



# Advanced AV Distribution Solutions

SYSTEM INSTALLATION & INTEGRATION

AV SIGNAL DISTRIBUTION & SWITCHING

AV CONVERSION, SCALLING & PROCESSING



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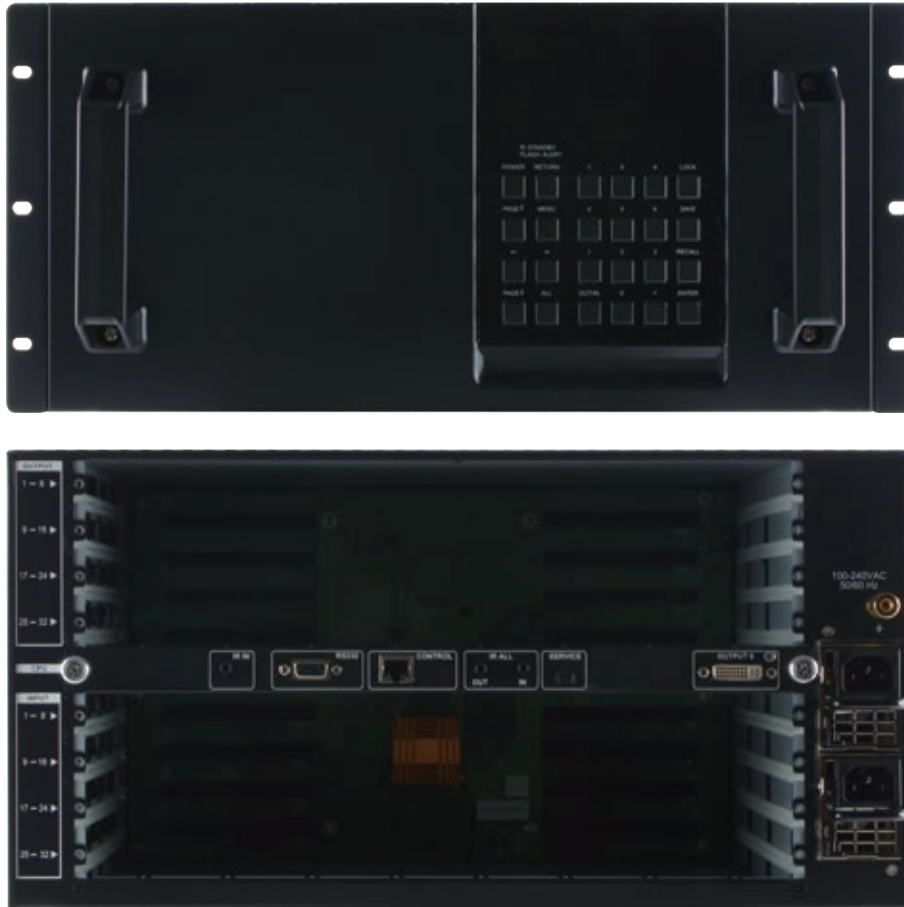
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# 32×32 Modular Matrix

CMSI-3232

Family Models • CMSI-88 • CMSI-1616



This matrix is designed to allow the switching and distribution of up to 32 source devices to up to 32 connected displays, either directly via HDMI, DVI or via CAT5e/6/7 outputs to compatible receivers, providing control options (dependent on module configuration). Providing unparalleled levels of flexibility, with an advanced modular design these models can be setup in a wide variety of combinations allowing users the ability to tailor the matrix to their requirements by simply adding or removing the input or output modules as required.

This matrix is supplied with dual removable internal PSU's which allow for easy inspection and maintenance with zero down time. Also included is a DVI output for local monitoring of the output allowing installers to easily monitor, test, and configure the Inputs and Outputs on installation. In addition, this matrix also features IP control allowing users to access and control the matrix remotely and also allow additional options for integration of third-party control systems.

- DVI 1.0 compatible and HDCP 1.x compliant
- Interchangeable input and output modules
- Input and output module types can be mixed and added in multiples of 8 from 8×8 (1 input module, 1 output module) up to 32×32 (4 input modules, 4 output modules) with HDMI, DVI, CAT5e/6/7 and VGA (input only) connection types
- Supports a wide range of PC and HDTV resolutions from VGA to WUXGA and 480i to 1080p@60Hz and 4K@60Hz (YUV 4:2:0)
- Supports passthrough of all standard digital audio formats: LPCM 2.0/5.1/7.1, Bitstream, and HD Bitstream
- Supports control of the matrix via on-panel, RS-232, Telnet and WebGUI
- Supports 10 available preset settings
- Support 3 EDID modes: Standard, Dynamic and Manual
- Dual removal power supply units
- Supports HDMI cable input and output lengths of up to 15m each way (1080p@8-bit), 10m (1080p@12-bit) or 5m (4K@60Hz, YUV 4:2:0)
- Supports CAT5e/6/7 cable input and output lengths of up to 100m (1080p@8-bit/12-bit) or 70m (4K@60Hz, YUV 4:2:0) dependent on board capabilities

## 8-Port HDBaseT Input & Output Modules

CIN-8CV-5PLAY & COUT-8CV-5PLAY

Family Models • COUT-8CVL-3PLAY • COUT-8CV-4PLAY



Model	Inputs	Outputs	Max. Resolution	3D	HD Audio	LAN	IR	RS-232	PoH/PoC	HDCP
CIN-8CV-5PLAY	8×CAT5e/6/7	-	4K@50/60 (4:2:0)	Yes	Yes	Yes	Yes	Yes	24V	1.x
COUT-8CV-5PLAY	-	8×CAT5e/6/7	4K@50/60 (4:2:0)	Yes	Yes	Yes	Yes	Yes	24V	1.x
COUT-8CV-4PLAY	-	8×CAT5e/6/7	4K@50/60 (4:2:0)	Yes	Yes	-	Yes	Yes	24V	1.x
COUT-8CVL-3PLAY	-	8×CAT5e/6/7	4K@50/60 (4:2:0)	Yes	Yes	-	Yes	Yes	-	1.x

## 8-Port HDMI Input & Output Modules

CIN-8HS4K & COUT-8HS4K

Family Models • CIN-8HS • COUT-8HS



Model	Inputs	Outputs	Max. Resolution	3D	HD Audio	LAN	IR	RS-232	PoH/PoC	HDCP
CIN-8HS4K	8×HDMI	-	4K@50/60 (4:2:0)	Yes	Yes	-	-	-	-	1.x
CIN-8HS	8×HDMI	-	1080p@50/60	Yes	Yes	-	-	-	-	1.x
COUT-8HS4K	-	8×HDMI	4K@50/60 (4:2:0)	Yes	Yes	-	-	-	-	1.x
COUT-8HS	-	8×HDMI	1080p@50/60	Yes	Yes	-	-	-	-	1.x

## 8-Port DVI Input & Output Modules

CIN-8DS & COUT-8DS



Model	Inputs	Outputs	Max. Resolution	3D	HD Audio	LAN	IR	RS-232	PoH/PoC	HDCP
CIN-8DS	8×DVI	-	1080p@50/60	Yes	Yes	-	-	-	-	1.x
COUT-8DS	-	8×DVI	1080p@50/60	Yes	Yes	-	-	-	-	1.x

## 8-Port VGA Input Module

CIN-8VGA



Model	Inputs	Outputs	Max. Resolution	3D	HD Audio	LAN	IR	RS-232	PoH/PoC	HDCP
CIN-8VGA	8×VGA	-	WUXGA@60 (RB)	-	-	-	-	-	-	-

# 16×16 SDI Modular Matrix

CMSDI-1616

Family Models • CMSDI-1616S



This matrix can switch and distribute up to sixteen SDI sources to any sixteen SDI sinks, either directly via SDI or via HDMI outputs to compatible displays, providing bandwidth up to 2.970Gbps & 2.970/1.001Gbps for 3G-SDI video support. In addition, this matrix features IP control (Telnet & WebGUI) allowing users to access and control the matrix remotely.

- Interchangeable input and output modules
- Input and output module types can be mixed and added in multiples of 4 from 4×4 (1 input module, 1 output module) up to 16×16 (4 input modules, 4 output modules) with SDI and HDMI (output only) connection types
- Supports SMPTE 259M-C@270Mbps for SD-SDI signal
- Supports SMPTE 292M@1.485Gbps & 1.485/1.001Gbps for HD-SDI signal
- Supports SMPTE 424M/425M-A@2.970Gbps & 2.970/1.001Gbps for 3G-SDI signal
- Supports audio sampling rate at 48kHz
- Supports distances up to 250m for SD-SDI signal, 200m for HD-SDI signal, and 100m for 3G-SDI signal
- 3U rack mountable design

## SDI Input & Output Modules

CIN-4S



COUT-4S



## HDMI & SDI Output Module

COUT-2H2S


**HDMI®**  
HIGH-DEFINITION MULTIMEDIA INTERFACE

Model	Inputs	Outputs	Max. Resolution	3D	HD Audio	LAN	IR	RS-232	PoH/PoC	HDCP
CIN-4S	4×SDI	-	SMPTE 424M/425M-A	-	-	-	-	-	-	-
COUT-4S	-	4×SDI	SMPTE 424M/425M-A	-	-	-	-	-	-	-
COUT-2H2S	-	2×HDMI, 2×SDI	SMPTE 424M/425M-A	-	-	-	-	-	-	-

# 10x10 HDMI/HDBaseT 4K Matrix with Audio Matrixing

CPLUS-1082CVEA

Family Model • CPLUS-1082CVAL



This matrix supports routing and transmission of video (resolutions up to 4K@60Hz, 4:4:4 & HDCP 2.2) and audio (multi-channel digital/stereo analog) while providing flexible control via IR, RS-232, Telnet or WebGUI. As many as ten HD sources may be routed to any of eight destinations via a single CAT5e/6/7 cable (up to 100m at 1080p@60Hz or up to 60m at 4K@30Hz). The two HDMI outputs support transmission of 4K UHD HDMI sources (up to 4K@60Hz, 4:4:4) from any HDMI input or they can mirror any of the HDBaseT outputs for local monitoring. 3D video is also supported when compatible sources and displays are connected. This matrix supports passing 7.1 channel LPCM digital audio as well as advanced Bitstream and HD Bitstream audio formats. Additionally, eight analog audio outputs are available to provide stereo breakout audio from the associated HDBaseT output (LPCM 2.0 sources only).

Beyond basic video routing, this matrix also incorporates an independent audio matrix with fourteen audio outputs and ten audio inputs. Offering discrete audio routing, insertion and extraction, this matrix makes it possible to have multiple audio zones within your installation. Additionally the matrix contains three independent audio mixers allowing for applications such as adding music or a voice over to existing video. This matrix supports the Optical Audio Return (OAR) channel feature, found on compatible HDBaseT receivers, allowing optical audio sources connected to those receivers to be sent back to the matrix unit.

LAN support allows your 100BaseT network to be extended to smart TVs or game consoles. Internally generated test patterns (up to 4K UHD resolutions) are provided to assist with setup, providing a simple way to verify both matrix and sink functionality. The 48V PoH (Power over HDBaseT) function can power compatible receivers, providing greater flexibility in your installations. Control is via manual selection buttons, WebGUI, Telnet, RS-232 or IR remote.

## Video

- DVI 1.0 compatible and HDCP 2.2/1.4 compliant
- Routes 10 HDMI sources to 10 displays using 8 HDBaseT outputs and 2 independent or mirrored HDMI outputs
- HDBaseT 5Play™ convergence: High-definition audio/video, 100BaseT Ethernet, PoH (Power over HDBaseT), and control (Bidirectional IR & RS-232 passthrough)
- Supported HDBaseT resolutions: VGA~WUXGA, 480i~1080p, 4K@24/25/30Hz (RGB, YUV 4:4:4 & YUV 4:2:2) & 4K@60Hz (YUV 4:2:0) dependent upon the output display's EDID settings
- Supports HDMI output resolutions up to 4K@60Hz (RGB/YUV 4:4:4)
- Supports automatic 4K@60Hz RGB/YUV 4:4:4 to YUV 4:2:0 conversion for HDBaseT outputs
- 4K@30Hz signals can be transmitted up to 60m via CAT5e/6 and up to 100m via CAT6a/7

## Audio

- Supports passthrough of all standard digital audio formats: LPCM 2.0/5.1/7.1, Bitstream, and HD Bitstream
- Supports audio matrix functionality enabling full audio management of the system including HDBaseT audio selection, fully independent audio-only zones and HDMI audio embedding and de-embedding (LPCM only)
- Supports Digital to Analog Conversion (DAC) and Analog to Digital Conversion (ADC) for audio integration
- Supports integrated audio over CAT inputs and outputs for transmission up to 300m
- Supports volume, treble, bass, and audio delay for lip-sync (up to 230ms) on analog audio outputs and mute on all outputs
- HDBaseT outputs with Optical Audio Return (OAR) support
- Audio mixer functionality (three mixers in total)

## Control

- Advanced internal and external EDID management with 4 sets of configurable EDID settings
- Internal test pattern generation for self and sink testing
- Capable of generating test signals up to 4K@60Hz
- Bidirectional IR support over HDBaseT
- Control via front panel controls, Ethernet (Telnet & WebGUI), RS-232 & IR remote
- 2U rack mounted design

# 6x8 HDMI/HDBaseT 4K Matrix with Audio Matrixing



CPLUS-662CVEA

Family Model • CPLUS-662CVAL



This matrix supports routing and transmission of video (resolutions up to 4K@60Hz, 4:4:4 & HDCP 2.2) and audio (multi-channel digital/stereo analog) while providing flexible control via IR, RS-232, Telnet or WebGUI. As many as six HD sources may be routed to any of six destinations via a single CAT5e/6/7 cable (up to 100m at 1080p or up to 60m at 4K@30Hz). The two HDMI outputs support transmission of 4K UHD HDMI sources (up to 4K@60Hz, 4:4:4) from any HDMI input or they can mirror any of the HDBaseT outputs for local monitoring. 3D video is also supported when compatible sources and displays are connected. This matrix supports passing 7.1 channel LPCM digital audio as well as advanced Bitstream and HD Bitstream audio formats. Additionally, six analog audio outputs are available to provide stereo breakout audio from the associated HDBaseT output (LPCM 2.0 sources only).

Beyond basic video routing, this matrix also incorporates an independent audio matrix with eight audio outputs and four audio inputs. Offering discrete audio routing, insertion and extraction, this matrix makes it possible to have multiple audio zones within your installation. Additionally the matrix contains three independent audio mixers allowing for applications such as adding music or a voice over to existing video. This matrix supports the Optical Audio Return (OAR) channel feature, found on compatible HDBaseT receivers, allowing optical audio sources connected to those receivers to be sent back to the matrix unit.

LAN support allows your 100BaseT network to be extended to smart TVs or game consoles. Internally generated test patterns (up to 4K UHD resolutions) are provided to assist with setup, providing a simple way to verify both matrix and sink functionality. The 48V PoH (Power over HDBaseT) function can power compatible receivers, providing greater flexibility in your installations. Control is via manual selection buttons, WebGUI, Telnet, RS-232 or IR remote.

## Video

- HDCP 2.2/1.4 compliant
- Routes 6 HDMI sources to 8 displays using 6 HDBaseT outputs and 2 independent or mirrored HDMI outputs
- HDBaseT 5Play™ convergence: High-definition audio/video, 100BaseT Ethernet, PoH (Power over HDBaseT), and control (Bidirectional IR & RS-232 passthrough)
- Supported HDBaseT resolutions: VGA~WUXGA, 480i~1080p, 4K@24/25/30Hz (RGB, YUV 4:4:4 & YUV 4:2:2) & 4K@60Hz (YUV 4:2:0) dependent upon the output display's EDID settings
- Supports HDMI output resolutions up to 4K@60Hz (RGB/YUV 4:4:4)
- Supports automatic 4K@60Hz RGB/YUV 4:4:4 to YUV 4:2:0 conversion for HDBaseT outputs
- 4K@30Hz signals can be transmitted up to 60m via CAT5e/6 and up to 100m via CAT6a/7

## Audio

- Supports passthrough of all standard digital audio formats: LPCM 2.0/5.1/7.1, Bitstream, and HD Bitstream
- Supports audio matrix functionality enabling full audio management of the system including HDBaseT audio selection, fully independent audio-only zones and HDMI audio embedding and de-embedding (LPCM only)
- Supports Digital to Analog Conversion (DAC) and Analog to Digital Conversion (ADC) for audio integration
- Supports volume, treble, bass, and audio delay for lip-sync (up to 230ms) on analog audio outputs and mute on all outputs
- HDBaseT outputs with Optical Audio Return (OAR) support
- Audio mixer functionality (three mixers in total)

## Control

- Advanced internal and external EDID management with 4 sets of configurable EDID settings
- Internal test pattern generation for self and sink testing
- Capable of generating test signals up to 4K@60Hz
- Bidirectional IR support over HDBaseT
- Control via front panel controls, Ethernet (Telnet & WebGUI), RS-232 & IR remote
- 2U rack mounted design

# 4×6 HDMI/HDBaseT 4K Matrix with Audio Matrixing



CPLUS-442CVEA

Family Model • CPLUS-442CVAL



This matrix supports routing and transmission of video (resolutions up to 4K@60Hz, 4:4:4 & HDCP 2.2) and audio (multi-channel digital/stereo analog) while providing flexible control via IR, RS-232, Telnet or WebGUI. As many as four HD sources may be routed to any of four destinations via a single CAT5e/6/7 cable (up to 100m at 1080p or up to 60m at 4K@30Hz). The two HDMI outputs support transmission of 4K UHD HDMI sources (up to 4K@60Hz, 4:4:4) from any HDMI input or they can mirror any of the HDBaseT outputs for local monitoring. 3D video is also supported when compatible sources and displays are connected. This matrix supports passing 7.1 channel LPCM digital audio as well as advanced Bitstream and HD Bitstream audio formats. Additionally, four analog audio outputs are available to provide stereo breakout audio from the associated HDBaseT output (LPCM 2.0 sources only).

Beyond basic video routing, this matrix also incorporates an independent audio matrix with six audio outputs and four audio inputs. Offering discrete audio routing, insertion and extraction, this matrix makes it possible to have multiple audio zones within your installation. Additionally the matrix contains three independent audio mixers allowing for applications such as adding music or a voice over to existing video. This matrix supports the Optical Audio Return (OAR) channel feature, found on compatible HDBaseT receivers, allowing optical audio sources connected to those receivers to be sent back to the matrix unit.

LAN support allows your 100BaseT network to be extended to smart TVs or game consoles. Internally generated test patterns (up to 4K UHD resolutions) are provided to assist with setup, providing a simple way to verify both matrix and sink functionality. The 48V PoH (Power over HDBaseT) function can power compatible receivers, providing greater flexibility in your installations. Control is via manual selection buttons, WebGUI, Telnet, RS-232 or IR remote.

## Video

- HDCP 2.2/1.4 compliant
- Routes 4 HDMI sources to 6 displays using 4 HDBaseT outputs and 2 independent or mirrored HDMI outputs
- HDBaseT 5Play™ convergence: High-definition audio/video, 100BaseT Ethernet, PoH (Power over HDBaseT), and control (Bidirectional IR & RS-232 passthrough)
- Supported HDBaseT resolutions: VGA--WUXGA, 480i-1080p, 4K@24/25/30Hz (RGB, YUV 4:4:4 & YUV 4:2:2) & 4K@60Hz (YUV 4:2:0) dependent upon the output display's EDID settings
- Supports HDMI output resolutions up to 4K@60Hz (RGB/YUV 4:4:4)
- Supports automatic 4K@60Hz RGB/YUV 4:4:4 to YUV 4:2:0 conversion for HDBaseT outputs
- 4K@30Hz signals can be transmitted up to 60m via CAT5e/6 and up to 100m via CAT6a/7

## Audio

- Supports passthrough of all standard digital audio formats: LPCM 2.0/5.1/7.1, Bitstream, and HD Bitstream
- Supports audio matrix functionality enabling full audio management of the system including HDBaseT audio selection, fully independent audio-only zones and HDMI audio embedding and de-embedding (LPCM only)
- Supports Digital to Analog Conversion (DAC) and Analog to Digital Conversion (ADC) for audio integration
- Supports volume, treble, bass, and audio delay for lip-sync (up to 230ms) on analog audio outputs and mute on all outputs
- HDBaseT outputs with Optical Audio Return (OAR) support
- Audio mixer functionality (three mixers in total)

## Control

- Advanced internal and external EDID management with 4 sets of configurable EDID settings
- Internal test pattern generation for self and sink testing
- Capable of generating test signals up to 4K@60Hz
- Bidirectional IR support over HDBaseT
- Control via front panel controls, Ethernet (Telnet & WebGUI), RS-232 & IR remote
- 1U rack mounted design

## 8x8 HDMI/HDBaseT 4K Matrix

CMPRO-UA8H8CVE

Family Models • CMPRO-UA8H8CVPL • CMPRO-U8H8CVE • CMPRO-U8H8CVPL



This matrix supports the transmission of video (resolutions up to 4K@30Hz & HDCP 2.2 compliant), multi-channel digital audio, and control via IR, RS-232, Telnet or WebGUI from eight HDMI sources to eight HDBaseT outputs over a single CAT5e/6/7 cable (up to 100m at 1080p@60Hz & 70m at 4K@30Hz) for each output. It supports passing 7.1 channel LPCM digital audio as well as standard Bitstream and HD Bitstream audio formats. 3D video is also supported when compatible sources and displays are connected. Additionally, the LAN connectivity will allow a 100BaseT network to be served to smart TVs or games consoles. The 24V PoC (Power over Cable) function can power compatible receivers, providing greater flexibility in your installations.

- Supports resolutions up to WUXGA@60Hz (RB) and 4K@30Hz dependent upon the display's EDID settings
- Supports passthrough of all standard digital audio formats: LPCM 2.0/5.1/7.1, Bitstream, and HD Bitstream
- Supports bidirectional IR passthrough from the source and display locations
- Supports LAN serving to Ethernet-enabled devices
- Supports 24V PoC to compatible receivers
- Supports external and internal EDID settings
- Supports control of the matrix via RS-232, IR remote, on-panel buttons, and IP control (Telnet/WebGUI)
- 2U size design

## 4x4 HDMI/HDBaseT 4K Matrix

CMPRO-U4H4CVE

Family Model • CMPRO-U4H4CVPL



This matrix supports the transmission of video (resolutions up to 4K@30Hz & HDCP 1.x compliant), multi-channel digital audio, and control via IR, RS-232, Telnet or WebGUI from four HDMI sources to four HDBaseT outputs over a single CAT5e/6/7 cable (up to 100m at 1080p@60Hz & 70m at 4K@30Hz) for each output. It supports passing 7.1 channel LPCM digital audio as well as standard Bitstream and HD Bitstream audio formats. 3D video is also supported when compatible sources and displays are connected. Additionally, the LAN connectivity will allow a 100BaseT network to be served to smart TVs or games consoles. The 24V PoC (Power over Cable) function can power compatible receivers, providing greater flexibility in your installations.

- Supports resolutions up to WUXGA@60Hz (RB) and 4K@30Hz dependent upon the display's EDID settings
- Supports passthrough of all standard digital audio formats: LPCM 2.0/5.1/7.1, Bitstream, and HD Bitstream
- Supports bidirectional IR passthrough from the source and display locations
- Supports LAN serving to Ethernet-enabled devices
- Supports 24V PoC to compatible receivers
- Supports external and internal EDID settings
- Supports control of the matrix via RS-232, IR remote, on-panel buttons, and IP control (Telnet/WebGUI)
- 1U size design

## 8x8 HDMI/HDBaseT Matrix (Supports 48V PoH)

CMSI-18H8CVE



This matrix supports the transmission of video (resolutions up to 1080p@60Hz & HDCP 1.x compliant), multi-channel digital audio, and control via IR, RS-232, Telnet or WebGUI from eight HDMI sources to eight HDBaseT outputs over a single CAT5e/6/7 cable (up to 100m) for each output. It supports passing 7.1 channel LPCM digital audio as well as standard Bitstream and HD Bitstream audio formats. 3D video is also supported when compatible sources and displays are connected. Additionally, the LAN connectivity will allow a 100BaseT network to be served to smart TVs or games consoles. The 48V PoH (Power over HDBaseT) function can power compatible receivers, providing greater flexibility in your installations.

- Supports resolutions up to WUXGA@60Hz (RB) and 1080p@60Hz dependent upon the display's EDID settings
- Supports passthrough of all standard digital audio formats: LPCM 2.0/5.1/7.1, Bitstream, and HD Bitstream
- Supports bidirectional IR passthrough from the source and display locations
- Supports LAN serving to Ethernet-enabled devices
- Supports 48V PoH to compatible receivers
- Supports external and internal EDID settings
- Supports control of the matrix via RS-232, IR remote, on-panel buttons, and IP control (Telnet/WebGUI)
- 2U size design

## 8x8 HDMI/HDBaseT Matrix

CMSI-8H8CVE

Family Models • CMSI-8H8CV • CMSI-8H8CVL



This matrix supports the transmission of video (resolutions up to 1080p@60Hz & HDCP 1.x compliant), multi-channel digital audio, and control via IR, RS-232, Telnet or WebGUI from eight HDMI sources to eight HDBaseT outputs over a single CAT5e/6/7 cable (up to 100m) for each output. It supports passing 7.1 channel LPCM digital audio as well as standard Bitstream and HD Bitstream audio formats. 3D video is also supported when compatible sources and displays are connected. Additionally, the LAN connectivity will allow a 100BaseT network to be served to smart TVs or games consoles. The 24V PoC (Power over Cable) function can power compatible receivers, providing greater flexibility in your installations.

- Supports resolutions up to WUXGA@60Hz (RB) and 1080p@60Hz dependent upon the display's EDID settings
- Supports passthrough of all standard digital audio formats: LPCM 2.0/5.1/7.1, Bitstream, and HD Bitstream
- Supports bidirectional IR passthrough from the source and display locations
- Supports LAN serving to Ethernet-enabled devices
- Supports 24V PoC to compatible receivers
- Supports external and internal EDID settings
- Supports control of the matrix via RS-232, IR remote, on-panel buttons, and IP control (Telnet/WebGUI)
- 2U size design

## 4x8 HDMI/HDBaseT Matrix

CMSI-48E



This matrix enables the switching and distribution of four HDMI sources, allowing independent routing to any of its eight outputs. Designed for the maximum of flexibility in local and remote connectivity that is required in AV system integration, this matrix is equipped with four HDMI outputs and four CAT5e/6/7 outputs which benefit from the latest HDBaseT features which include the transmission of high-definition video and audio, bidirectional IR & RS-232 passthrough, 24V PoC (Power over Cable), and LAN serving to compatible HDBaseT receivers over a single industry standard CAT5e/6/7 cable (for each output) up to 100 meters. It has the added benefit of control via IR remote control, RS-232, and IP (Telnet/WebGUI), with all information including system status presented on its comprehensive LCD display.

- Supports HDMI 3D features for compatible sources and displays
- Supports PC resolutions of VGA~WUXGA and HDTV resolutions of 480i~1080p dependent upon the display's resolution capabilities
- Supports passthrough of all standard digital audio formats: LPCM 2.0/5.1/7.1, Bitstream, and HD Bitstream
- Supports bidirectional IR passthrough from the source and display locations
- Supports 24V PoC to compatible receivers
- Supports LAN serving to Ethernet-enabled devices
- Supports distances up to 100m for industry standard CAT5e/6/7 cables
- Supports selection of Standard (Fixed) or TV (Downstream) EDID settings
- 1U size design

## 4x6 HDMI/HDBaseT Matrix

CMSI-46PL



This matrix enables the switching and distribution of four HDMI sources, allowing independent routing to any of its six outputs. Designed for the maximum of flexibility in local and remote connectivity that is required in AV system integration, this model is equipped with two HDMI outputs and four CAT5e/6/7 outputs which benefit from the latest HDBaseT features which include the transmission of high-definition video and audio, bidirectional IR & RS-232 passthrough and 24V PoC (Power over Cable) to compatible HDBaseT receivers over a single industry standard CAT5e/6/7 cable (for each output) up to 60 meters. It has the added benefit of control via IR remote control, RS-232, IP/Telnet, with all information including system status presented on its comprehensive LCD display.

- Supports HDMI 3D features for compatible sources and displays
- Supports PC resolutions of VGA~WUXGA and HDTV resolutions of 480i~1080p dependent upon the display's resolution capabilities
- Supports passthrough of all standard digital audio formats: LPCM 2.0/5.1/7.1, Bitstream, and HD Bitstream
- Supports bidirectional IR passthrough from the source and display locations
- Supports 24V PoC to compatible receivers
- Supports distances up to 60m for industry standard CAT5e/6/7 cables
- Supports selection of Standard (Fixed) or TV (Downstream) EDID settings
- 1U size design

## 4x4 HDMI/HDBaseT Matrix

CMSI-4H4CV

Family Model • CMSI-4H4CVL



This matrix supports the transmission of video (resolutions up to 1080p@60Hz & HDCP 1.x compliant), multi-channel digital audio, and control via IR, RS-232, Telnet or WebGUI from four HDMI sources to four HDBaseT outputs over a single CAT5e/6/7 cable (up to 100m) for each output. It supports passing 7.1 channel LPCM digital audio as well as standard Bitstream and HD Bitstream audio formats. 3D video is also supported when compatible sources and displays are connected. The 24V PoC (Power over Cable) function can power compatible receivers, providing greater flexibility in your installations.

- Supports resolutions up to WUXGA@60Hz (RB) and 1080p@60Hz dependent upon the display's EDID settings
- Supports passthrough of all standard digital audio formats: LPCM 2.0/5.1/7.1, Bitstream, and HD Bitstream
- Supports bidirectional IR passthrough from the source and display locations
- Supports 24V PoC to compatible receivers
- Supports external and internal EDID settings
- Supports control of the matrix via RS-232, IR remote, on-panel buttons, and IP control (Telnet/WebGUI)
- 2U size design

## 4x4 HDMI/HDBaseT Matrix (Plus 2 Mirrored HDMI Outputs)

CMSI-424E

Family Model • CMSI-424L



This matrix supports the transmission of video (resolutions up to 1080p@60Hz & HDCP 1.1), multi-channel digital audio and control via IR, RS-232, Telnet or WebGUI from four HDMI sources to four HDBaseT outputs over a single CAT5e/6/7 cable (up to 100m) for each output. Output A and C feature additional mirrored HDMI outputs for greater flexibility in installations. It supports passing 7.1 channel LPCM digital audio as well as standard Bitstream and HD Bitstream audio formats. 3D video is also supported when compatible sources and displays are connected.

Additionally, the 24V PoC (Power over Cable) function means that compatible receivers do not need their own separate power supplies and the LAN serving function allows devices such as smart TVs or game consoles to be connected to the Network/Internet. This matrix has the added benefit of control via IR remote control, RS-232, IP/Telnet, with all information including system status presented on its comprehensive LCD display.

- Supports simultaneous HDMI and CAT5e/6/7 display on output A and C
- Supports HDMI 3D features for compatible sources and displays
- Supports PC resolutions of VGA~WUXGA and HDTV resolutions of 480i~1080p dependent upon the display's resolution capabilities
- Supports passthrough of all standard digital audio formats: LPCM 2.0/5.1/7.1, Bitstream, and HD Bitstream
- Supports bidirectional IR passthrough from the source and display locations
- Supports 24V PoC to compatible receivers
- Supports LAN serving to Ethernet-enabled devices
- Supports distances up to 100m for industry standard CAT6/7 cables
- Supports selection of Standard (Fixed) or TV (Downstream) EDID settings
- 1U size design

## 4×4 HDMI 6G Matrix (Plus USB Power Ports)

CPLUS-V4H4HP



**HDMI**  
HIGH-DEFINITION MULTIMEDIA INTERFACE



This matrix provides the ability to connect up to four 6G HDMI sources and up to four 6G HDMI displays and freely switch between them. This unit comes with full support for 4K UHD resolutions up to 4K@60Hz (4:4:4, 8-bit) as well as support for 48-bit Deep Color, HDR (High Dynamic Range), HD audio and other features defined by the HDMI 2.0a specification. With a comprehensive EDID management feature that includes the ability to select between built-in default EDID, EDID copied from connected sink devices, as well as a configurable EDID, this matrix can solve many interconnectivity problems.

This matrix also features four USB ports which supply up to 5V/1A power for use with connected optical fiber or AOC (Active Optical Cable) fiber cable extenders. By using these specialized cables your HDMI content can be extended much further than would be possible with normal HDMI cables. The built-in OSD has the ability to display user editable general information.

- DVI 1.0 compatible and HDCP 2.2/1.4 compliant
- Four 6G HDMI inputs can be matrixed to four 6G HDMI displays
- Supports TV/PC resolutions up to 4K (3840×2160@50/60Hz & 4096×2160@50/60Hz) and WUXGA (RB)
- Supports a maximum data rate up to 18Gbps (600MHz) with Deep Color support up to 1080p, 48-bit
- Supports passthrough of all standard digital audio formats: LPCM 2.0/5.1/7.1, Bitstream, and HD Bitstream
- Supports six internal EDIDs, four external EDIDs copied from connected devices, and four user generated EDIDs
- Four USB ports to supply 5V/1A power to optical fiber and AOC fiber extension cables
- OSD with user customizable information text
- Intuitive control interface including Telnet, WebGUI, OSD, IR remote and RS-232
- Easy firmware update via USB thumb drive in the field

## 4×2 HDMI 6G Mountable Matrix

CDPW-V4H2HP

**Family Model** • CDPW-V2H4HP

**HDMI**  
HIGH-DEFINITION MULTIMEDIA INTERFACE

This matrix is an advanced HDMI solution designed for your 4K UHD signal distribution needs. It allows switching between four 18Gbps (600MHz) HDMI inputs that will be output simultaneously to two 18Gbps (600MHz) HDMI outputs. This unit has support for the latest HDMI features including support for resolutions up to 4096×2160@60Hz (4:4:4, 8-bit), 48-bit Deep Color up to 1080p@60Hz, HD Bitstream audio, and more. The unit can be easily operated via front-panel buttons, RS-232, Telnet, WebGUI, and IR remote.

- HDMI with 18Gbps (600MHz) 4K UHD support
- DVI 1.0 compatible and HDCP 2.2/1.4 compliant
- 4 HDMI inputs and 2 duplicated HDMI outputs
- Supports HD resolutions up to 3840×2160@60Hz (4:4:4, 8-bit) & 4096×2160@60Hz (4:4:4, 8-bit)
- Supports Deep Color up to 1080p@60Hz, 48-bit
- Supports passthrough of LPCM 2.0/5.1/7.1, Bitstream, and HD Bitstream audio formats
- Control via front-panel buttons, Telnet, WebGUI, RS-232, or IR remote



## 4×4 HDMI 6G Matrix



CPLUS-V4H4H

Last Gen. Model • CMPRO-U4H4HS



This matrix allows the user to route up to four 6G HDMI input signals to any of four 6G HDMI outputs. It supports 4K@60Hz (YUV 4:4:4), 48-bit Deep Color, HDR (High Dynamic Range), HD audio formats and other features defined by the HDMI 2.0 specification. Pre-defined internal EDID and external EDID options are available for EDID management. This matrix provides intuitive front panel controls as well as RS-232, Telnet, WebGUI, and IR remote control options.

- DVI 1.0 compatible and HDCP 2.2/1.4 compliant
- Supports the matrix routing of four 6G HDMI inputs to four 6G HDMI outputs
- Supports HDR (High Dynamic Range) features for compatible sources and displays
- Supports HD resolutions up to 4096×2160@60Hz (4:4:4, 8-bit)
- Maximum data rate up to 18Gbps (600MHz) with Deep Color support up to 48-bit at 1080p
- Supports passthrough of all standard digital audio formats: LPCM 2.0/5.1/7.1, Bitstream, and HD Bitstream
- Supports EDID management via five pre-defined internal EDID options and two external EDID options
- Multiple control interfaces including RS-232, Telnet, WebGUI, and IR remote control

## 4×2 HDMI 6G Matrix



CPLUS-V4H2HP

Last Gen. Model • CMPRO-4H2H



This matrix allows the user to route up to four 6G HDMI input signals to any of two 6G HDMI outputs. It supports 4K@60Hz (YUV 4:4:4), 48-bit Deep Color, HDR (High Dynamic Range), HD audio formats and other features defined by the HDMI 2.0 specification. Pre-defined internal EDID and external EDID options are available for EDID management. This matrix provides intuitive front panel controls as well as RS-232, Telnet, WebGUI, and IR remote control options.

- DVI 1.0 compatible and HDCP 2.2/1.4 compliant
- Supports the matrix routing of four 6G HDMI inputs to two 6G HDMI outputs
- Supports HDR (High Dynamic Range) features for compatible sources and displays
- Supports HD resolutions up to 4096×2160@60Hz (4:4:4, 8-bit)
- Maximum data rate up to 18Gbps (600MHz) with Deep Color support up to 48-bit at 1080p
- Supports passthrough of all standard digital audio formats: LPCM 2.0/5.1/7.1, Bitstream, and HD Bitstream
- Supports EDID management via five pre-defined internal EDIDs and two external EDID options
- Multiple control interfaces including RS-232, Telnet, WebGUI, and IR remote control

## 8×8 HDMI 4K Matrix

CMPRO-UA8H8HS

Last Gen. Model • CMSI-8H8HS



This matrix supports the transmission of video (resolutions up to 4K@30Hz & HDCP 2.2 compliant), multi-channel digital audio, and control via IR, RS-232, Telnet or WebGUI from eight HDMI sources to eight HDMI outputs. It supports passing 7.1 channel LPCM digital audio as well as standard Bitstream and HD Bitstream audio formats. 3D video is also supported when compatible sources and displays are connected.

- Supports resolutions up to WUXGA@60Hz (RB) and 4K@30Hz dependent upon the display's EDID settings
- Supports passthrough of all standard digital audio formats: LPCM 2.0/5.1/7.1, Bitstream, and HD Bitstream
- Supports external and internal EDID settings
- Supports control of the matrix via RS-232, IR remote, on-panel buttons, and IP control (Telnet/WebGUI)
- 2U size design

## 4×4 HDMI 4K Matrix with Audio Matrixing

CDPS-U4H4HSA



This matrix allows an HDMI signal from any of its 4 inputs to be routed to any or all of its 4 HDMI outputs while also allowing the audio source to be selected for each output independently. Additional Optical and Audio-CAT audio inputs and outputs expand the matrix audio/video mixing and routing options. Fast switching technology greatly reduces the time required to switch between sources. This unit supports 4K UHD (300MHz/9Gbps), 3D, 36-bit Deep Color, HD audio and other features defined by the HDMI specification. Management of input/output routing can be controlled easily by use of the front-panel buttons, IR remote control, RS-232, Telnet or WebGUI.

- HDMI with 4K UHD (300MHz/9Gbps) and 3D support
- DVI 1.0 compatible and HDCP 1.x compliant
- Supports HDMI resolutions up to 4K@60Hz (YUV 4:2:0, 8-bit)
- Supports data rates up to 300MHz/9Gbps and Deep Color up to 36-bit at 1080p@60Hz
- 4 HDMI inputs and 4 HDMI outputs

- Display any of 4 high-definition sources on up to 4 HDTV displays simultaneously with fast switching support
- Two independent Audio-CAT input/output ports providing audio extension up to 300M/984ft with a sampling rate of 48kHz
- HDMI audio, Optical audio and Audio-CAT matrixing support
- Supports muting individual outputs for both video and audio
- Supports LPCM 2.0 audio with sampling rates up to 192kHz
- Supports storing and recalling multiple matrix routing presets
- Supports per-input EDID assignment or using a common EDID for all inputs
- Input ports support HDCP management modes to help with specific source compatibility issues
- Controllable via front panel buttons, RS-232, IR, Telnet, and WebGUI

## 10×2 HDMI 4K Matrix

CDPS-U10H2HFS



This matrix allows an HDMI signal from any of its 10 inputs to be routed to either or both of its 2 HDMI outputs simultaneously. Providing high performance passthrough of video/audio, this unit is capable of receiving and transmitting multiple signals up to 300MHz/9Gbps with no data loss. Fast switching technology greatly reduces the time required to switch between sources. This unit supports 4K UHD (300MHz/9Gbps), 3D, 36-bit Deep Color, HD audio and other features defined by the HDMI specification. Management of input/output routing can be controlled easily by use of the front-panel buttons, IR remote control, RS-232, Telnet or WebGUI.

- HDMI with 4K UHD (300MHz/9Gbps) and 3D support
- DVI 1.0 compatible and HDCP 1.x compliant
- Supports HDMI resolutions up to 4K@60Hz (YUV 4:2:0, 8-bit)
- Supports data rates up to 300MHz/9Gbps and Deep Color up to 36-bit at 1080p@60Hz
- 10 HDMI inputs and 2 HDMI outputs
- Display any of 10 high-definition sources on up to 2 HDTV displays simultaneously with fast switching support
- Supports passing LPCM 2.0/5.1/7.1, Bitstream, and HD Bitstream audio formats over the HDMI outputs
- Supports per-input EDID assignment or using a common EDID for all inputs
- Supports storing and recalling multiple matrix routing presets
- Input ports support HDCP management modes to help with specific source compatibility issues
- Controllable via front panel buttons, RS-232, IR, Telnet, and WebGUI

## 6×2 HDMI 4K Matrix (Integrated Preview Mode)

CDPS-UA6H2HFS

Last Gen. Model • CDPS-6H2HFS



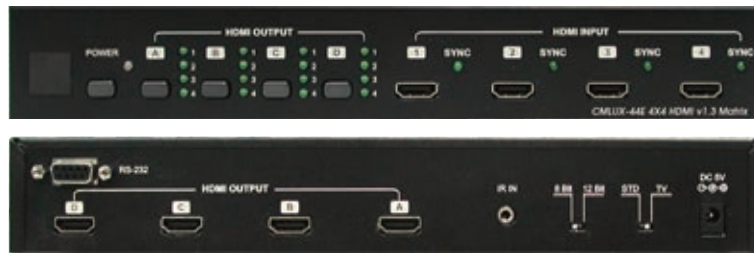
This matrix allows an HDMI signal from any of its 6 inputs to be routed to either or both of its 2 HDMI outputs simultaneously. Integrated "View All" and "Picture-in-Picture" (PiP) modes provide a way to easily monitor multiple sources simultaneously. Fast switching technology greatly reduces the time required to switch between sources. This unit supports 4K UHD (300MHz/9Gbps), 3D, 36-bit Deep Color, HD audio and other features defined by the HDMI specification. Management of input/output routing can be controlled easily by use of the front-panel buttons, IR remote control, RS-232, Telnet or WebGUI.

- HDMI with 4K UHD (300MHz/9Gbps) and 3D support
- DVI 1.0 compatible and HDCP 2.2/1.4 compliant
- Supports HDMI resolutions up to 4K@60Hz (YUV 4:2:0, 8-bit)
- Supports data rates up to 300MHz/9Gbps and Deep Color up to 36-bit at 1080p@60Hz
- 6 HDMI inputs and 2 HDMI outputs
- Display any of 6 high-definition sources on up to 2 HDTV

- displays simultaneously with fast switching support
- Special "Preview" mode supports "View All" (1 main video source and 5 sub video sources) and "PiP" (1 main video source and 1 sub video source) options
- Optical audio extraction
- Supports output of optical audio at sampling rates up to 192kHz
- Supports per-input EDID assignment or using a common EDID for all inputs
- Supports passing LPCM 2.0/5.1/7.1, Bitstream and HD Bitstream audio formats over the HDMI outputs
- Supports storing and recalling multiple matrix routing presets
- Input ports support HDCP management modes to help with specific source compatibility issues
- Controllable via front panel buttons, RS-232, IR, Telnet, and WebGUI

## 4×4 HDMI Matrix

CMLUX-44E



This matrix is the ideal solution for connecting all your HDMI devices, and thanks to the included remote this system gives you complete control over your media environment. Furthermore, the HDMI V1.3 Matrix can transfer Deep Color video and bit stream digital audio with maximum performance.

- DVI 1.0 compatible and HDCP 1.x compliant
- Supports Deep Color up to 36-bit (12-bit/color)
- Supports passthrough of LPCM 2.0/5.1/7.1, Bitstream, and HD Bitstream audio formats (32~192kHz sampling rates)
- Supports LED input source indicators for each output option
- Compatible with all HDMI sources and displays
- Supports a wide range of PC and HDTV resolutions from VGA to UXGA and 480i to 1080p
- Supports RS-232 control, IR remote controller, and IR extender
- HDMI cable distance test showed that with 1080p/8-bit & 12-bit resolution, the input/ output source(s) can be up to 15/15 meters away
- When the HDMI signal passes through the system it is Re-timed and level compensated to preserve signal
- Switchable EDID function for choosing EDID to display

## 4×4 HDMI Matrix

CMLUX-44S

**Family Models** • CMLUX-22S • CMLUX-24S • CMLUX-42S



This matrix provides the excellent solution for connecting all the devices and sources together for your convenience use, it also provides you a variety of choices on where to play your images with remote controller. Further, this unit can transfer Deep Color video and Bitstream digital audio with maximum performance.

- DVI 1.0 compatible and HDCP 1.x compliant
- Supports Deep Color up to 36-bit (12-bit/color)
- Supports passthrough of LPCM 2.0/5.1/7.1, Bitstream, and HD Bitstream audio formats (32~192kHz sampling rates)
- The HDMI input is compensated, clock/phase adjusted, and jitter eliminated so the output is a brand new standard HDMI signal
- Supports input source LED indicators on each output select
- Compatible with all HDMI sources and displays
- Supports a wide range of PC and HDTV resolutions from VGA to UXGA and 480i to 1080p
- Supports RS-232 control
- Supports IR remote control and IR extender
- Supports LPCM7.1 channels output from each independent HDMI ports
- HDMI cable distance test with 1080p/8bit resolution, the Input/ Output source can run up to 15/15 meters

## 8×8 HDMI Matrix (Plus Simultaneous Dual-CAT Outputs)

CMSI-8H8HC



This matrix has simultaneous HDMI and Dual-CAT6 outputs that connect 8 HDMI sources to 16 displays. It features 8 HDMI outputs and each HDMI output is mirrored to provide a Dual-CAT-Cable output which runs simultaneously. Connect a compatible receiver to each of the Dual-CAT-Cable outputs to extend the HDMI signal up to 45 meters (1080p, 8-bit) for multi-room connectivity.

This matrix supports Deep Color, high-definition audio, and 3D signal compatibility. This matrix also can be controlled via the supplied IR remote control, RS-232, Telnet, WebGUI or by using the selection buttons on the front panel.

- HDCP 1.x compliant
- Supports HDMI 3D passthrough
- Supports PC resolutions from VGA to WUXGA and HDTV resolutions from 480i to 1080p as well as 3D signal display dependent upon the display's EDID settings
- Supports passthrough of all standard digital audio formats: LPCM 2.0/5.1/7.1, Bitstream, and HD Bitstream
- Supports IR pass-back through CAT for source control
- Supports external and internal EDID settings
- Supports HDMI input up to 15m at 8-bit 1080p or 10m at 12-bit 1080p
- 2U size design

## 4×4 HDMI/Dual-CAT Matrix

CMLUX-4H4CAT



This matrix is a high performance device, boasting features such as a remote control, IR blaster and IR receiver. Compatible with Deep Color Video and high definition digital audio, this device has the ability to direct any of its four HDMI sources to any of the four HDMI displays, with each display showing a different source. Furthermore, since the signal is sent over CAT6 cables, you gain a long operating distance (50m at 1080p/8-bit) and if connected to a CAT6 receiver or splitter you can extend your operating range over even longer distances. Lastly, with four individual output IR blasters, users are able to control the input sources with their existing remote controls.

- DVI 1.0 compatible and HDCP 1.x compliant
- Supports Deep Color up to 36-bit (12-bit/color)
- Supports high-definition digital audio formats including LPCM 2.0/5.1/7.1, Bitstream, and HD Bitstream (32~192kHz sample rate)
- When the HDMI signal passes through this matrix it is compensated, clock/phase adjusted and jitter free
- Input/output LED indicators
- Compatible with most HDMI sources and displays
- Supports a wide range of PC and HDTV resolutions from VGA to UXGA and 480i to 1080p
- Has RS-232 control
- Supports IR remote control with an IR extender and blaster
- Indicates whether the source is HDCP, HDMI or DVI via an LED light
- Cable testing showed that at 1080p/8 or 12 bits resolution the input & output source(s) can be up to 15 meters away

## 8x8 DVI Matrix

CMSI-8D8DSA

Family Model • CMSI-8D8DS



This matrix is the perfect choice for the switching and distribution of DVI sources. Connect up to eight DVI sources to eight DVI displays allowing any source to be independently displayed on any monitor. Each DVI input and output has a corresponding 3.5mm mini-jack connection allowing for audio to be distributed.

This matrix supports a full range of PC and HDTV resolutions up to WUXGA@60Hz (RB) and 1080p@60Hz, 2.25Gbps bandwidth, 12-bit Deep Color, and 3D video. This matrix also can be controlled via its front panel, IR, RS-232 or Telnet and WebGUI over IP.

- DVI 1.0 compatible and HDCP 1.x compliant
- Supports HDMI 3D passthrough (with HDMI to DVI adaptor cable)
- Supports PC resolutions from VGA to WUXGA and HDTV resolutions from 480i to 1080p as well as 3D signal display dependent upon the display's EDID settings
- Supports stereo audio input and output via 3.5mm mini-jack cable
- Supports external and internal EDID settings
- 2U size design

## 16x4 SDI Matrix

CMSDI-164

Family Models • CMSDI-44 • CMSDI-84 • CMSDI-124



This matrix series allows SD-SDI, HD-SDI, and 3G-SDI signals to be shown on SDI displays while ensuring high bit-rates of 2.970Gbps & 2.970/1.001Gbps to give you fast signal transmission without signal loss. For professionals, this means that it is now easier to switch multiple 3G-SDI signals and split display of them on up to four SDI-equipped displays simultaneously. Additionally, these matrixes can be controlled with the supplied IR remote, the front panel keys or RS-232 control functions.

- Bit rates support 270Mbps, 1.485Gbps & 1.485/1.001Gbps, and 2.970Gbps & 2.970/1.001Gbps
- Supports SMPTE 259M-C@270Mbps for SD-SDI signal
- Supports SMPTE 292M@1.485Gbps & 1.485/1.001Gbps for HD-SDI signal
- Supports SMPTE 424M/425M-A@2.970Gbps & 2.970/1.001Gbps for 3G-SDI signal
- Supports audio sampling rate at 48kHz
- Supports distances up to 300m for SD-SDI signal, 200m for HD-SDI signal, and 100m for 3G-SDI signal

## 4×4 Component Video Matrix

CCMX-44DA

**Family Models** • CCMX-42 • CCMX-44



This matrix is a high performing Digital/Analog AV matrix. When distributing multiple HD audio/video sources this device offers you the advantage of being able to direct them to any of the four outputs, or all four displays can show one output source at the same time. It also provides you with a variety of choices of where to play your image, all of which is controlled through the remote.

- Provides 4×4 matrix input/output of Component Video and analog L/R & Coaxial digital audio signals
- Buffered video and audio output
- Supports HDTV resolutions including 480i, 576i, 480p, 576p, 1080i & 1080p
- Supports analog stereo audio via L/R input/output
- Supports digital S/PDIF audio via Coaxial input/output
- LED indicators for input source on each output selection
- Controls via IR remote control and RS-232

## 2×9 HDMI to HDMI/HDBaseT Switching Splitter

CHDBT-2H8CE



This splitter can send either of 2 uncompressed, high definition, video/audio input signals to up to 9 displays (8xHDBaseT, 1xHDMI) simultaneously. In addition to the standard audio and video capabilities carried by the HDMI output, the HDBaseT outputs can also bi-directionally transmit RS-232 and IR control signals as well as extending your local LAN to compatible receivers up to 100 meters away. HDMI audio extraction is also supported via a single set of digital optical and analog stereo RCA ports (LPCM 2.0 only). The 24V PoC (Power over Cable) is also available on all HDBaseT outputs to enable compatible connected receivers to operate without the need for local power supplies. The unit can be easily operated via front-panel buttons, RS-232, and IR remote.

- DVI 1.0 compatible and HDCP 1.x compliant
- Two HDMI inputs
- One HDMI and eight HDBaseT outputs, the HDMI and HDBaseT outputs all show the same source simultaneously
- Supports data rates up to 10.2Gbps (340MHz)
- Supports a wide range of PC resolutions from VGA to WUXGA and HD resolutions up to 4K (3840×2160@30Hz and 4096×2160@24Hz)
- Supports Bitstream and HD Bitstream formats as well as uncompressed audio up to LPCM 7.1
- HDMI audio extraction is supported via a single set of digital optical and analog stereo RCA ports (LPCM 2.0 only)
- Resolutions up to 1080p@60Hz can be transmitted up to 100m via CAT5e/6/7
- Resolutions up to 4K@30Hz can be transmitted up to 60m via CAT5e/6 and up to 100m via CAT6a/7
- Supports Ethernet transmission rates up to 100Mbps
- Supports bidirectional IR control signal transmission
- Supports 24V PoC to compatible receivers
- Manual selection between internal EDID or external EDID
- Control via front-panel buttons, RS-232, and IR remote

## 1×8 HDMI to HDMI/HDBaseT Splitter

CHDBT-1H7CE

Family Models • CHDBT-1H7CPL • CHDBT-1H7CL



This splitter can split and distribute a single HDMI input, 2-way IR control and LAN serving to up to seven CAT5e/6/7 outputs and includes a simultaneous HDMI bypass output. It supports resolutions up to 1080p Full HD, 4K Ultra HD, 3D, and multi-channel digital audio formats. The HDMI bypass output can be connected to an HDMI display or cascaded to another splitter. The CAT5e/6/7 outputs can be connected to compatible HDBaseT receivers to extend the operating distance up to 100 meters.

Additionally, the LAN connectivity will allow a 100BaseT network to be served to smart TVs or games consoles. The 24V PoC (Power over Cable) function can power compatible receivers, providing greater flexibility in installations.

- DVI 1.0 compatible and HDCP 1.x compliant
- Simultaneous HDMI and CAT5e/6/7 outputs
- Supports one HDTV and seven HDBaseT outputs
- Supports data rates up to 300MHz/9Gbps
- Supports PC resolutions up to WUXGA@60Hz (RB) and HDTV resolutions up to 4K@60Hz (YUV 4:2:0)
- 3D signal display is dependent on the TV/display's EDID settings
- Supports passthrough of all standard digital audio formats: LPCM 2.0/5.1/7.1, Bitstream, and HD Bitstream (32~192kHz sampling rates)
- Supports control of devices via 2-way IR
- Supports Ethernet transmission rate up to 100Mbps
- Supports 24V PoC to compatible receivers
- Supports distances up to 100 meters over CAT5e/6/7 cables
- Supports "Standard" mode and "TV" mode EDID settings

# 1×4 HDMI to HDMI/HDBaseT Splitter

CHDBT-1H3CE

Family Models • CHDBT-1H3CPL • CHDBT-1H3CL



This splitter can split and distribute a single HDMI input, 2-way IR control and LAN serving to up to three CAT5e/6/7 outputs and includes a simultaneous HDMI bypass output. It supports resolutions up to 1080p Full HD, 4K Ultra HD, 3D, and multi-channel digital audio formats. The HDMI bypass output can be connected to an HDMI display or cascaded to another splitter. The three CAT5e/6/7 outputs can be connected to CAT5e/6/7 to HDMI receivers to extend the operating distance up to 100 meters.

Additionally, the LAN connectivity will allow a 100BaseT network to be served to smart TVs or games consoles. The 24V PoC (Power over Cable) function can power compatible receivers, providing greater flexibility in installations.

- DVI 1.0 compatible and HDCP 1.x compliant
- Simultaneous HDMI and CAT5e/6/7 outputs
- Supports one HDTV and three HDBaseT outputs
- Supports data rates up to 300MHz/9Gbps
- Supports PC resolutions up to WUXGA@60Hz (RB) and HDTV resolutions up to 4K@60Hz (YUV 4:2:0)
- 3D signal display is dependent on the TV/display's EDID settings
- Supports passthrough of all standard digital audio formats: LPCM 2.0/5.1/7.1, Bitstream, and HD Bitstream (32~192kHz sampling rates)
- Supports control of devices via 2-way IR
- Supports Ethernet transmission rate up to 100Mbps
- Supports 24V PoC to compatible receivers
- Supports distances up to 100 meters over CAT5e/6/7 cables
- Supports "Standard" mode and "TV" mode EDID settings

# 1×3 HDMI to HDMI/HDBaseT Splitter

CHDBT-1H2CE



This splitter over HDMI and CAT5e/6/7 supports resolutions up to 1080p Full HD, Deep Color, 4K Ultra HD, 3D, and multi-channel digital audio formats from HD sources to one HDMI and two CAT5e/6/7 outputs. This splitter has the ability to provide you with simultaneous HDMI and 2 CAT5e/6/7 outputs where the HDMI output can be connected to display or cascaded with another splitter. The CAT5e/6/7 outputs can be connected to CAT5e/6/7 to HDMI receivers to extend the operating distance up to 100 meters.

Additionally, the LAN connectivity will allow a 100BaseT network to be served to smart TVs or games consoles. The 24V PoC (Power over Cable) function can power compatible receivers, providing greater flexibility in installations.

- DVI 1.0 compatible and HDCP 1.x compliant
- Simultaneous HDMI and CAT5e/6/7 outputs
- Supports one HDTV and two HDBaseT outputs
- Supports data rates up to 300MHz/9Gbps
- Supports PC resolutions up to WUXGA@60Hz (RB) and HDTV resolutions up to 4K@60Hz (YUV 4:2:0)
- 3D signal display is dependent on the TV/display's EDID settings
- Supports passthrough of all standard digital audio formats: LPCM 2.0/5.1/7.1, Bitstream, and HD Bitstream (32~192kHz sampling rates)
- Supports control of devices via 2-way IR
- Supports Ethernet transmission rate up to 100Mbps
- Supports 24V PoC to compatible receivers
- Supports distances up to 100 meters over CAT5e/6/7 cables

# 1×2 HDMI to HDMI/HDBaseT Splitter (Bidirectional 24V PoC)

CHDBT-1H1CE

Family Models • CHDBT-1H1CPL • CHDBT-1H1CL



This splitter can split and distribute a single HDMI input, 2-way IR or RS-232 control and LAN serving to a single CAT5e/6/7 output and includes a simultaneous HDMI bypass output. It supports resolutions up to 1080p Full HD, 4K Ultra HD, 3D, and multi-channel digital audio formats. The HDMI bypass output can be connected to an HDMI display or cascaded to another splitter. The CAT5e/6/7 outputs can be connected to a CAT5e/6/7 to HDMI receiver to extend the operating distance up to 100 meters.

Additionally, the LAN connectivity will allow a 100BaseT network to be served to smart TVs or games consoles. The 24V PoC (Power over Cable) function can power compatible receivers, providing greater flexibility in installations.

- DVI 1.0 compatible and HDCP 1.x compliant
- Simultaneous HDMI and CAT5e/6/7 outputs
- Supports one HDTV and one HDBaseT outputs
- Supports data rates up to 300MHz/9Gbps
- Supports PC resolutions up to WUXGA@60Hz (RB) and HDTV resolutions up to 4K@60Hz (YUV 4:2:0)
- 3D signal display is dependent on the TV/display's EDID settings
- Supports passthrough of all standard digital audio formats: LPCM 2.0/5.1/7.1, Bitstream, and HD Bitstream (32~192kHz sampling rates)
- Supports control of devices via 2-way IR and RS-232
- Supports Ethernet transmission rate up to 100Mbps
- Supports bidirectional 24V PoC to compatible receiver
- Supports distances up to 100 meters over CAT5e/6/7 cables

# 1×2 HDBaseT to HDMI Splitter (Bidirectional 24V PoC)

CHDBR-2HE



This splitter is designed to receive an HDBaseT signal from a compatible transmitter or matrix unit. It features full HDBaseT convergence allowing the transmission of video, audio, control (IR/RS-232), 24V PoC (Power over Cable), and LAN serving over a single CAT5e/6/7 cable up to 100m.

This unit features a simultaneous dual HDMI output allowing the connection of a second display in the same zone. Additionally, it has bidirectional 24V PoC function that allows for greater flexibility in installations and LAN serving function that allows any connected device to share network/Internet connectivity.

- DVI 1.0 compatible and HDCP 1.x compliant
- Dual simultaneous HDMI outputs
- Supports one HDBaseT input
- Supports data rates up to 300MHz/9Gbps
- Supports PC resolutions up to WUXGA@60Hz (RB) and HDTV resolutions up to 4K@60Hz (YUV 4:2:0)
- Supports passthrough of all standard digital audio formats: LPCM 2.0/5.1/7.1, Bitstream, and HD Bitstream (32~192kHz sampling rates)
- Supports bidirectional IR passthrough
- Supports RS-232 control passthrough
- Supports Ethernet transmission rate up to 100Mbps
- Supports bidirectional 24V PoC to compatible transmitters
- Supports distances up to 100 meters over CAT5e/6/7 cables

# 1×10 HDMI 6G Splitter

CPLUS-V10E

**Family Models** • CPLUS-V2E • CPLUS-V4E • CPLUS-V8E



This family of HDMI splitters is an advanced solution for splitting and distributing a single HDMI input to 2, 4, 8 or 10 HDMI outputs. It provides high performance audio and video output up to 4K@60Hz (YUV 4:4:4) resolution and is capable of providing high levels of audio and video performance. It supports passthrough of high-definition digital audio formats with audio sampling rates up to 192kHz as well as High Dynamic Range (HDR) imaging. Additionally, the System Reset function allows the unit to reset the CEC-enabled TV to its default HDMI input automatically.

- HDMI with 18Gbps/600MHz bandwidth support
- DVI 1.0 compatible and HDCP 2.2/1.4 compliant
- 1 HDMI input and 2/4/8/10 HDMI outputs
- Simultaneous display of a single Ultra High-Definition (UHD) source on up to 2/4/8/10 UHD displays
- Supports PC resolutions up to WUXGA@60Hz (RB) and HDTV resolutions up to 4K@60Hz (YUV 4:4:4)
- High Dynamic Range (HDR) passthrough with compatible HDR source and HDR display
- Supports passthrough of all standard digital audio formats: LPCM 2.0/5.1/7.1, Bitstream, and HD Bitstream
- 3D passthrough with compatible 3D source and 3D display
- Supports Deep Color up to 1080p/36-bit
- Supports "Standard" mode and "TV" mode EDID settings
- Supports System Reset function (CEC active source command)
- Input and output status are indicated on the front panel

# 1×10 HDMI 4K Splitter

CDPS-UA1H10HS

**Family Models** • CDPS-UA1H2HS • CDPS-UA1H4HS



This family of HDMI splitters is an advanced solution for splitting and distributing a single HDMI input to 2, 4 or 10 HDMI outputs. It provides high performance audio and video output up to 4K@60Hz (YUV 4:2:0) resolution with HDCP 2.2 and is capable of providing high levels of audio and video performance. It supports passthrough of high-definition digital audio formats with audio sampling rates up to 192kHz. Additionally, the System Reset function allows the unit to reset the CEC-enabled TV to its default HDMI input automatically.

- DVI 1.0 compatible and HDCP 2.2/1.4 compliant
- 1 HDMI input and 2/4/10 HDMI outputs
- Simultaneous display of a single Ultra High-Definition (UHD) source on up to 2/4/10 UHD displays
- Supports PC resolutions up to WUXGA@60Hz (RB) and HDTV resolutions up to 4K@60Hz (YUV 4:2:0)
- Supports passthrough of all standard digital audio formats: LPCM 2.0/5.1/7.1, Bitstream, and HD Bitstream
- 3D passthrough with compatible 3D source and 3D display
- Supports Deep Color up to 1080p/36-bit
- Supports "Standard" mode and "TV" mode EDID settings
- Supports System Reset function (CEC active source command)
- Input and output status are indicated on the front panel

# 1×8 HDMI 4K Splitter

CPR0-U8T



Family Models • CPR0-U2T • CPR0-U4T



This family of HDMI splitters is an advanced solution for splitting and distributing a single HDMI input to 2, 4 or 8 HDMI outputs. It provides high performance audio and video output up to 4K@60Hz (YUV 4:2:0) resolution with HDCP 1.4 and is capable of providing high levels of audio and video performance. It supports passthrough of high-definition digital audio formats with audio sampling rates up to 192kHz. Additionally, the System Reset function allows the unit to reset the CEC-enabled TV to its default HDMI input automatically.

- HDMI with 3D & 4K support
- DVI 1.0 compatible and HDCP 1.x compliant
- 1 HDMI input and 2/4/8 HDMI outputs
- Simultaneous display of a single Ultra High-Definition (UHD) source on up to 2/4/8 UHD displays
- Supports PC resolutions up to WUXGA@60Hz (RB) and HDTV resolutions up to 4K@60Hz (YUV 4:2:0)
- Supports passthrough of all standard digital audio formats: LPCM 2.0/5.1/7.1, Bitstream, and HD Bitstream
- 3D passthrough with compatible 3D source and 3D display
- Supports Deep Color up to 1080p/36-bit
- Supports "Standard" mode and "TV" mode EDID settings
- Supports System Reset function (CEC active source command)
- Input and output status are indicated on the front panel

# 1×8 HDMI 4K Splitter

CPR0-8ER

Family Models • CPR0-4ER



This family of HDMI splitters is an advanced solution for splitting and distributing a single HDMI input to 4 or 8 HDMI outputs. It provides high performance audio and video output up to 4K@30Hz resolution and is capable of providing high levels of audio and video performance. It supports passthrough of high-definition digital audio formats with audio sampling rates up to 192kHz. Additionally, The System Reset function allows the unit to reset the CEC-enabled TV to its default HDMI input automatically.

- HDMI with 3D & 4K support and HDCP 1.x compliant
- 1 HDMI input and 4/8 HDMI outputs
- Simultaneous display of a single High-Definition (HD) source on up to 4/8 HD displays
- Supports PC resolutions up to WUXGA@60Hz (RB) and HDTV resolutions up to 4K@30Hz
- Supports passthrough of all standard digital audio formats: LPCM 2.0/5.1/7.1, Bitstream, and HD Bitstream
- 3D passthrough with compatible 3D source and 3D display
- Supports Deep Color up to 1080p/36-bit
- Supports "Standard" mode and "TV" mode EDID settings
- Supports System Reset function (CEC active source command)
- Input and output status are indicated on the front panel

## 1×16 HDMI 4K Splitter

CPR0-16E

**Family Models** • CPR0-2E • CPR0-4E • CPR0-8E



This family of HDMI splitters is an advanced solution for splitting and distributing a single HDMI input to 2, 4, 8 or 16 HDMI outputs. It provides high performance audio and video output up to 4K@30Hz resolution and is capable of providing high levels of audio and video performance. It supports passthrough of high-definition digital audio formats with audio sampling rates up to 192kHz.

- HDMI with 3D & 4K support and HDCP 1.x compliant
- 1 HDMI input and 2/4/8/16 HDMI outputs
- Simultaneous display of a single High-Definition (HD) source on up to 2/4/8/16 HD displays
- Supports PC resolutions up to WUXGA@60Hz (RB) and HDTV resolutions up to 4K@30Hz
- Supports passthrough of all standard digital audio formats: LPCM 2.0/5.1/7.1, Bitstream, and HD Bitstream
- 3D passthrough with compatible 3D source and 3D display
- Supports Deep Color up to 1080p/36-bit
- Supports "Standard" mode and "TV" mode EDID settings

## 1×8 HDMI Mountable Splitter

CLUX-18W

**Family Model** • CLUX-14W



This family of HDMI splitters is the most advanced solution for HDMI signal distribution. Each product in this range can transmit Deep Color (10-bit and 12-bit) video and lossless compressed digital audio signals, with a high bandwidth up to 225MHz (6.75Gbps). Besides splitting and distributing, this unit also does signal amplification and equalization, so as to provide high performance I/O of audio and video. With added features like EDID and CEC this unit is made to support your signal distributing needs.

- DVI 1.0 compatible and HDCP 1.x compliant
- Splits one HDMI input up to eight outputs without signal loss
- Displays one HDMI source on up to eight HDMI displays simultaneously
- Supports Deep Color up to 36-bit (12-bit/color)
- Supports a wide range of PC and HDTV resolutions from VGA to WUXGA (RB) and 480i to 1080p
- Supports passthrough of all standard digital audio formats: LPCM 2.0/5.1/7.1, Bitstream, and HD Bitstream (32~192kHz sampling rates)
- Supports Deep Color selection of 8-bit or 12-bit settings
- Supports EDID selection of Standard or TV settings
- Supports System Reset function (CEC active source command)
- Supports CEC signal bypass



## 2×10 HDMI Switching Splitter

CLUX-210S



This splitter is the most advanced solution for HDMI signal distribution. It can transmit Deep Color (10-bit and 12-bit) video and lossless compressed digital audio signals, with a high bandwidth up to 225MHz (6.75Gbps). Besides splitting and distributing, this unit also does signal amplification and equalization, so as to provide high performance I/O of audio and video. Each of the buffered output can run up to 15 meters and can be cascaded.

- DVI 1.0 compatible and HDCP 1.x compliant
- Switches between two HDMI inputs and splits the selected input to ten outputs without signal loss
- Displays one of the two HDMI sources on ten HDMI displays simultaneously
- Supports Deep Color up to 36-bit (12-bit/color)
- Supports passthrough of LPCM 2.0/5.1/7.1, Bitstream, and HD Bitstream audio formats (32~192kHz sampling rates)
- Supports a wide range of PC and HDTV resolutions from VGA to UXGA and 480i to 1080p
- Supports EDID selection of Standard or TV settings

## 1×8 HDMI Splitter

CLUX-18S

Family Models • CLUX-12S • CLUX-14S



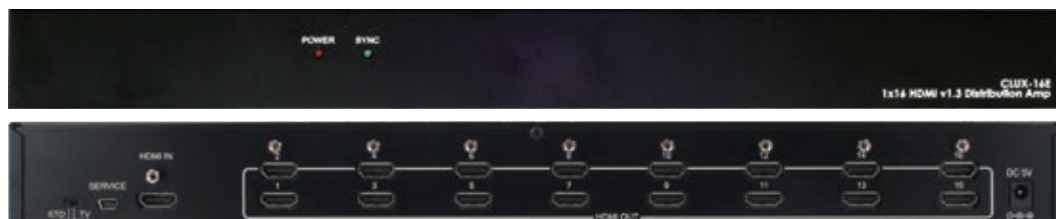
This family of HDMI splitters is the most advanced solution for HDMI signal distribution. Each product in this range can transmit Deep Color (10-bit and 12-bit) video and lossless compressed digital audio signals, with a high bandwidth up to 225MHz (6.75Gbps). Besides splitting and distributing, this unit also does signal amplification and equalization, so as to provide high performance I/O of audio and video. Each of the buffered output can run up to 15 meters and can be cascaded.

- DVI 1.0 compatible and HDCP 1.x compliant
- Splits one HDMI input up to eight outputs without signal loss
- Displays one HDMI source on up to eight HDMI displays simultaneously
- Deep Color support up to 12-bit, 1080p@60Hz resolution
- Supports a wide range of PC and HDTV resolutions from VGA to UXGA and 480i to 1080p
- Supports passthrough of LPCM 2.0/5.1/7.1, Bitstream, and HD Bitstream audio formats (32~192kHz sampling rates)
- Supports EDID selection of Standard or TV settings
- Supports CEC signal bypass

# 1×16 HDMI Splitter

CLUX-16E

**Family Models** • CLUX-12E • CLUX-14E • CLUX-18E



This family of HDMI splitters is the most advanced solution for HDMI signal distribution. Each product in this range can transmit Deep Color (10-bit and 12-bit) video and lossless compressed digital audio signals, with a high bandwidth up to 225MHz (6.75Gbps). Besides splitting and distributing, this unit also does signal amplification and equalization, so as to provide high performance I/O of audio and video. With added features like EDID and CEC this unit is made to support your signal distributing needs.

- DVI 1.0 compatible and HDCP 1.x compliant
- Splits one HDMI input up to sixteen outputs without signal loss
- Displays one HDMI source on up to sixteen HDMI displays simultaneously
- Deep Color support up to 12-bit, 1080p@60Hz resolution
- Supports a wide range of PC and HDTV resolutions from VGA to UXGA and 480i to 1080p
- Supports passthrough of LPCM 2.0/5.1/7.1, Bitstream, and HD Bitstream audio formats (32~192kHz sampling rates)
- Supports EDID selection of Standard or TV settings
- Supports CEC signal bypass

# 1×8 HDMI Splitter

CLUX-18CEC

**Family Models** • CLUX-12CEC • CLUX-14CEC



This family of HDMI splitters is the most advanced solution for HDMI signal distribution. Each product in this range can transmit Deep Color (10-bit and 12-bit) video and lossless compressed digital audio signals, with a high bandwidth up to 225MHz (6.75Gbps). Besides splitting and distributing, this unit also does signal amplification and equalization, so as to provide high performance I/O of audio and video..

- DVI 1.0 compatible and HDCP 1.x compliant
- Splits one HDMI input up to eight outputs without signal loss
- Displays one HDMI source on up to eight HDMI displays simultaneously
- Deep Color support up to 12-bit, 1080p@60Hz resolution
- Supports a wide range of PC and HDTV resolutions from VGA to UXGA and 480i to 1080p
- Supports passthrough of LPCM 2.0/5.1/7.1, Bitstream, and HD Bitstream audio formats (32~192kHz sampling rates)
- Supports EDID and CEC signal bypass
- Supports the most commonly used HDMI CEC commands

## 1×8 HDMI Splitter (Plus ARC & HEC Links)

CPRO-8MCEC



This splitter supports one HDMI input and eight HDMI outputs with 3D and individual CEC control functions. One of the eight output ports supports Audio Return Channel (ARC) and HDMI Ethernet Channel (HEC). The ARC function provides an S/PDIF link from an HDMI sink and output through ARC port to a AV receiver to get true audio from the sink. The HEC function adds a connection to the HDMI link that is capable of carrying the same data as a full duplex with 100Mbps Ethernet connection, using an HDMI with HEAC cable allowing for convenient integration of Digital Televisions (DTVs) into the end user's home network system.

- DVI 1.0 compatible and HDCP 1.x compliant
- Transmits an HDMI source to eight outputs without any signal loss
- Allows one HDMI source outputted to eight HDMI displays simultaneously
- Output port 4 supports HDMI Ethernet Channel (HEC) and Audio Return Channel (ARC) functions
- Supports a wide range of PC and HDTV resolutions from VGA to UXGA and 480i to 1080p
- Deep Color support up to 12-bit, 1080p@60Hz
- Supports passthrough of all standard digital audio formats: LPCM 2.0/5.1/7.1, Bitstream, and HD Bitstream
- Supports EDID selection of Standard or TV settings
- Supports System Reset function

## 1×8 HDMI Splitter

CLUX-8M3D



This splitter with eight HDMI outputs and capable of distributing 3D content is a forward looking device that helps you handle futuristic technology today. With the transmission of 3D content, Deep Color (10-bit and 12-bit) video, and lossless compressed digital audio signals, this unit does not only handle splitting and distributing but it also amplifies and equalizes the signals to provide high-performance input/output of audio and video.

- DVI 1.0 compatible and HDCP 1.x compliant
- Transmits an HDMI source to eight outputs without any signal loss
- Allows one HDMI source outputted to eight HDMI displays simultaneously
- Supports 3D content with an LED indicator to indicate if the video is in standard definition or 3D
- Supports a wide range of PC and HDTV resolutions from VGA to WUXGA (RB) and 480i to 1080p
- Deep Color support up to 12-bit, 1080p@60Hz
- Supports passthrough of LPCM 2.0/5.1/7.1, Bitstream, and HD Bitstream audio formats (32~192kHz sampling rates)
- Supports EDID selection of Standard or TV settings
- Supports System Reset function

# 1×8 HDMI Splitter

CLUX-8M

Family Model • CLUX-4M



This splitter is the most advanced solution to HDMI signal distribution. It can transmit Deep Color (10-bit and 12-bit) video and lossless compressed digital audio signals, with a high bandwidth up to 225MHz (6.75Gbps). Besides splitting and distributing, the splitter also does signal amplification and equalization, so as to provide high performance I/O of audio and video.

- DVI 1.0 compatible and HDCP 1.x compliant
- Transmits an HDMI source to eight outputs without any signal loss
- Allows one HDMI source outputted to eight HDMI displays simultaneously
- Supports a wide range of PC and HDTV resolutions from VGA to UXGA and 480i to 1080p
- Deep Color support up to 12-bit, 1080p@60Hz
- Supports passthrough of LPCM 2.0/5.1/7.1, Bitstream, and HD Bitstream audio formats (32~192kHz sampling rates)
- Supports EDID selection of Standard or TV settings
- Supports System Reset function

# 1×8 HDMI Splitter

CLUX-18EU



This splitter with eight HDMI outputs and capable of distributing 3D content is a forward looking device that helps you handle futuristic technology today. With the transmission of 3D content, Deep Color (10-bit and 12-bit) video, and lossless compressed digital audio signals, this unit does not only handle splitting and distributing but it also amplifies and equalizes the signals to provide high-performance input/output of audio and video. Further, this unit allows users to cascade up to 4 layers for extending and distributing the 1080p/8-bit signal without loss of quality or delay.

- DVI 1.0 compatible and HDCP 1.x compliant
- Transmits an HDMI source to eight outputs without any signal loss
- Allows one HDMI source outputted to eight HDMI displays simultaneously
- Supports a wide range of PC and HDTV resolutions from VGA to UXGA and 480i to 1080p
- Deep Color video up to 12-bits, 1080p@60Hz
- Supports passthrough of LPCM 2.0/5.1/7.1, Bitstream, and HD Bitstream audio formats (32~192kHz sampling rates)
- Supports EDID selection of Standard or TV settings
- Supports System Reset function
- Supports firmware updates via USB

## 1×2 HDMI Splitter (Plus HDMI Audio-Only Output)

CLUX-3D12S1A



This splitter is fully compliant with HDMI specifications and allows the output from any HDMI equipped sources to be split and allow connection to up to two HDTV displays e.g. an HDTV and a projector in the same room. The third HDMI output is an audio with blue screen output, which means it can be connected to an AV receiver that does not support 3D signal.

- DVI 1.0 compatible and HDCP 1.x compliant
- Deep Color video up to 12-bit, 1080p@60Hz
- One HDMI source to connect up to two HDMI displays simultaneously
- One audio-only HDMI output connected to AVR
- Splits a HDMI source to two outputs without signal loss
- Supports passthrough of all standard digital audio formats: LPCM 2.0/5.1/7.1, Bitstream, and HD Bitstream (32~192kHz sampling rates)
- Supports a wide range of PC and HDTV resolutions from VGA to WUXGA (RB) and 480i to 1080p
- HDMI cable distance test with 1080p/8-bit or 12-bit resolution, the Input/Output distance can run up to 15 meters
- Supports EDID functionality (Note: This unit will detect the video's EDID information based on HDMI OUT 1 and the audio's EDID based on HDMI OUT 3.)

## 1×8 HDMI to Single-CAT6 Splitter

CLUX-8MCAT

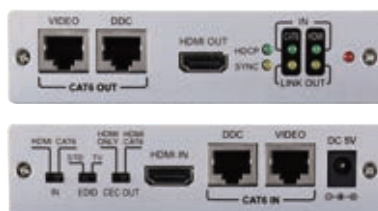


This splitter can simultaneously distribute a single HDMI source to eight displays when connecting with a CAT6 to HDMI receiver. Providing you with an efficient and cost effective way to link your displays, this system uses a direct input of one HDMI source and eight CAT6 outputs that send uncompressed data and allow you to distribute HDMI signals at their full strength and at great distances. Moreover, this unit supports 3D signals and includes an LED indicator that shows when you are broadcasting 3D media. This splitter is the most efficient way to handle your HDMI splitting needs.

- DVI 1.0 compatible and HDCP 1.x compliant
- Deep Color video input up to 12-bit, 1080p@60Hz
- Deep Color video output up to 10-bit, 1080p@60Hz
- One HDMI source to eight CAT6 output allows users to simultaneously link eight displays with eight CAT6 to HDMI receivers
- Transmit a single HDMI source through eight outputs without any signal loss
- Supports passthrough of all standard digital audio formats: LPCM 2.0/5.1/7.1, Bitstream, and HD Bitstream (32~192kHz sampling rates)
- Supports a wide range of PC and HDTV resolutions from VGA to WUXGA (RB) and 480i to 1080p
- Selectable EDID from either the TV or STD mode
- Deep Color setting of 8 bits or 12 bits
- Supports 3D signals with an LED indicator

## 2×2 HDMI/Dual-CAT6 Switching Splitter

CLUX-22HC



This splitter is the most advanced solution for HDMI and Video/DDC signal distribution. This CAT6 output port can be easily connected to an HDMI receivers CAT6 input port to allow a stable connection between an HDMI source and any compatible display. It can transmit Deep Color (10-bit and 12-bit) video and lossless compressed digital audio signals, with a high bandwidth up to 225MHz (6.75Gbps). Besides splitting and distributing, the Video/DDC CAT6 output also does signal amplification and equalization which provide high performance I/O of audio and video.

- DVI 1.0 compatible and HDCP 1.x compliant
- Supports Deep Color up to 36-bit (12-bit/color)
- Simultaneously outputs one HDMI and one Video/DDC CAT6 source to one HDMI and one Video/DDC CAT6 output
- Capable of splitting HDMI/CAT6 sources to HDMI/CAT6 outputs without any signal loss
- Supports passthrough of all standard digital audio formats: LPCM 2.0/5.1/7.1, Bitstream, and HD Bitstream (32~192kHz sampling rates)
- Supports a wide range of PC and HDTV resolutions from VGA to SXGA and 480i to 1080p
- Supports HDMI cable distance up to 15 meters at 8-bit 1080p resolution, 10 meters at 12-bit 1080p resolution
- Supports CAT6 cable distance up to 45 meters at 8-bit 1080p resolution, 20 meters at 12-bit 1080p resolution

## 1×8 HDMI to Dual-CAT6 Splitter

CLUX-1H8CAT

**Family Models** • CLUX-1H4CAT • CLUX-1CAT4H



This splitter when used with CAT6 to HDMI receivers it will allow user to distribute a HDMI source through CAT6 cable over 45 mtrs. This solution provides a direct input of one HDMI to a looped output of HDMI and seven CAT6 outputs – a smart way to link and display a single source to 8 different screens simultaneously. Alternatively, the HDMI output can also be treated as an extender to connect to another HDMI splitter or cascade with other unit in multiple layers. This unit allows user to transmit HDMI signal via CAT6 without compression over long distance. This splitter also incorporates functions like EDID, System Reset, Deep Color and IR systems.

- DVI 1.0 compatible and HDCP 1.x compliant
- Supports Deep Color up to 36-bit (12-bit/color)
- One HDMI source connection to one HDMI output and seven CAT6 to HDMI
- Supports passthrough of all standard digital audio formats: LPCM 2.0/5.1/7.1, Bitstream, and HD Bitstream (32~192kHz sampling rates)
- Supports a wide range of PC and HDTV resolutions from VGA to SXGA and 480i to 1080p
- EDID settings of TV mode or STD mode
- Deep Color settings of 8 bit or 12 bit
- System Reset function
- IR remote control
- CEC bypass

## 1×4 Dual-link DVI Splitter

CDVI-4DDS

**Family Model** • CDVI-2DDS



This splitter allows a single DVI-D signal to be split into two/four DVI outputs. Accept both Single-Link and Dual-Link DVI signal with supporting the highest resolution of WQXGA for Dual-Link and WUXGA@RB for Single-Link DVI this wonderful device allows users with a multi-screen viewing.

- DVI 1.0 compatible and HDCP 1.x compliant
- Supports video resolutions up to WQXGA with Dual-Link DVI or WUXGA with Single-Link DVI
- Built-in adaptive equalizer provides long cable support
- Support EDID function
- Individual control of hot plug detect

## 1×8 Single-link DVI Splitter

CDVI-8S

**Family Models** • CDVI-2S • CDVI-4S



This family of HDMI splitters is a high performance, HDCP compliant DVI distribution amplifier. It allows one DVI signal source to be split to two, four or eight identical buffered outputs for connecting to up to eight DVI displays simultaneously. These models can be used to transfer HDMI signal by using HDMI to DVI adaptor or cable. Each of the buffered outputs can be run up to 15 meters and can be cascaded.

- DVI 1.0 compatible and HDCP 1.x compliant
- Compatible with HDMI signal (with adaptor cable)
- Supports a wide range of PC and HDTV resolutions from VGA to WUXGA and 480p to 1080p
- Can be cascaded up to 3 layers
- The device will read and record the EDID of output 1 and then send it to the source device

## 1×4 DisplayPort Splitter

CDP-14C



This splitter allows single DisplayPort (DP) source to be displayed on four DP monitors simultaneously. It supports video resolution up to 2560×1440 and PCM 2.0 audio, provides a fast switch between source and display, and saves EDID's reading sink time to allow image display properly. This unit is an ideal device for your DP source to multiple displays.

Note: This unit only supports DisplayPort output and does not support level shift conversion to an HDMI signal.

- Supports DisplayPort 1.1a
- Deep Color support up to 12-bit and resolution support up to 2560×1440
- Supports audio up to PCM 2.0 with 32kHz, 44.1kHz & 48kHz sampling rates
- Supports pixel component formats with RGB, YCbCr 4:2:2 & YCbCr 4:4:4
- Supports color space conversion between RGB and YCbCr
- Supports 1.62/2.7Gbps data rate (Low/High bit rate)
- Supports flexible 1/2/4 lanes configurations; Full 10.8Gbps data rate support (4 lanes at 2.7Gbps)
- Supports internal and external EDID settings

## 1×3 DisplayPort Splitter

CDP-13DPI

**Family Model** • CMDP-13MDPI

This splitter is able to extend an image onto 2 or 3 displays, it is perfect for multi-tasking, but can also split an image so the same image is repeated on up to three connected displays. This splitter allows users to enjoy images or video in HD resolution up to 1920×1200 on multiple monitors from a single digital output port. It is a useful device for extending displays and splitting images.

Note: This unit only supports DisplayPort output and does not support level shift conversion to an HDMI signal.

- Supports DisplayPort v1.1a, VESA DDM Standard, HDCP 1.3, and EDID 1.4
- Supports link rates of 2.7Gbps (HBR) and 1.62Gbps (RBR) from the source
- Fully HD compatible and provides full display performance with zero lag and no display application limitations
- Quality Lab (WHQL) testing/qualification
- Supports output resolutions up to 1920×1200
- Works with any desktop and notebook computer which have a DisplayPort output port
- Provides exceptional Secured Content Protection with HDCP 1.3 for digital content including video and audio



## 4×4 SDI Switching Splitter

CSDI-44

Family Model • CSDI-42



This splitter allows SD-SDI, HD-SDI, and 3G-SDI signals from four SDI sources to be switched and split to four simultaneous SDI outputs while ensuring high bitrates of 2.970Gbps to give you high bandwidth signal transmission without signal loss over long distances and can be controlled via IR or RS-232.

- Switches between four SDI sources and splits the output to four 3G-SDI displays simultaneously
- Provides equalized and re-clocked signal transmission
- SD-SDI signal supports SMPTE 259M-C@270Mbps
- HD-SDI signal supports SMPTE 292M@1.485Gbps & 1.485/1.001Gbps
- 3G-SDI signal supports SMPTE 424M/425M-A@2.970Gbps & 2.970/1.001Gbps
- Supports signal input and output distances up to 300 meter for SD-SDI, 200 meter for HD-SDI and 100 meter for 3G-SDI
- Control via RS-232, IR remote control (supplied), and on-panel buttons

## 1×4 SDI Splitter

CSDI-14



This splitter allows SD-SDI, HD-SDI, and 3G-SDI signals from one SDI sources to be split to four simultaneous SDI outputs while ensuring high bitrates of 2.970Gbps to give you high bandwidth signal transmission without signal loss over long distances

- Connect to one SDI sources and splits the output to four 3G-SDI displays simultaneously
- Provides equalized and re-clocked signal transmission
- SD-SDI signal supports SMPTE 259M-C@270Mbps
- HD-SDI signal supports SMPTE 292M@1.485Gbps & 1.485/1.001Gbps
- 3G-SDI signal supports SMPTE 424M/425M-A@2.970Gbps & 2.970/1.001Gbps
- Supports signal input and output distances up to 300 meter for SD-SDI, 200 meter for HD-SDI and 100 meter for 3G-SDI

## 1×3 VGA Splitter

CPCD-3A



This splitter is a high performance PC/Component Video distributor with analog stereo audio. It is designed to connect one PC or HDTV signal source with audio to three PC or HDTV displays.

- Supports either PC (RGB) or HDTV (YPbPr) input signal
- Accepts one PC or HD (Component Video) input and splits it into three buffered and identical outputs
- Supports stereo audio input and split it to 3 identical outputs via 3.5mm mini-stereo connector
- High bandwidth support : 480MHz (-3dB)
- Supports PC/HDTV resolutions up to UXGA/1080p
- Ideal for presentation and home theater application

## 1×3 CV/SV Splitter

CVSD-3A



This splitter is the combination of a 1 by 3 Composite Video (CV) and 1 by 3 S-Video (SV) distribution amplifier with analog stereo audio. It accepts one CV and one SV input at the same time and delivers 3 buffered and isolated outputs for each of the CV and SV input. When the CV and SV come from the same source, this unit becomes a 1-in-6-out splitter.

- Supports Composite Video or S-Video input signal and connects up to 3 displays for input either
- High bandwidth support: 10MHz (-3dB)
- Ideal for presentation and home theater application

## 1×8 Component Video Splitter

CHDD-8C

Family Model • CHDD-3C



This splitter is a high performance and versatile distribution amplifier for delivering both High-definition (HD) and Standard-definition (SD) video signal with digital/analog audio to your multiple displays. It is capable of distributing video in 3 different formats and is ideal for use in any analog video entertainment or presentation distribution system.

- Supports both SD (Composite Video, YCbCr) and HDTV (YPbPr) input signal
- Supports analog stereo (L/R) or digital coaxial (S/PDIF) audio
- Accepts 1 Component Video input and splits it to 8 identical and buffered outputs without any loss
- When input is Composite Video, this unit can connect up to 3 different video sources and output 8 identical and buffered signal for each input source
- High bandwidth support: 650MHz (-3dB)
- Ideal for presentation and home theater applications

## 4×1 HDMI 6G Switcher

CPLUS-V4H1HP



This switcher is the most advanced HDMI solution for true Ultra High-Definition (UHD) signal distribution. This unit allows for the switching of any of four 6G HDMI input signals to a single 6G HDMI display. With support for resolutions up to 4K@60Hz (YUV 4:4:4), 48-bit Deep Color, HDR (High Dynamic Range), HD audio as well as other features defined by the HDMI 2.0 specification. Multiple control interfaces are available including RS-232, Ethernet (WebGUI & Telnet), IR remote, and front-panel buttons making operation easy and intuitive.

Additionally, the Auto Switching function can detect source is connected or turned on and automatically switch to that input, or revert to the previous input once the current source is turned off or disconnected.

- HDMI bandwidth support up to 18Gbps/600MHz
- DVI 1.0 compatible and HDCP 2.2/1.4 compliant
- 4 HDMI inputs and 1 HDMI output
- Supports HDTV resolutions up to 3840×2160@50/60Hz (YUV 4:4:4) & 4096×2160@50/60Hz (YUV 4:4:4)
- Supports passthrough of all standard digital audio formats: LPCM 2.0/5.1/7.1, Bitstream, and HD Bitstream
- Deep Color (48-bit) support up to 1080p@60Hz
- Supports "Auto Switching" function which can send the signal of the latest active HDMI input source to output port
- Remotely controllable via Ethernet (WebGUI & Telnet), RS-232 and IR remote

## 4×1 HDMI 6G Switcher

CPLUS-V4H1H



This switcher is the most advanced HDMI solution for true Ultra High-Definition (UHD) signal distribution. This unit allows for the switching of any of four 6G HDMI input signals to a single 6G HDMI display. With support for resolutions up to 4K@60Hz (YUV 4:4:4), 36-bit Deep Color, HD audio as well as other features defined by the HDMI 2.0 specification. Multiple control interfaces are available including RS-232, IR remote, and front-panel buttons making operation easy and intuitive.

Additionally, the Auto Switching function can detect source is connected or turned on and automatically switch to that input, or revert to the previous input once the current source is turned off or disconnected.

- HDMI bandwidth support up to 18Gbps/600MHz
- DVI 1.0 compatible and HDCP 2.2/1.4 compliant
- 4 HDMI inputs and 1 HDMI output
- Supports HDTV resolutions up to 3840×2160@50/60Hz (YUV 4:4:4) & 4096×2160@50/60Hz (YUV 4:4:4)
- Supports passthrough of all standard digital audio formats: LPCM 2.0/5.1/7.1, Bitstream, and HD Bitstream
- Deep Color (36-bit) support up to 1080p@60Hz
- Supports "Auto Switching" function which can send the signal of the latest active HDMI input source to output port
- Remotely controllable via RS-232 and IR remote

## 4×1 HDMI 4K Switcher

CPR0-U4H1HFS



This switcher is the most advanced HDMI solution for Ultra High-Definition (UHD) signal distribution. This unit allows for the switching of any of four 3G HDMI input signals to a single 3G HDMI display. With support for resolutions up to 4K@30Hz, 36-bit Deep Color, HD audio as well as other features defined by the HDMI 1.4 specification. Multiple control interfaces are available including RS-232, Ethernet (WebGUI & Telnet), IR remote, and front-panel buttons making operation easy and intuitive.

Additionally, the Auto Switching function can detect source is connected or turned on and automatically switch to that input, or revert to the previous input once the current source is turned off or disconnected.

- HDMI with 3G 4K UHD support
- DVI 1.0 compatible and HDCP 1.x compliant
- 4 HDMI inputs and 1 HDMI output
- Supports HDTV resolutions up to 3840×2160@50/60Hz (YUV 4:2:0) & 4096×2160@50/60Hz (YUV 4:2:0)
- Supports passthrough of all standard digital audio formats: LPCM 2.0/5.1/7.1, Bitstream, and HD Bitstream
- Supports data rates up to 3Gbps and Deep Color (36-bit) up to 1080p
- Supports Auto Switching function which can send the signal of the latest active HDMI input source to output port
- Remotely controllable via Ethernet (WebGUI & Telnet), RS-232 and IR remote

## 4×1 HDMI Mountable Switcher (Plus ARC Link)

CPR0-41W

Last Gen. Model • CLUX-41W



This switcher is a high performance four-input and one-output HDMI switcher with Audio Return Channel (ARC) and HDCP repeater functions along with fast switching between HDMI input sources. This unit supports all 3D TV formats in addition to all HDTV formats up to 1080p@60Hz and 12-bit Deep Color. The On-Screen Display (OSD) menu gives users additional control over the selection of sources and makes this unit incredibly user-friendly.

- HDCP 1.x compliant
- Supports 36/30/24-bit color depth
- Supports PC resolutions from VGA to WUXGA (RB)
- Supports HDTV resolutions from 480i to 1080p
- Supports passthrough of all standard digital audio formats: LPCM 2.0/5.1/7.1, Bitstream, and HD Bitstream
- Supports HDCP repeater function
- Supports On-Screen Display (OSD) menu for selections
- Remotely controllable via RS-232 and IR remote



## 4×1 HDMI Switcher (Plus ARC Link)

CPR0-3D41GAME

Last Gen. Model • CLUX-31GAME

**HDMI**  
HIGH-DEFINITION MULTIMEDIA INTERFACE

This switcher is a high performance four-input and one-output HDMI switcher with Audio Return Channel (ARC) and HDCP repeater functions along with fast switching between HDMI input sources. This unit supports all 3D TV formats in addition to all HDTV formats up to 1080p@60Hz and 12-bit Deep Color. The On-Screen Display (OSD) menu gives users additional control over the selection of sources and makes this unit incredibly user-friendly.

- HDCP 1.x compliant
- Supports 36/30/24-bit color depth
- Supports PC resolutions from VGA to WUXGA (RB)
- Supports HDTV resolutions from 480i to 1080p
- Supports passthrough of all standard digital audio formats: LPCM 2.0/5.1/7.1, Bitstream, and HD Bitstream
- Supports HDCP repeater function
- Supports On-Screen Display (OSD) menu for selections
- Remotely controllable via IR remote



## 4×1 HDMI Switcher (Plus Digital Audio Inputs & Outputs)

CLUX-41AT

Last Gen. Model • CHDMI-41AT

**HDMI**  
HIGH-DEFINITION MULTIMEDIA INTERFACE



This switcher is a high performance HDMI switcher with a separate digital audio input and output. It allows you to share one HDMI display among several HDMI sources. Simply press one button to select your desired HDMI source to be displayed on the connected HDMI display, while the selected digital audio passes through Coaxial or Optical to be played on your audio amplifier.

- DVI 1.0 compatible and HDCP 1.x compliant
- Supports 10/12-bit color depth
- Supports PC resolutions: VGA, SVGA, XGA, SXGA, UXGA & WUXGA (RB)
- Supports HDTV resolutions: 480i, 480p, 576i, 576p, 720p, 1080i & 1080p
- Supports passthrough of all standard digital audio formats: LPCM 2.0/5.1/7.1, Bitstream, and HD Bitstream
- Signal enhancement selection that improves signal quality for long distance transmission
- Remotely controllable via RS-232 and IR remote

## 4×1 HDMI Switcher

CLUX-41N

Family Models • CLUX-21N • CLUX-31N



This switcher allows 4 HDMI sources to be connected to the same HDMI display. It has automatic or manual input selection and a “Last Memory” function that remembers the last input selection used. The EDID bypass function ensures the best resolution and Auto Signal Enhancement function improves signal quality for long distance transmission. This switcher is also DVI compatible with the use of DVI to HDMI adaptor.

- DVI 1.0 compatible and HDCP 1.x compliant
- Supports 24/30/36-bit color depth
- Supports HDMI 3D signals passthrough
- Supports PC resolutions: VGA, SVGA, XGA, SXGA, UXGA & WUXGA (RB)
- Supports HDTV resolution: 480i, 480p, 576i, 576p, 720p@50/60, 1080i@50/60 & 1080p@24/50/60
- Supports passthrough of all standard digital audio formats: LPCM 2.0/5.1/7.1, Bitstream, and HD Bitstream
- Last memory on power and input selection
- Auto signal enhancement that improves signal quality for long distance transmission
- Auto input detection with LED indicators
- Control via front panel buttons and IR remote control

## 4×1 HDMI Switcher

CLUX-41AP



This switcher allows 4 HDMI sources to be connected to the same HDMI display. It has Auto Signal Enhancement function improves signal quality for long distance transmission. This switcher is also DVI compatible with the use of DVI to HDMI adaptor.

- DVI 1.0 compatible and HDCP 1.x compliant
- Supports 30/36-bit color depth
- Supports PC resolutions: VGA, SVGA, XGA, SXGA, UXGA & WUXGA (RB)
- Supports HDTV resolutions: 480i, 480p, 576i, 576p, 720p, 1080i & 1080p
- Supports passthrough of all standard digital audio formats: LPCM 2.0/5.1/7.1, Bitstream, and HD Bitstream
- Auto signal enhancement that improves signal quality for long distance transmission
- Control via front panel buttons and IR remote control



## 4×1 HDMI Switcher

CHDMI-41

Family Model • CHDMI-31



This switcher is a high performance HDMI switcher with IR remote and RS-232 controls. It allows your various HDMI sources to share one HDMI display. Simply pressing one button to select your desired HDMI source for display on the TV/monitor.

- DVI 1.0 compatible and HDCP 1.x compliant
- Supports PC resolutions: VGA, SVGA, XGA, SXGA & UXGA
- Supports HDTV resolutions: 480i, 576i, 480p, 576p, 720p, 1080i & 1080p
- Signal enhancement selection that improves signal quality for long distance transmission
- Remotely controllable via RS-232 and IR remote

## 4×2 HDMI Switcher (Plus ARC & HEC Links)

CPR0-3D42S



This switcher is a four inputs & two outputs HDMI switcher. The output ports support Audio Return Channel (ARC) from a compatible ARC TV and HDMI Ethernet Channel (HEC) following the HDMI specification. This unit provides an S/PDIF link from the HDMI signal and output through the ARC port to an AVR/amplifier to get audio from the sink.

Additionally, the HEC feature adds a network connection to the HDMI link 100Mbps Ethernet connection. Using an HDMI with HEAC cable allows for the convenient integration of internet capable HEAC televisions into the end user's home network system.

- Supports 4 HDMI inputs and 2 simultaneous HDMI outputs
- Two output ports supporting Ethernet Channel (HEC) and Audio Return Channel (ARC) functions
- Deep Color support 36/30/24-bit
- 3D signal bypass
- EDID options include Standard, TV or Lock EDID settings
- Supports CEC bypass on HDMI OUT 1
- Supports HDMI compatible audio formats and S/PDIF audio formats passthrough
- Support EDID & CEC bypass
- Remotely controllable via RS-232 and IR remote

## 4×2 HDMI Switcher (Plus Analog Audio Inputs)

CLUX-42SA

Family Model • CLUX-42S



This switcher is a high performance HDMI switcher with IR remote and RS-232 controls. It allows your various HDMI sources to share two HDMI display simultaneously. Simply pressing one button to select your desired HDMI source for display on the TV/monitor. This unit supports an independent L/R input, allowing users to select their desired audio output (either from L/R or HDMI input) with an HDMI input connection. Furthermore, this switcher can also transfer Deep Color video and Bitstream digital audio.

- DVI 1.0 compatible and HDCP 1.x compliant
- Supports Deep Color up to 36-bit (12-bit/color)
- Supports passthrough of LPCM 2.0/5.1/7.1, Bitstream, and HD Bitstream audio formats (32~192kHz sampling rates)
- Supports a wide range of PC and HDTV resolutions from VGA to UXGA and 480i to 1080p
- Signal enhancement selection that improves signal quality for long distance transmission
- Simultaneously mix your L/R audio source with HDMI output display with four pairs of L/R audio inputs
- Support EDID & CEC bypass
- Remotely controllable via RS-232 and IR remote

## 4×2 HDMI Switcher

CLUX-42E

Last Gen. Model • CHDMI-42E



This switcher is a high performance HDMI switcher with IR remote and RS-232 controls. It allows your various HDMI sources to share two HDMI display simultaneously. Simply pressing one button to select your desired HDMI source for display on the TV/monitor.

- DVI 1.0 compatible and HDCP 1.x compliant
- Supports 4 HDMI inputs and 2 simultaneous HDMI outputs
- Supports Deep Color up to 36-bit (12-bit/color)
- Supports passthrough of LPCM 2.0/5.1/7.1, Bitstream, and HD Bitstream audio formats (32~192kHz sampling rates)
- Supports a wide range of PC and HDTV resolutions from VGA to UXGA and 480i to 1080p
- Signal enhancement selection that improves signal quality for long distance transmission
- Support xvYCC
- Support EDID & CEC bypass
- Remotely controllable via RS-232 and IR remote

## 4×2 HDMI Switcher (Independent Outputs)

CLUX-4S2

This switcher allows 4 HDMI sources to be connected to two independent HDMI display. It has Auto Signal Enhancement function improves signal quality for long distance transmission. This switcher is also DVI compatible with the use of DVI to HDMI adaptor.

- DVI 1.0 compatible and HDCP 1.x compliant
- Supports 4 HDMI inputs and 2 independent HDMI outputs
- Allows four HDMI sources to send audio/video signals to two HDMI displays independently
- Supports Deep Color up to 36-bit (12-bit/color)
- Supports high-definition input/output resolutions up to 1080p@60Hz
- Supports passthrough of all standard digital audio formats: LPCM 2.0/5.1/7.1, Bitstream, and HD Bitstream
- Auto signal enhancement that improves signal quality for long distance transmission
- Supports CEC bypass
- Remotely controllable via IR remote



## 8×1 HDMI Switcher

CLUX-C81C

Family Model • CLUX-C41C



This switcher allows four HDMI sources to share one HDMI TV/monitor. It features CEC control selection and supports Deep Color (30-bit or 36-bit), xvYCC, and RS-232 control. Simply press one button select your desired HDMI source to display on the TV/monitor or use remote control to control your sources from a distance. Switching from one HDMI input source to another will no longer be an inconvenience.

- HDCP 1.x compliant
- Supports 24/30/36-bit color depth (RGB/YCbCr 4:4:4)
- Color space supports YCbCr 4:2:2, 16/20/24-bit
- PC resolution supports VGA, SVGA, XGA, SXGA & UXGA
- HDTV resolution supports 480i, 576i, 480p, 576p, 720p, 1080i & 1080p
- Supports passthrough of all standard digital audio formats: LPCM 2.0/5.1/7.1, Bitstream, and HD Bitstream
- Signal enhancement selection that improves signal quality for long distance transmission
- Supports CEC selection of Bypass or On settings
- Supports xvYCC
- Remotely controllable via RS-232 and IR remote

## 8×1 HDMI Switcher

CLUX-81

Family Model • CLUX-61



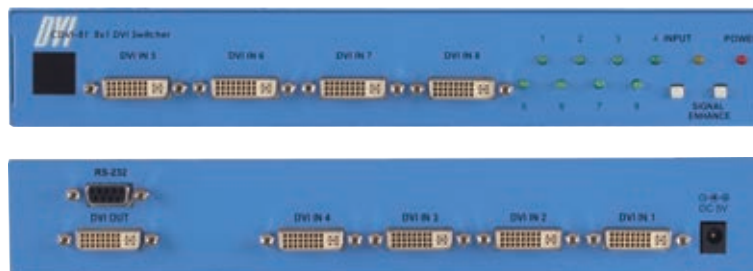
This switcher is a high performance HDMI switcher with IR remote and RS-232 controls. It allows your various HDMI sources to share one HDMI display. Simply pressing one button to select your desired HDMI source for display on the TV/monitor.

- DVI 1.0 compatible and HDCP 1.x compliant
- Supports PC resolutions: VGA, SVGA, XGA, SXGA, UXGA & WUXGA (RB)
- Supports HDTV resolutions: 480i, 576i, 480p, 576p, 720p, 1080i & 1080p
- Signal enhancement selection that improves signal quality for long distance transmission
- Remotely controllable via RS-232 and IR remote

## 8×1 DVI Switcher

CDVI-81

Family Models • CDVI-31 • CDVI-41 • CDVI-61



This family of DVI switchers is a high performance DVI switcher with IR remote and RS-232 controls. It allows your various DVI sources to share one DVI display. Simply pressing one button to select your desired DVI source for display on the TV/monitor.

- DVI 1.0 compatible and HDCP 1.x compliant
- Supports PC resolutions: VGA, SVGA, XGA, SXGA & UXGA
- Supports HDTV resolutions: 480i, 576i, 480p, 576p, 720p, 1080i & 1080p
- Signal enhancement selection that improves signal quality for long distance transmission
- Remotely controllable via RS-232 and IR remote

## 4×1 VGA Switcher

CPCD-41AR



This switcher is designed to switch between various High-definition (HD) and Standard-definition (SD) sources for sharing one TV/monitor display. Controlled either by the input selection button on the front panel or the supplied IR remote control, this unit allows you to select your desired HD/SD source for display on the TV/monitor with resolution up to WUXGA@60Hz (RB) or 1080p@60Hz.

- Four VGA or Component Video inputs and one VGA or Component Video output
- Supports PC resolutions: VGA, SVGA, XGA, SXGA, UXGA & WUXGA (RB)
- Supports HDTV resolutions: 480i, 576i, 480p, 576p, 720p, 1080i & 1080p
- Support analog stereo (L/R) audio
- High bandwidth performance: 650MHz (-3dB)
- Remotely controllable via RS-232 and IR remote

## 4×1 CV/SV Switcher

CVSD-41ARN



This switcher is designed to switch between various Standard-definition (SD) sources for sharing one TV/monitor. Controlled either by the input selection button on the front panel or the supplied IR remote control, this unit allows you to select your desired SD source for display on the TV/monitor with resolution up to 480i or 576i.

- Four Composite Video or S-Video inputs and one Composite Video or S-Video output
- Supports SDTV resolutions: 480i & 576i
- Support analog stereo (L/R) audio
- High bandwidth performance: 650MHz (-3dB)
- Remotely controllable via RS-232 and IR remote

## 4×1 Component Video Switcher

CHDD-41AR



This switcher is designed to switch between various High-definition (HD) and Standard-definition (SD) sources for sharing one TV/monitor. Controlled either by the input selection button on the front panel or the supplied IR remote control, this unit allows you to select your desired HD/SD source for display on the TV/monitor with resolution up to 1080p@60Hz.

- Four Component Video or Composite Video inputs and one Component Video or Composite Video output
- Supports HDTV resolutions: 480i, 576i, 480p, 576p, 720p, 1080i & 1080p
- Supports digital S/PDIF (Coaxial) and analog stereo (L/R) audio
- High bandwidth performance: 650MHz (-3dB)
- Remotely controllable via RS-232 and IR remote

## HDMI/HDBaseT Slimline Transmitter & Receiver (Plus ARC Link)

CH-1602TX

Family Model • CH-1602TXR



CH-1602RX

Family Model • CH-1602RXR



This transmitter and receiver set can send uncompressed audio/video along with control, LAN, and USB data over a single CAT5e/6/7 cable up to 100 meters. It has the added benefit of extending control and communication signals through the built-in LAN, RS-232, and IR ports. Independent external digital (Optical) and analog (Terminal Blocks) audio transmission capability gives users the extra convenience of additional audio connections.

This transmitter and receiver set also supports connecting any standard USB 2.0 host to the transmitter, enabling the extension of the USB connection to up to 2 USB ports located on the receiver, allowing it to act like a USB hub. The integrated 48V PoH (Power over HDBaseT) support provides power to the receiver (PD) from the transmitter (PSE), eliminating the need for a separate power supply for the receiver. The ultra-thin mechanical design allows for flexibility in mounting locations, saving space and making your presentation space orderly and tidy.

- Supports HDBaseT 2.0 specification over a single CAT6/7 cable up to 100m and CAT5e cable up to 90m
- HDBaseT 5Play™ convergence: High-definition audio/video, 100BaseT Ethernet, PoH (Power over HDBaseT), and control
- Supports resolutions up to 4K@60Hz (YUV 4:2:0) or WUXGA@60Hz (RB)
- Supports passthrough of all standard digital audio formats: LPCM 2.0/5.1/7.1, Bitstream, and HD Bitstream
- Supports LAN serving to Ethernet-enabled devices
- Receiver (PD) is powered by 48V PoH from the transmitter (PSE)
- Supports bidirectional IR/RS-232 passthrough
- Supports 1×USB 2.0 Mini-B port (on the transmitter) and 2×USB 2.0 Type A ports (on the receiver)
- Features external analog (Terminal Blocks) and digital (Optical) audio extension including support for Audio Return Channel (ARC)
- Supports S/PDIF audio sampling rates of 32kHz, 44.1kHz, 48kHz, and HDMI audio sampling rates up to 192kHz
- HDCP 2.2/1.4 compliant
- Ultra-thin mechanical design

## HDMI/HDBaseT Slimline Transmitter & Receiver

CH-1529TX

Family Model • CH-1529TXPL



CH-1529RX

Family Model • CH-1529RXPL



This transmitter and receiver set is a great solution for extending uncompressed HD audio/video and IP data over a single CAT5e/6/7 cable at distances up to 100 meters. Additionally, multiple types of control can be extended, including IR, RS-232, and Ethernet. This new extender set is HDCP 2.2/1.4 compliant with input support for UHD video up to 4K@60Hz (YUV 4:2:0).

In addition to the fantastic video support, these units also contain useful audio functionality. These units support the Optical Audio Return (OAR) function which allows for the transmission of optical audio from the Receiver to compatible Transmitters. The Transmitter supports audio insertion, allowing user-supplied stereo audio to be inserted into the HDMI signal.

Additionally, HDBaseT clock stretching and TMDS re-clocking functions have been added to increase signal stability. Last but not least, the Receiver (PD) can be powered by the Transmitter (PSE) via standard 48V PoH (Power over HDBaseT) allowing for greater flexibility in different installation scenarios.

- DVI 1.0 compatible and HDCP 2.2/1.4 compliant
- Supports up to 4K@60Hz (YUV 4:2:0) video input
- Transmission of uncompressed data over a single CAT5e/6/7 cable up to 100m (328 feet) at 1080p and 70m (230 feet) at 4K
- Supports HDBaseT output resolutions up to 4K@60Hz (YUV 4:2:0)
- Supports Deep Color up to 12-bit
- Supports HDMI DDC bus clock stretching for improved compatibility with certain Blu-ray players
- Performs TMDS re-clocking and signal re-generation for improved signal integrity
- Supports the Optical Audio Return (OAR) function to transmit optical audio from the receiver to compatible transmitters
- Supports the insertion of external stereo audio into the transmitted HDMI signal
- Comprehensive EDID management support including 6 pre-defined EDIDs, 9 user EDIDs, and an EDID bypass mode
- PC-based EDID management software allows for the uploading of customized user EDIDs via USB
- Simple firmware updates in the field via USB
- Ultra-slim case design for easy installation (only 16mm thick!)

## HDMI/HDBaseT Slimline Transmitter & Receiver

CH-1528TX



CH-1528RX



This transmitter and receiver set is a great solution for extending uncompressed HD audio/video and IP data over a single CAT5e/6/7 cable at distances up to 100 meters. In addition to the standard HDBaseT control extension support (bidirectional IR, RS-232, and Ethernet) these units can also extend a USB 2.0 keyboard and mouse set from the Receiver to the Transmitter. The Receiver (PD) can be powered by the Transmitter (PSE) via standard 48V PoH (Power over HDBaseT) allowing for greater flexibility in different installation scenarios.

- DVI 1.0 compatible and HDCP 1.x compliant
- Supports resolutions up to 4K UHD (10.2Gbps, 4K@60Hz, YUV 4:2:0)
- Supports Deep Color up to 12-bit
- Supports CEC bypass
- Transmission of uncompressed data over a single CAT5e/6/7 cable up to 100m (328 feet) at 1080p and 70m (230 feet) at 4K
- HDBaseT 5Play™ convergence: High-definition audio/video, 100BaseT Ethernet, PoH (Power over HDBaseT), and control (Bidirectional IR & RS-232 passthrough)
- USB 2.0 keyboard and mouse extension
- Supports standard 48V PoH from Transmitter (PSE) to Receiver (PD) (compatible Receivers only)
- Ultra-slim case design for easy installation (only 16mm thick!)

## HDMI/HDBaseT Slimline Receiver (PSE)

CH-2602RX



This receiver can receive uncompressed audio/video along with control, LAN, and USB data over a single CAT5e/6/7 cable up to 100 meters. It has the added benefit of extending control and communication signals through the built-in LAN, RS-232, and IR ports. Independent external digital and analog audio transmission capability gives users the extra convenience of additional audio connections. This receiver is designed to be used with the compatible transmitter only.

This receiver and its compatible transmitter as a set also supports connecting any standard USB 2.0 host to the transmitter, enabling the extension of the USB connection to up to 2 USB ports located on the receiver, allowing it to act like a USB hub. The integrated 48V PoH (Power over HDBaseT) support provides power to the transmitter (PD) from the receiver (PSE), eliminating the need for a separate power supply for the receiver. The ultra-thin mechanical design allows for flexibility in mounting locations, saving space and making your presentation space orderly and tidy.

- Supports HDBaseT 2.0 specification over a single CAT6/7 cable up to 100m and CAT5e cable up to 90m
- Supports resolutions up to 4K@60Hz (YUV 4:2:0) or WUXGA@60Hz (RB)
- Supports passthrough of all standard digital audio formats: LPCM 2.0/5.1/7.1, Bitstream, and HD Bitstream
- Supports LAN serving to Ethernet-enabled devices
- Receiver (PSE) can power compatible transmitter (PD) by 48V PoH
- Supports bidirectional IR/RS-232 passthrough
- Supports 2xUSB 2.0 Type A ports
- Supports external analog and digital audio extension including support for Audio Return Channel (ARC)
- Supports optical audio sampling rates up to 48kHz
- HDCP 2.2/1.4 compliant
- Ultra-thin mechanical design

## HDMI/HDBaseT Transmitter & Receiver (Plus ARC Link)

CH-1601TX



CH-1601RX



This transmitter and receiver set can send uncompressed audio/video along with control, LAN, and USB data over a single CAT5e/6/7 cable up to 100 meters. It has the added benefit of extending control and communication signals through the built-in LAN, RS-232, and IR ports. Independent external digital (Coaxial) and analog (L/R) audio transmission capability gives users the extra convenience of additional audio connections.

This transmitter and receiver set also supports connecting any standard USB 2.0 host to the transmitter, enabling the extension of the USB connection to up to 2 USB ports located on the receiver, allowing it to act like a USB hub. The integrated 48V PoH (Power over HDBaseT) support provides power to the receiver (PD) from the transmitter (PSE), eliminating the need for a separate power supply for the receiver.

- Supports HDBaseT 2.0 specification over a single CAT6/7 cable up to 100m and CAT5e cable up to 90m
- Supports resolutions up to 4K@60Hz (YUV 4:2:0) or WUXGA@60Hz (RB)
- Supports passthrough of all standard digital audio formats: LPCM 2.0/5.1/7.1, Bitstream, and HD Bitstream
- Supports LAN serving to Ethernet-enabled devices
- Receiver (PD) is powered by 48V PoH from the transmitter (PSE)
- Supports bidirectional IR/RS-232 passthrough
- Supports 1×USB 2.0 Type B port (on the transmitter) and 2×USB 2.0 Type A ports (on the receiver)
- Features external analog (L/R) and digital (Coaxial) audio extension including support for Audio Return Channel (ARC)
- Supports S/PDIF audio sampling rates of 32kHz, 44.1kHz, 48kHz, HDMI audio sampling rates up to 192kHz
- HDCP 2.2/1.4 compliant

## HDMI/HDBaseT Transmitter & Receiver

CH-1527TX

Family Model • CH-1527TXPL



CH-1527RX

Family Model • CH-1527RXPL



This transmitter and receiver set can send uncompressed audio/video over a single CAT5e/6/7 cable up to 100 meters. In addition to the audio and video capabilities, it can also bi-directionally transmit RS-232 and IR control signals as well as extend your LAN connectivity to a smart TV or a video game console. The receiver (PD) is powered by the 48V PoH (Power over HDBaseT) function of the transmitter (PSE), allowing for greater flexibility in installations.

- Supports the HDBaseT 1.0 specification over a single CAT5e/6/7 cable up to 100m
- Supports resolutions up to 4K@60Hz (YUV 4:2:0) and WUXGA@60Hz (RB)
- Supports passthrough of all standard digital audio formats: LPCM 2.0/5.1/7.1, Bitstream, and HD Bitstream
- Supports LAN serving to Ethernet-enabled devices
- Receiver (PD) is powered by 48V PoH from the transmitter (PSE)
- Supports bidirectional IR/RS-232 passthrough
- HDCP 1.x compatible

## HDMI/HDBaseT Transmitter & Receiver

CH-1109TXC



CH-1109RXC



This transmitter and receiver set can send uncompressed audio/video and IP data over a single run of CAT5e/6/7 cable at a distance of up to 100 meters with the added benefit of control through the built-in RS-232 and IR ports and 6 bidirectional LAN serving connections (3 on the receiver, 3 on the transmitter). The receiver can be powered by the 24V PoC (Power over Cable) function of the transmitter, allowing for greater flexibility in installations. Additionally, the transmitter features a HDMI bypass output that allows for local testing of the HDMI input.

- Supports high-definition video support up to 4K@60Hz (YUV 4:2:0) and WUXGA@60Hz (RB)
- Supports passthrough of all standard digital audio formats: LPCM 2.0/5.1/7.1, Bitstream, and HD Bitstream (32~192kHz sampling rates)
- Supports LAN serving to Ethernet-enabled devices
- Supports 24V power from Transmitter (PSE) to Receiver (PD)
- Supports bidirectional IR and RS-232 passthrough
- Simultaneous audio/video and data transmission over a single CAT5e/6/7 cable up to 100m
- HDCP 1.x compatible

## DVI/HDBaseT Transmitter & Receiver

CDVI-1109TXC



CDVI-1109RXC



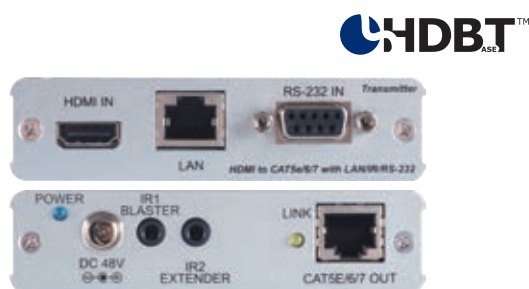
This transmitter and receiver set can send uncompressed audio/video and IP data over a single run of CAT5e/6/7 cable at a distance of up to 100 meters with the added benefit of control through the built-in RS-232 and IR ports and 4 bidirectional LAN serving connections (2 on the receiver, 2 on the transmitter). The receiver can be powered by the 24V PoC (Power over Cable) function of the transmitter, allowing for greater flexibility in installations.

- Supports high-definition video support up to 4K@60Hz (YUV 4:2:0) and WUXGA@60Hz (RB)
- Supports passthrough of all standard digital audio formats: LPCM 2.0/5.1/7.1, Bitstream, and HD Bitstream (32~192kHz sampling rates)
- Supports LAN serving to Ethernet-enabled devices
- Supports 24V power from Transmitter (PSE) to Receiver (PD)
- Supports bidirectional IR and RS-232 passthrough
- Simultaneous audio/video and data transmission over a single CAT5e/6/7 cable up to 100m
- HDCP 1.x compliant

## HDMI/HDBaseT Transmitter (PSE) & Receiver (PD)

CH-1507TX

CH-1507RX



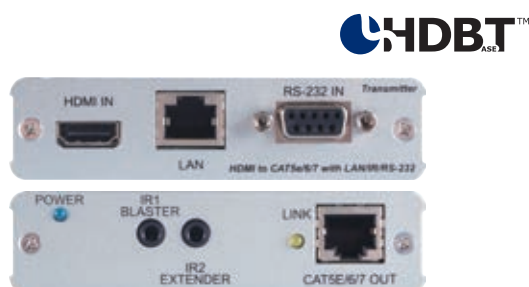
This transmitter and receiver set can send uncompressed audio/video and IP data over a single run of CAT5e/6/7 cable at a distance of up to 100 meters. It has the added benefit of control through the built-in RS-232 and IR ports and a bidirectional LAN serving connection. The receiver can be powered by the 48V PoH (Power over HDBaseT) function of the transmitter, allowing for greater flexibility in installations.

- Supports high-definition video support up to 4K@60Hz (YUV 4:2:0) and WUXGA@60Hz (RB)
- Supports passthrough of all standard digital audio formats: LPCM 2.0/5.1/7.1, Bitstream, and HD Bitstream (32~192kHz sampling rates)
- Supports LAN serving to Ethernet-enabled devices
- Supports standard 48V power from Transmitter (PSE) to Receiver (PD)
- Supports bidirectional IR and RS-232 passthrough
- Simultaneous audio/video and data transmission over a single CAT5e/6/7 cable up to 100m
- HDCP 1.x compatible

## HDMI/HDBaseT Transmitter (PD) & Receiver (PSE)

CH-2507TX

CH-2507RX



This transmitter and receiver set can send uncompressed audio/video and IP data over a single run of CAT5e/6/7 cable at a distance of up to 100 meters with the added benefit of control through the built-in RS-232 and IR ports and a bidirectional LAN serving connection. The transmitter can be powered by the 48V PoH (Power over HDBaseT) function of the receiver, allowing for greater flexibility in installations.

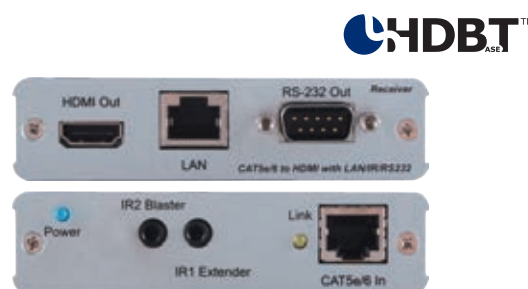
- Supports high-definition video support up to 4K@60Hz (YUV 4:2:0) and WUXGA@60Hz (RB)
- Supports passthrough of all standard digital audio formats: LPCM 2.0/5.1/7.1, Bitstream, and HD Bitstream (32~192kHz sampling rates)
- Supports LAN serving to Ethernet-enabled devices
- Supports standard 48V power from Receiver (PSE) to Transmitter (PD)
- Supports bidirectional IR and RS-232 passthrough
- Simultaneous audio/video and data transmission over a single CAT5e/6/7 cable up to 100m
- HDCP 1.x compatible

## HDMI/HDBaseT Transmitter & Receiver

CH-507TX



CH-507RX



This transmitter and receiver set can send uncompressed audio/video and IP data over a single run of CAT5e/6/7 cable at a distance of up to 100 meters. It has the added benefit of control through the built-in RS-232 and IR ports and a bidirectional LAN serving connection. The receiver can be powered by the 24V PoC (Power over Cable) function of the transmitter, allowing for greater flexibility in installations.

- Supports high-definition video support up to 4K@60Hz (YUV 4:2:0) and WUXGA@60Hz (RB)
- Supports passthrough of all standard digital audio formats: LPCM 2.0/5.1/7.1, Bitstream, and HD Bitstream (32~192kHz sampling rates)
- Supports LAN serving to Ethernet-enabled devices
- Supports 24V power from Transmitter (PSE) to Receiver (PD)
- Supports bidirectional IR and RS-232 passthrough
- Simultaneous audio/video and data transmission over a single CAT5e/6/7 cable up to 100m
- HDCP 1.x compatible

## HDMI/HDBaseT Transmitter & Receiver (Bidirectional 24V PoC)

CH-507TXBD

Family Model • CH-507TXWBD



CH-507RXBD

Family Model • CH-507RXWBD



This transmitter and receiver set can send uncompressed audio/video and IP data over a single run of CAT5e/6/7 cable up to 100 meters. It has the added benefit of control through the built-in RS-232 and IR passthrough ports and a bidirectional LAN serving connection. Additionally, it has bidirectional 24V PoC (Power over Cable) functionality that means only a single unit needs to be powered and can power the other unit via PoC, eliminating the need for a separate power supply for that unit.

- Supports high-definition video support up to 4K@60Hz (YUV 4:2:0) and WUXGA@60Hz (RB)
- Supports passthrough of all standard digital audio formats: LPCM 2.0/5.1/7.1, Bitstream, and HD Bitstream (32~192kHz sampling rates)
- Supports LAN serving to Ethernet-enabled devices
- Only a single unit needs to be powered and can power the other unit via 24V PoC
- Supports bidirectional IR and RS-232 passthrough
- Simultaneous audio/video and data transmission over a single CAT5e/6/7 cable up to 100m
- HDCP 1.x compatible

## HDMI/HDBaseT Transmitter & Receiver

CH-501TX



CH-501RX



This transmitter and receiver set can send uncompressed audio/video and IP data over a single run of CAT5e/6/7 cable at a distance of up to 100 meters with the added benefit of control through the built-in RS-232 and IR ports. Additionally, the transmitter features a HDMI bypass output that allows for local testing of the HDMI input.

- Supports high-definition video support up to 4K@60Hz (YUV 4:2:0) and WUXGA@60Hz (RB)
- Supports passthrough of all standard digital audio formats: LPCM 2.0/5.1/7.1, Bitstream, and HD Bitstream (32~192kHz sampling rates)
- Supports bidirectional IR and RS-232 passthrough
- Simultaneous audio/video and data transmission over a single CAT5e/6/7 cable up to 100m
- HDCP 1.x compatible

## HDMI/HDBaseT Transmitter & Receiver

CH-506TX

Family Model • CH-506TXL



CH-506RX

Family Model • CH-506RXL



This transmitter and receiver set can send uncompressed audio/video and IP data over a single run of CAT5e/6/7 cable up to 100 meters. It has the added benefit of control through the built-in RS-232 and IR passthrough ports. Additionally, it has bidirectional 24V PoC (Power over Cable) functionality that means only a single unit needs to be powered and can power the other unit via PoC, eliminating the need for a separate power supply for that unit.

- Supports high-definition video support up to 4K@60Hz (YUV 4:2:0) and WUXGA@60Hz (RB)
- Supports passthrough of all standard digital audio formats: LPCM 2.0/5.1/7.1, Bitstream, and HD Bitstream (32~192kHz sampling rates)
- Supports bidirectional IR and RS-232 passthrough
- Simultaneous audio/video and data transmission over a single CAT5e/6/7 cable up to 100m
- HDCP 1.x compatible

## HDMI/HDBaseT Transmitter & Receiver

CH-506TXPL



CH-506RXPL



This transmitter and receiver set can send uncompressed audio/video and IP data over a single run of CAT5e/6/7 cable up to 70 meters. It has the added benefit of control through the built-in RS-232 and IR passthrough ports. Additionally, it has bidirectional 24V PoC (Power over Cable) functionality that means only a single unit needs to be powered and can power the other unit via PoC, eliminating the need for a separate power supply for that unit.

- Supports high-definition video support up to 4K@60Hz (YUV 4:2:0) and WUXGA@60Hz (RB)
- Supports passthrough of all standard digital audio formats: LPCM 2.0/5.1/7.1, Bitstream, and HD Bitstream (32~192kHz sampling rates)
- Supports 24V power from Transmitter (PSE) to Receiver (PD)
- Supports bidirectional IR and RS-232 passthrough
- Simultaneous audio/video and data transmission over a single CAT5e/6/7 cable up to 70m
- HDCP 1.x compatible

## HDMI/HDBaseT Transmitter & Receiver (Bidirectional 24V PoC)

CH-506TXPLBD



CH-506RXPLBD



This transmitter and receiver set can send uncompressed audio/video and IP data over a single run of CAT5e/6/7 cable up to 70 meters. It has the added benefit of control through the built-in RS-232 and IR passthrough ports. Additionally, it has bidirectional 24V PoC (Power over Cable) functionality that means only a single unit needs to be powered and can power the other unit via PoC, eliminating the need for a separate power supply for that unit.

- Supports high-definition video support up to 4K@60Hz (YUV 4:2:0) and WUXGA@60Hz (RB)
- Supports passthrough of all standard digital audio formats: LPCM 2.0/5.1/7.1, Bitstream, and HD Bitstream (32~192kHz sampling rates)
- Only a single unit needs to be powered and can power the other unit via 24V PoC
- Supports bidirectional IR and RS-232 passthrough
- Simultaneous audio/video and data transmission over a single CAT5e/6/7 cable up to 70m
- HDCP 1.x compatible

## HDMI/HDBaseT Transmitter & Receiver

CH-514TXLN & CH-514RXLN

Last Gen. Models • CH-514TXL • CH-514RXL



This transmitter and receiver set can send uncompressed audio/video and IP data over a single run of CAT5e/6/7 cable up to 70 meters. It has the added benefit of control through the built-in IR passthrough ports. The compact and elegant mechanical design allows for flexibility in installations.

- Supports high-definition video support up to 4K@60Hz (YUV 4:2:0) and WUXGA@60Hz (RB)
- Supports passthrough of all standard digital audio formats: LPCM 2.0/5.1/7.1, Bitstream, and HD Bitstream (32~192kHz sampling rates)
- Supports bidirectional IR passthrough
- Simultaneous audio/video and data transmission over a single CAT5e/6/7 cable up to 70m
- HDCP 1.x compatible

CH-513TXLN & CH-513RXLN

Last Gen. Models • CH-513TXL • CH-513RXL



This transmitter and receiver set can send uncompressed audio/video and IP data over a single run of CAT5e/6/7 cable up to 70 meters. It has the added benefit of control through the built-in RS-232 and IR passthrough ports. The compact and elegant mechanical design allows for flexibility in installations.

- Supports high-definition video support up to 4K@60Hz (YUV 4:2:0) and WUXGA@60Hz (RB)
- Supports passthrough of all standard digital audio formats: LPCM 2.0/5.1/7.1, Bitstream, and HD Bitstream (32~192kHz sampling rates)
- Supports IR and RS-232 passthrough
- Simultaneous audio/video and data transmission over a single CAT5e/6/7 cable up to 70m
- HDCP 1.x compatible

## DVI/HDBaseT Transmitter & Receiver

CDVI-513TXL



This transmitter and receiver set can send uncompressed audio/video and IP data over a single run of CAT5e/6/7 cable up to 70 meters. The compact and elegant mechanical design allows for flexibility in installations.

CDVI-513RXL



- Supports high-definition video support up to 4K@60Hz (YUV 4:2:0) and WUXGA@60Hz (RB)
- Supports passthrough of all standard digital audio formats: LPCM 2.0/5.1/7.1, Bitstream, and HD Bitstream (32~192kHz sampling rates)
- Simultaneous audio/video and data transmission over a single CAT5e/6/7 cable up to 70m
- HDCP 1.x compatible

## HDMI/HDBaseT Wallplate Transmitter & Receiver

CH-1602TXWPUS & CH-1602RXWPUS



This transmitter and receiver set can send uncompressed audio/video along with control, LAN and USB data over a single CAT5e/6/7 cable up to 100 meters. It has the added benefit of extending control and communication signals through the built-in LAN, RS-232 and IR ports. Independent external digital and analog audio transmission capability gives users the extra convenience of additional audio connections.

This transmitter and receiver set also supports connecting any standard USB 2.0 host to the transmitter, enabling the extension of the USB connection to up to 2 USB ports located on the receiver, allowing it to act like a USB hub. The integrated 48V PoH (Power over HDBaseT) support provides power to the receiver (PD) from the transmitter (PSE), eliminating the need for a separate power supply for the receiver.

- Supports HDBaseT 2.0 specification over a single CAT6/7 cable up to 100m and CAT5e cable up to 90m
- HDBaseT 5Play™ convergence: High-definition audio/video, 100BaseT Ethernet, PoH (Power over HDBaseT), and control
- Supports resolutions up to 4K@60Hz (YUV 4:2:0) or WUXGA@60Hz (RB)
- Supports passthrough of all standard digital audio formats: LPCM 2.0/5.1/7.1, Bitstream, and HD Bitstream
- Supports LAN serving to Ethernet-enabled devices
- Receiver (PD) is powered by 48V PoH from the transmitter (PSE)
- Supports bidirectional IR/RS-232 passthrough
- Supports 1×USB 2.0 Type B port (on the transmitter) and 2×USB 2.0 Type A ports (on the receiver)
- Supports external analog and digital audio extension including



- support for Audio Return Channel (ARC)
- Supports optical audio sampling rates up to 48kHz
- HDCP 2.2/1.4 compliant
- US 2 gang size

## HDMI/HDBaseT Wallplate Transmitter & Receiver

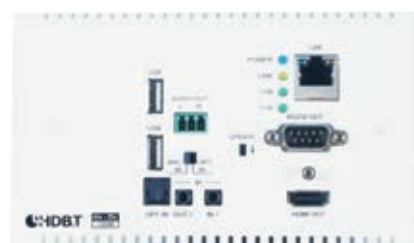
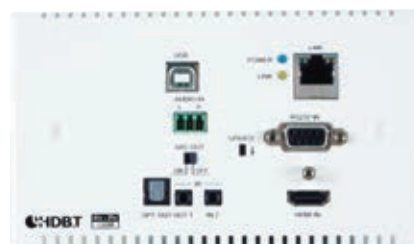
CH-1602TXWPUK & CH-1602RXWPUK



This transmitter and receiver set can send uncompressed audio/video along with control, LAN and USB data over a single CAT5e/6/7 cable up to 100 meters. It has the added benefit of extending control and communication signals through the built-in LAN, RS-232 and IR ports. Independent external digital and analog audio transmission capability gives users the extra convenience of additional audio connections.

This transmitter and receiver set also supports connecting any standard USB 2.0 host to the transmitter, enabling the extension of the USB connection to up to 2 USB ports located on the receiver, allowing it to act like a USB hub. The integrated 48V PoH (Power over HDBaseT) support provides power to the receiver (PD) from the transmitter (PSE), eliminating the need for a separate power supply for the receiver.

- Supports HDBaseT 2.0 specification over a single CAT6/7 cable up to 100m and CAT5e cable up to 90m
- HDBaseT 5Play™ convergence: High-definition audio/video, 100BaseT Ethernet, PoH (Power over HDBaseT), and control
- Supports resolutions up to 4K@60Hz (YUV 4:2:0) or WUXGA@60Hz (RB)
- Supports passthrough of all standard digital audio formats: LPCM 2.0/5.1/7.1, Bitstream, and HD Bitstream
- Supports LAN serving to Ethernet-enabled devices
- Receiver (PD) is powered by 48V PoH from the transmitter (PSE)
- Supports bidirectional IR/RS-232 passthrough
- Supports 1×USB 2.0 Type B port (on the transmitter) and 2×USB 2.0 Type A ports (on the receiver)
- Supports external analog and digital audio extension including



- support for Audio Return Channel (ARC)
- Supports optical audio sampling rates up to 48kHz
- HDCP 2.2/1.4 compliant
- UK 2 gang size

## HDMI/HDBaseT Wallplate Transmitter & Receiver



CH-1527TXWPUS & CH-1527RXWPUS



This transmitter and receiver set can send uncompressed audio/video over a single CAT5e/6/7 cable up to 100 meters. In addition to the audio and video capabilities, it can also bi-directionally transmit RS-232 and IR control signals as well as extend your LAN connectivity to a smart TV or a video game console. The receiver (PD) is powered by the 48V PoH (Power over HDBaseT) function of the transmitter (PSE), allowing for greater flexibility in installations.

- Supports the HDBaseT 1.0 specification over a single CAT5e/6/7 cable up to 100m
- Supports resolutions up to 4K@60Hz (YUV 4:2:0) and WUXGA@60Hz (RB)
- Supports passthrough of all standard digital audio formats: LPCM 2.0/5.1/7.1, Bitstream, and HD Bitstream
- Supports LAN serving to Ethernet-enabled devices
- Receiver (PD) is powered by 48V PoH from the transmitter (PSE)
- Supports bidirectional IR/RS-232 passthrough
- HDCP 1.x compliant
- US 2 gang size



## HDMI/HDBaseT Wallplate Transmitter & Receiver



CH-1527TXWPUK & CH-1527RXWPUK



This transmitter and receiver set can send uncompressed audio/video over a single CAT5e/6/7 cable up to 100 meters. In addition to the audio and video capabilities, it can also bi-directionally transmit RS-232 and IR control signals as well as extend your LAN connectivity to a smart TV or a video game console. The receiver (PD) is powered by the 48V PoH (Power over HDBaseT) function of the transmitter (PSE), allowing for greater flexibility in installations.

- Supports the HDBaseT 1.0 specification over a single CAT5e/6/7 cable up to 100m
- Supports resolutions up to 4K@60Hz (YUV 4:2:0) and WUXGA@60Hz (RB)
- Supports passthrough of all standard digital audio formats: LPCM 2.0/5.1/7.1, Bitstream, and HD Bitstream
- Supports LAN serving to Ethernet-enabled devices
- Receiver (PD) is powered by 48V PoH from the transmitter (PSE)
- Supports bidirectional IR/RS-232 passthrough
- HDCP 1.x compatible
- UK 2 gang size



## HDMI/HDBaseT Wallplate Transmitter & Receiver

CH-507TXWPUS & CH-507RXWPUS



This transmitter and receiver set can send uncompressed audio/video and IP data over a single run of CAT5e/6/7 cable up to 100 meters. It has the added benefit of control through the built-in RS-232 and IR passthrough ports and a bidirectional LAN serving connection. Additionally, it has bidirectional 24V PoC (Power over Cable) functionality that means only a single unit needs to be powered and can power the other unit via PoC, eliminating the need for a separate power supply for that unit.

- Supports high-definition video support up to 4K@60Hz (YUV 4:2:0) and WUXGA@60Hz (RB)
- Supports passthrough of all standard digital audio formats: LPCM 2.0/5.1/7.1, Bitstream, and HD Bitstream (32~192kHz sampling rates)
- Supports LAN serving to Ethernet-enabled devices
- Only a single unit needs to be powered and can power the other unit via 24V PoC
- Supports bidirectional IR and RS-232 passthrough
- Simultaneous audio/video and data transmission over a single CAT5e/6/7 cable up to 100m
- HDCP 1.x compatible
- US 2 gang size



## HDMI/HDBaseT Wallplate Transmitter & Receiver

CH-507TXWPBD & CH-507RXWPBD



This transmitter and receiver set can send uncompressed audio/video and IP data over a single run of CAT5e/6/7 cable up to 100 meters. It has the added benefit of control through the built-in RS-232 and IR passthrough ports and a bidirectional LAN serving connection. Additionally, it has bidirectional 24V PoC (Power over Cable) functionality that means only a single unit needs to be powered and can power the other unit via PoC, eliminating the need for a separate power supply for that unit.

- Supports high-definition video support up to 4K@60Hz (YUV 4:2:0) and WUXGA@60Hz (RB)
- Supports passthrough of all standard digital audio formats: LPCM 2.0/5.1/7.1, Bitstream, and HD Bitstream (32~192kHz sampling rates)
- Supports LAN serving to Ethernet-enabled devices
- Only a single unit needs to be powered and can power the other unit via 24V PoC
- Supports bidirectional IR and RS-232 passthrough
- Simultaneous audio/video and data transmission over a single CAT5e/6/7 cable up to 100m
- HDCP 1.x compatible
- UK 2 gang size



## HDMI/HDBaseT Wallplate Transmitter & Receiver

CH-506TXWP & CH-506RXWP



This transmitter and receiver set can send uncompressed audio/video and IP data over a single run of CAT5e/6/7 cable up to 100 meters. It has the added benefit of control through the built-in RS-232 and IR passthrough ports. Additionally, it has bidirectional 24V PoC (Power over Cable) functionality that means only a single unit needs to be powered and can power the other unit via PoC, eliminating the need for a separate power supply for that unit.

- Supports high-definition video support up to 4K@60Hz (YUV 4:2:0) and WUXGA@60Hz (RB)
- Supports passthrough of all standard digital audio formats: LPCM 2.0/5.1/7.1, Bitstream, and HD Bitstream (32~192kHz sampling rates)
- Supports 24V power from Transmitter (PSE) to Receiver (PD)
- Supports bidirectional IR and RS-232 passthrough
- Simultaneous audio/video and data transmission over a single CAT5e/6/7 cable up to 100m
- HDCP 1.x compatible
- US 2 gang size



## HDMI/HDBaseT Wallplate Transmitter (PD)

CH-2602TXWPUS



This transmitter can send uncompressed audio/video along with control, LAN, and USB data over a single CAT5e/6/7 cable up to 100 meters. It has the added benefit of extending control and communication signals through the built-in LAN, RS-232, and IR ports. Independent external digital and analog audio transmission capability gives users the extra convenience of additional audio connections. This transmitter is designed to be used with the compatible receiver only.

This transmitter and its compatible receiver as a set also supports connecting any standard USB 2.0 host to the transmitter, enabling the extension of the USB connection to up to 2 USB ports located on the receiver, allowing it to act like a USB hub. The integrated 48V PoH (Power over HDBaseT) support provides power to the transmitter (PD) from the receiver (PSE), eliminating the need for a separate power supply for the receiver. The wall-plate mechanical design allows for flexibility in mounting locations, saving space and making your presentation space orderly and tidy.

- Supports HDBaseT 2.0 specification over a single CAT6/7 cable up to 100m and CAT5e cable up to 90m
- Supports resolutions up to 4K@60Hz (YUV 4:2:0) or WUXGA@60Hz (RB)
- Supports passthrough of all standard digital audio formats: LPCM 2.0/5.1/7.1, Bitstream, and HD Bitstream
- Supports LAN serving to Ethernet-enabled devices
- Transmitter (PD) is powered by 48V PoH from the Receiver (PSE)
- Supports bidirectional IR/RS-232 passthrough
- Supports 1xUSB 2.0 Type B port
- Supports external analog and digital audio extension including



- support for Audio Return Channel (ARC)
- Supports optical audio sampling rates up to 48kHz
- HDCP 2.2/1.4 compliant
- Wall-plate mechanical design

## HDMI/HDBaseT Wallplate Receiver

CH-507RXWP

**Family Model** • CH-507RXWPL



This receiver can accept uncompressed audio/video and IP data over a single run of CAT5e/6/7 cable at a distance of up to 100 meters. It has the added benefit of control through the built-in RS-232 and IR ports and a bidirectional LAN serving connection. This receiver can be powered by the 24V PoC (Power over Cable) function of the transmitter, allowing for greater flexibility in installations.

- Supports high-definition video support up to 4K@60Hz (YUV 4:2:0) and WUXGA@60Hz (RB)
- Supports passthrough of all standard digital audio formats: LPCM 2.0/5.1/7.1, Bitstream, and HD Bitstream (32~192kHz sampling rates)
- Supports LAN serving to Ethernet-enabled devices
- Supports 24V power from Transmitter (PSE) to Receiver (PD)
- Supports bidirectional IR and RS-232 passthrough
- Simultaneous audio/video and data transmission over a single CAT5e/6/7 cable up to 100m
- HDCP 1.x compatible
- UK 2 gang size



## HDMI/HDBaseT Wallplate Receiver

CH-514RXWPL



This receiver can accept uncompressed audio/video and IP data over a single run of CAT5e/6/7 cable up to 70 meters. It has the added benefit of control through the built-in IR passthrough ports. The wall-plate mechanical design allows for flexibility in installations.

- Supports high-definition video support up to 4K@60Hz (YUV 4:2:0) and WUXGA@60Hz (RB)
- Supports passthrough of all standard digital audio formats: LPCM 2.0/5.1/7.1, Bitstream, and HD Bitstream (32~192kHz sampling rates)
- Supports bidirectional IR passthrough
- Simultaneous audio/video and data transmission over a single CAT5e/6/7 cable up to 70m
- HDCP 1.x compatible
- UK 2 gang size



## 8x8 HDMI to HDBaseT Transmitter with IR Matrixing

CSI-8H8CV2IR



This transmitter supports the transmission of uncompressed video (up to 1080p@60Hz) and multi-channel digital audio from eight HDMI sources to eight HDBaseT outputs over a single CAT5e/6/7 cable (up to 100m) for each output. It supports passing 7.1 channel LPCM digital audio as well as standard Bitstream and HD Bitstream audio formats.

This transmitter allows the point-to-point connection between source device and TVs/monitors and incorporates a cross-point IR matrix providing additional control over 8-input-8-output infrared channels. The 24V PoC (Power over Cable) function can power compatible receivers, providing greater flexibility in your installations.

- HDCP 1.x compliant
- Supports resolutions up to WUXGA@60Hz (RB) and 1080p@60Hz dependent upon the display's EDID
- Supports 3D signal display dependent upon the display's EDID
- Supports passthrough of all standard digital audio formats: LPCM 2.0/5.1/7.1, Bitstream, and HD Bitstream
- Supports bidirectional IR passthrough from the source and display locations
- Supports 24V PoC to compatible receivers
- Supports control of the matrix via RS-232, IR remote, and on-panel buttons
- 2U size design

## 8x8 HDMI to HDBaseT Transmitter

CSI-8H8CVTX



This transmitter supports the transmission of uncompressed video (up to 1080p@60Hz) and multi-channel digital audio from eight HDMI sources to eight HDBaseT outputs over a single CAT5e/6/7 cable (up to 100m) for each output. It supports passing 7.1 channel LPCM digital audio as well as standard Bitstream and HD Bitstream audio formats.

This transmitter can be used in conjunction with a HDMI matrix to provide switching control, allowing the display of any source device on any TVs/monitors. The 24V PoC (Power over Cable) function can power compatible receivers, providing greater flexibility in your installations.

- HDCP 1.x compliant
- Supports resolutions up to WUXGA@60Hz (RB) and 1080p@60Hz dependent upon the display's EDID
- Supports 3D signal display dependent upon the display's EDID
- Supports passthrough of all standard digital audio formats: LPCM 2.0/5.1/7.1, Bitstream, and HD Bitstream
- Supports 24V PoC to compatible receivers
- 1U size design

## HDBaseT to Dual HDMI Receiver

CH-526RX

**Family Model** • CH-526RXPL



This receiver can receive uncompressed audio, video and data over a single run of CAT5e/6/7 cable, from a compatible Transmitter, over distances up to 100m. This unit has the extra benefit of dual HDMI outputs with audio de-embedding to both balanced analog audio and coaxial digital audio outputs. Additionally, the unit has two shared LAN ports which greatly simplify the connection of multiple Ethernet-enabled devices, such as Smart TVs and game consoles, allowing them to share an Internet connection without the need of an additional network switch. The unit supports a bidirectional 24V PoC (Power over Cable) function that can power, or be powered by, a compatible Transmitter allowing for greater flexibility in installations.

- DVI 1.0 compatible and HDCP 1.x compliant
- Dual HDMI outputs (duplicated output)
- Supports resolutions up to 4K@60Hz (YUV 4:2:0, 10.2Gbps)
- Supports Deep Color up to 36-bit (12-bit/color)
- Reception of uncompressed data over a single CAT5e/6/7 cable up to 100m (328 feet) at 1080p and 70m (230 feet) at 4K
- HDBaseT convergence: High-definition audio/video, 100BaseT Ethernet, PoC (Power over Cable), and control (Bidirectional IR & RS-232 passthrough)
- Dual Ethernet ports for easy LAN distribution
- Supports bidirectional 24V PoC: Power can be provided from Transmitter to Receiver or Receiver to Transmitter (with compatible Transmitters only)
- Supports balanced analog audio output (L/R) extracted from the HDBaseT source
- Supports HDMI and coaxial digital audio sampling rates up to 192kHz



## HDBaseT to HDMI Receiver

CH-515RXPT



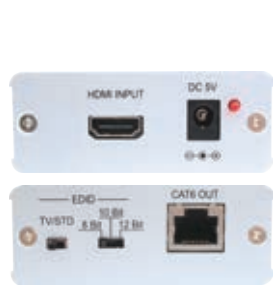
This receiver can accept uncompressed audio/video and IP data over a single run of CAT5e/6/7 cable up to distances of 100m. It has the added benefit of a bidirectional LAN serving, allowing devices such as a Smart TV or a game console to share an Internet connection. This receiver can be powered by 24V PoC (Power over Cable) from a compatible transmitter, allowing for greater flexibility in installations.

- Supports high-definition video support up to 4K@60Hz (YUV 4:2:0) and WUXGA@60Hz (RB)
- Supports passthrough of all standard digital audio formats: LPCM 2.0/5.1/7.1, Bitstream, and HD Bitstream (32~192kHz sampling rates)
- Supports 100BaseT Ethernet on compatible devices
- Supports 24V power from Transmitter (PSE) to Receiver (PD)
- Simultaneous audio/video and data transmission over a single CAT5e/6/7 cable up to 100m
- HDCP 1.x compatible



## HDMI over Single-CAT6 Transmitter & Receiver

CH-1107TX



This transmitter can provide HD video (up to 1080p@60Hz/Deep Color) and audio (including Bitstream and LPCM) over a single CAT6 cable to a compatible receiver and distribute the HDMI signal over long distances. It has the added benefit of TV and STD switch to select EDID for a connected HDTV.

- DVI 1.0 compatible and HDCP 1.x compliant
- Uses a single CAT6 cable for video and data/DDC transmission
- Supports Deep Color at up to 36-bit (12-bit/color) and xvYCC color space
- Supports passthrough of LPCM 2.0/5.1/7.1, Bitstream, and HD Bitstream audio formats
- EDID selection of TV (downstream) and STD (fixed) settings
- Equalizes and recovers the incoming TMDS data before re-transmitting it in optimal quality
- Supports HDMI cable distances of up to 20m@1080p/8-bit or 12-bit; CAT6 cable distances of up to 45m@1080p/8-bit and 10m@1080p/12-bit

CH-107RXN



This receiver can accept HD video (up to 1080p@60Hz/Deep Color) and audio (including Bitstream and LPCM) over a single CAT6 cable from a compatible transmitter and convert the signal to HDMI for display on a HDTV. It has the added benefit of a HDMI signal equalization wheel to optimize the signal strength.

- DVI 1.0 compatible and HDCP 1.x compliant
- Uses a single CAT6 cable for video and data/DDC transmission
- Supports Deep Color at up to 36-bit (12-bit/color) and xvYCC color space
- Supports passthrough of LPCM 2.0/5.1/7.1, Bitstream, and HD Bitstream audio formats
- EQ adjustment for HDMI signal strength
- Equalizes and recovers the incoming TMDS data before re-transmitting it in optimal quality
- Supports HDMI cable distances of up to 10m@1080p/8-bit or 12-bit; CAT6 cable distances of up to 45m@1080p/8-bit and 15m@1080p/12-bit

## HDMI over Single-CAT6 Transmitter & Receiver

CH-110TX



This transmitter and receiver set can send high-definition video (up to 1080p@60Hz/8-bit) and audio (including Bitstream and LPCM) over a single CAT6 cable and distribute the HDMI signal over long distances. The receiver has the added benefit of a HDMI signal equalization wheel to optimize the signal strength. Additionally, this transmitter and receiver set enable the control of source device via infrared signal.

CH-110RX



- DVI 1.0 compatible and HDCP 1.x compliant
- Uses a single CAT6 cable for video and data/DDC transmission
- Supports Deep Color at up to 24-bit (8-bit/color) and xvYCC color space
- Supports passthrough of LPCM 2.0/5.1/7.1, Bitstream, and HD Bitstream audio formats
- EQ adjustment for HDMI signal strength
- Equalizes and recovers the incoming TMDS data before re-transmitting it in optimal quality
- Supports HDMI input cable distances of up to 10m@1080p/8-bit and output cable distances of 15m@1080p/8-bit
- Supports CAT6 cable distances of up to 45m@1080p/8-bit

## HDMI over Dual-CAT6 Transmitter & Receiver

CH-1106TX

Last Gen. Model • CH-106TXN



CH-1106RXN

Last Gen. Model • CH-106RXN



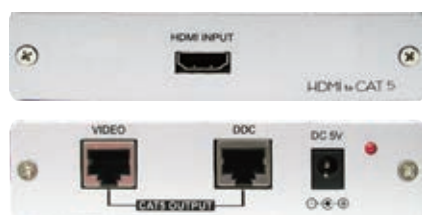
This transmitter and receiver set can send high-definition video (up to 1080p@60Hz/8-bit) and audio (including LPCM and Bitstream) over dual CAT6 cables and distribute the HDMI signal over long distances. Additionally, this transmitter and receiver set enable the control of source device via infrared signal.

- DVI 1.0 compatible and HDCP 1.x compliant
- Uses dual CAT6 cables for video and data/DDC transmission
- Supports high-definition digital video up to 1080p@60Hz and xvYCC color space
- Supports passthrough of LPCM 2.0/5.1/7.1, Bitstream, and HD Bitstream audio formats (32~192kHz sampling rates)
- Equalizes and recovers the incoming TMDS data before re-transmitting it in optimal quality
- Supports CEC signal bypass
- Supports HDMI input cable distances of up to 6m@1080p/8-bit and output cable distances of 10m@1080p/8-bit
- Supports CAT6 cable distances of up to 45m@1080p/8-bit
- Supports connection to a repeater or another transmitter and receiver set to extend the HDMI signal

## HDMI over Dual-CAT5 Transmitter & Receiver

CA-HDMIAT

Family Model • CA-DVIAT



CA-HDMI100R

Family Models • CA-HDMI50R • CA-DVI100R



This transmitter and receiver set can send high-definition video (up to 1080p@60Hz/8-bit) and audio (including LPCM and Bitstream) over dual CAT5 cables and distribute the HDMI signal over long distances.

- DVI 1.0 compatible and HDCP 1.x compliant
- Uses dual CAT5 cables for video and data/DDC transmission
- Supports high-definition digital video up to 1080p@60Hz and WUXGA@60Hz (RB)
- Supports lossy compressed Bitstream audio formats as well as uncompressed audio formats up to LPCM 2.0
- EQ adjustment for HDMI signal strength
- Gain adjustment for the brightness
- Supports CAT6 cable distances of up to 50m or 100m dependent on the receiver being used

## VGA over Single CAT5 Transmitter & Receiver

CA-COMPAT



This transmitter and receiver set can send high-definition video (UXGA@60Hz or 1080p@60Hz) and audio (including LPCM and Bitstream) over a single CAT5 cable and distribute the VGA or Component Video signal over long distances.

CA-COMP100R

Family Model • CA-COMP50R



- Uses a single CAT5 cable for video and data/DDC transmission
- Supports high-definition digital video up to UXGA@60Hz (RB) or 1080p@60Hz
- Supports lossy compressed Bitstream audio formats as well as uncompressed audio formats up to LPCM 2.0
- Gain adjustment for the brightness
- Supports CAT5 cable distances of up to 50m or 100m dependent on the receiver being used

## HDMI over Coaxial Transmitter & Receiver

CAC-TXA



This transmitter and receiver set is ideally suited for long distance transmission of high definition video and audio from PS3/DVD or Blu-ray devices to an HDMI display or AV Receiver. It can operate at distances up to 100m at HD resolutions (up to 1080p/8-bit resolution) and supports HDMI features such as Deep Color and HD Audio passthrough. The system's digital transmission format does not introduce delays or loss of image quality. There is also the option of powering the Receiver from the transmitter, making the system easy to install and operate.

CAC-RXA



- DVI 1.0 compatible
- Improved color gamut (i.e. Deep Color/xvYCC)
- High Definition audio (8-channel audio support)
- Supports High Resolutions from VGA (640×480) to WUXGA (1920×1200)
- Supports HDTV resolutions from 480i~1080p/12-bit
- Built-in Consumer Electronics Control (CEC)
- Supports Deep Color
- Supports VESA DDC, CEC, Hot Plug Detect (HPD) and xvYCC
- Gigabit digital transport needs:
  - HDMI/DVI (10.2Gb/s) on the RG6 type 75Ω coaxial cables can operate up to 100m at 10.8Gb/s
  - The receiver can be powered either from the supplied AC power adaptor or by the Transmitter unit over cable

# KVM over IP Transmitter & Receiver (Plus Network Switch)



CH-U331TX

CH-U331RX



This transmitter and receiver set is a multi-function video over IP extension solution with support for up to 4K UHD signal transmission. This transmitter and receiver pair is ideal for any household or commercial environment. The available input interfaces on the transmitter are HDMI (DVI compatible) and VGA. The receiver's HDMI video output supports resolutions up to 4K@30Hz. A line-in port is also provided for additional audio support. Both video and audio are converted to, and transmitted as, streaming video via IP to a compatible receiver.

The basic point to point transmission distance is 100 meters, however the distance can be extended further through the use of Gigabit network switches to reach across your local network offering the convenience of sharing your existing data network while extending the distribution distance. Additionally, it is possible for the user to cascade multiple units from the same device family to extend the transmission distance up to as long as needed without introducing additional signal loss or delay.

This transmitter and receiver set also includes additional functionality such as RS-232 & IR passthrough, line-out and microphone input features that allow the user to enjoy interaction with, and control over, their favorite audio equipment from a distance. These units provide intuitive control options including physical external controls with an OSD as well as a comprehensive WebGUI.

- 4K UHD HDMI support and HDCP 2.2/1.4 compliant
- Video and audio transmission over IP using H.264 compression
- Supports HDMI input resolutions up to 4K@60Hz (YUV 4:2:0) or 4K@30Hz (YUV 4:4:4)
- Supports VGA input resolutions up to WUXGA@60Hz (RB)
- Supports HDMI output resolutions up to 4K@30Hz (RGB)
- Supports passthrough of LPCM 2.0 and Bitstream audio formats
- Line-in on the transmitter for connection of analog audio sources
- Microphone input on the receiver
- Line-out connections on both the transmitter and receiver for connection to headphones or speakers
- Supports USB keyboards and mice for KVM applications
- Supports IR, RS-232, and CEC signals bypass
- Integrated 3 port network switch for single transmitter to multiple receiver applications

## KVM over IP Transmitter & Receiver

CH-U330TX



CH-U330RX



This transmitter and receiver set allows you to transmit HDMI or VGA signals over CAT5e/6/7 network cable. This set supports the transmission of UHD signals up to 4K@30Hz (YUV 4:4:4) or 4K@60Hz (YUV 4:2:0) along with audio and USB up to 100m on a single cable. The transmission distance can be further extended (up to 100m per segment) by using gigabit network switches allowing the user to cascade the system without signal loss or introducing delay. It is also possible to have the Transmitter operate in multicast mode, allowing you to send a single AV signal to a virtually unlimited number of Receivers within the same local network. This system is perfect for both residential and commercial installation environments.

This transmitter and receiver set also features bidirectional IR and RS-232 passthrough, analog line-level input/output, and a microphone input (on the Receiver), providing the user with a variety of audio options. The USB functionality allows this system to act like a remote USB hub which, when combined with the VGA input/output feature, provides a flexible remote KVM platform. Configuration information is provided via On-Screen Display (OSD) and control is by WebGUI and front panel controls.

- DVI 1.0 compatible and HDCP 2.2/1.4 compliant
- 1×HDMI input and output, 1×VGA input and output & 1×VGA bypass
- Video, audio and control transmission over TCP/IP
- HDMI input resolutions up to 4K@60Hz (YUV 4:2:0) or 4K@30Hz (YUV 4:4:4)
- HDMI output resolutions up to 4K@30Hz (YUV 4:4:4)
- 4K@60Hz (YUV 4:2:0) sources are automatically converted to 4K@30Hz (YUV 4:4:4) for output
- Supports passthrough of all standard digital audio formats: LPCM 2.0/5.1/7.1, Bitstream, and HD Bitstream
- Audio line in on Transmitter sends audio to the line out on connected Receivers
- Microphone input on Receiver for transmission to the Transmitter
- Supports USB keyboard and mouse extension
- Supports IR and RS-232 bypass

## HDMI 4K over Fiber Extender

COH-TX2



COH-RX2



This transmitter and receiver set is designed to extend your HDMI signal over multi-mode optical fiber cables for long distance transmission up to 300 meters, providing you with thinner and lighter cables for easier installation. With this transmitter and receiver set the HDMI signal is uncompressed and is fully compliant with HDCP.

- DVI 1.0 compatible and HDCP 1.x compliant
- Supports transmission distances up to 300 meters over OM3 (50/125um) multi-mode fiber optical cable
- Supports PC resolution up to WUXGA (RB) or TV resolution up to 4K@30Hz
- Supports the reading of EDID information

## HDMI over Fiber Extender

COH-TX1



COH-RX1



This transmitter and receiver set is designed to extend your HDMI signal over single-mode optical fiber cables for long distance transmission up to 300 meters, providing you with thinner and lighter cables for easier installation. With this transmitter and receiver set the HDMI signal is uncompressed and is fully compliant with HDCP.

- DVI 1.0 compatible and HDCP 1.x compliant
- Supports transmission distances up to 300 meters over Duplex single-mode fiber optical cable
- Supports PC resolution up to WUXGA (RB) or TV resolution up to 1080p@60Hz
- Supports the reading of EDID information

## HDMI over Fiber Extender

COH-TX



COH-RX



This transmitter and receiver set is designed to extend your HDMI signal over multi-mode optical fiber cables for long distance transmission up to 300 meters, providing you with thinner and lighter cables for easier installation. With this transmitter and receiver set the HDMI signal is uncompressed and is fully compliant with HDCP.

- DVI 1.0 compatible and HDCP 1.x compliant
- Supports transmission distances up to 300 meters over Duplex multi-mode fiber optical cable
- Supports PC resolution up to WXGA or TV resolution up to 1080p@30Hz
- Supports the reading of EDID information

## SDI over Fiber Extender

CLUX-SDI20F



CLUX-OF2SDI



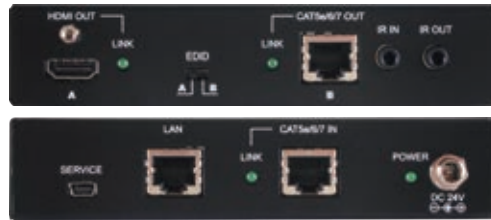
This transmitter and receiver set is designed to extend your SDI signals over single-mode optical fiber for long distance transmission up to 10 kilometers. Signals up to 3G-SDI bitrate can be sent without loss or compression with thinner and lighter cables for easier installations.

- SD-SDI standardized in SMPTE 259M-C@270Mbps
- HD-SDI standardized in SMPTE 292M@1.485Gbps & 1.485/1.001Gbps
- 3G-SDI standardized in SMPTE 424M/425M-A@2.970Gbps & 2.970/1.001Gbps
- SDI embedded audio up to 16 channels at 48kHz
- Automatic video format detection (3G/HD/SD)
- Robust error-free transmission of signals up to 10 kilometers over single-mode optical fiber cable (distance is dependent on the fiber module used)

## HDBaseT Repeater (Plus HDMI Output)

CHDBX-1H1CE

Family Model • CHDBX-1H1CPL



This repeater can receive uncompressed audio, video and data over a single run of CAT5e/6/7 cable, from a compatible Transmitter, over distances up to 100m. This signal can then be output via HDMI while simultaneously being re-transmitted, up to 100m, to another compatible HDBaseT Receiver or Repeater.

The EDID settings that the unit provides to the input is freely selectable between the 2 outputs (HDMI or HDBaseT). Audio and video support includes resolutions up to 4K UHD (10.2Gbps, 4K@60Hz, YUV 4:2:0) and multichannel digital audio formats such as 7.1 channel LPCM, Bitstream and HD Bitstream.

Additionally the unit provides a local LAN port for extending Ethernet to nearby equipment as well as support for bidirectional IR signal transmission. This unit also provides a 24V PoC (Power over Cable) function that can power a compatible HDBaseT Receiver allowing for greater flexibility in installations.

- DVI 1.0 compatible and HDCP 1.x compliant
- Simultaneous HDMI and HDBaseT outputs
- Supports resolutions up to 4K@60Hz (YUV 4:2:0, 10.2Gbps)
- Supports Deep Color up to 12-bit
- Reception and re-transmission of uncompressed data over a single CAT5e/6/7 cable up to 100m (328 feet) at 1080p@60Hz and 70m (230 feet) at 4K@60Hz (YUV 4:2:0)
- HDBaseT convergence: High-definition audio/video, 100BaseT Ethernet, PoC (Power over Cable), and control (Bidirectional IR & RS-232 passthrough)
- Supports 24V PoC from Repeater (PSE) to Receiver (PD) (compatible Receivers only)
- RS-232 is supported as a bypass signal only
- Multiple repeaters can be cascaded
- EDID source can be selected between the HDMI and HDBaseT outputs

## HDBaseT Repeater

CHDBX-1C

Family Model • CHDBX-1CL



This repeater can receive uncompressed audio, video and data over a single run of CAT5e/6/7 cable, from a compatible Transmitter, over distances up to 100m. This signal can then be output, up to 100m, to another compatible HDBaseT Receiver or Repeater.

Audio and video support includes resolutions up to 4K UHD (10.2Gbps, 4K@60Hz, YUV 4:2:0) and multichannel digital audio formats such as 7.1 channel LPCM, Bitstream and HD Bitstream.

Additionally the unit provides LAN distribution for extending Ethernet to nearby equipment as well as support for bidirectional IR signal transmission. This unit also provides a 24V PoC (Power over Cable) function that can be powered by a compatible HDBaseT Transmitter allowing for greater flexibility in installations.

- DVI 1.0 compatible and HDCP 1.x compliant
- Supports resolutions up to 4K@60Hz (YUV 4:2:0, 10.2Gbps)
- Supports Deep Color up to 12-bit
- Reception and re-transmission of uncompressed data over a single CAT5e/6/7 cable up to 100m (328 feet) at 1080p@60Hz and 70m (230 feet) at 4K@60Hz (YUV 4:2:0)
- HDBaseT signal extension up to 200m (300m with an additional Repeater)
- HDBaseT convergence: High-definition audio/video, 100BaseT Ethernet, PoC (Power over Cable), and control (Bidirectional IR & RS-232 passthrough)
- Supports 24V PoC from Transmitter (PSE) to Repeater (PD) (compatible Transmitter only)
- RS-232 is supported as a bypass signal only
- Multiple repeaters can be cascaded

## HDMI 6G Enhancer

CPLUS-VHHI



This unit is designed to enhance a weak HDMI signal and allow for additional signal extension. This unit supports PC based EDID management software which allows the user to upload a custom, or previously stored, EDID which can be used as an alternate EDID to be sent to the connected source device. The unit is designed with multiple indication LEDs to allow the user to quickly select a new EDID or view the status of the device.

- HDMI with 4K@60Hz support
- DVI 1.0 compatible and HDCP 2.2/1.4 compliant
- Direct EDID selection between internal, external and user EDID
- Supports 480i~1080p@24/25/50/60Hz, 4K@24/25/30/50/60Hz (RGB/YUV 4:4:4), and VGA~WUXGA (RB)
- Supports passthrough of all standard digital audio formats: LPCM 2.0/5.1/7.1, Bitstream, and HD Bitstream
- Supports Deep Color up to 12-bit
- Supports EDID management application software via USB
- LEDs display for fast viewing of the current selection status
- USB firmware update support



## HDMI 4K Enhancer

CPRO-UHH

Last Gen. Model • CS-HH



This unit is an advanced solution for extending or cascading an HDMI signal. It is designed to amplify and equalize the signal to provide high performance transfer of audio and video through HDMI cable for distance up to 10 meters at 4K@60Hz (YUV 4:2:0) and can be cascaded up to 5 layers and is capable of receiving and transmitting up to 3Gbps bandwidth rate with CDR (Clock Data Recovery) to ensure no loss of data. This unit can be powered by the HDMI output of suitability equipped source device (eliminating the need for a power supply) or an HDMI Power Inserter can be used.

- DVI 1.0 compatible and HDCP 2.2/1.4 compliant
- Built-in TMDS equalization and CDR (Clock Data Recovery) for extending operating distances over HDMI cables
- Supports resolutions up to 4K@60Hz (YUV 4:2:0) and 21:9 aspect ratio
- Supports HDMI input or output cable lengths up to 10 meters at 4K@60Hz (YUV 4:2:0) resolution
- Supports cascading of the HDMI signal to up to 5 layers
- Requires the HDMI source device to output power to the unit over HDMI cable
- Compact design



## HDMI 4K Equalizer

CPR0-11SR



This unit is an advanced solution for extending a HDMI 4K signal. It amplifies and equalizes the HDMI signal to provide high quality audio and video allowing you to extend the HDMI cable distance to a further 5-10 meters at 4K resolutions.

- DVI 1.0 compatible and HDCP 1.x compliant
- Supports HD and UHD resolutions up to 4K@24/25/30Hz
- Supports color depth up to 36-bit (Deep Color)
- Supports xvYCC color space
- Supports high-bit-rate (HBR) audio formats and sampling rates up to 192kHz
- Supports 3D and CEC signals bypass
- Supports the equalization and recovery of incoming TMDS data before re-transmission with optimal signal quality
- Supports maximum input and output HDMI cable lengths of up to 15 meters each at 1080p/8-bit resolution or 10 meters each at 1080p/12-bit resolution
- Supports maximum input HDMI cable lengths of up to 5 meters at 4K resolution
- Supports maximum output HDMI cable lengths of up to 10 meters at 4K resolution



## HDMI Equalizer

CP-1269HM



This unit enables HDMI/DVI signal to be run over long lengths of cable up to 50 meters. It automatically corrects digital errors and provides signal equalization to compensate for signal loss. This unit also eliminates digital noise (sparkles) to ensure perfect HD image quality over longer lengths of cable.

- DVI 1.0 compatible, HDCP 1.x compliant
- Supports TV resolutions up to 1080p @60Hz and PC resolutions up to WUXGA@60Hz (RB)
- Supports passthrough of LPCM 2.0/5.1/7.1, Bitstream, and HD Bitstream audio formats
- Supports transmission of 1080p@8-bit up to 40-50 meters over HDMI cable
- Supports transmission of 1080p@12-bit up to 30 meters over HDMI cable

## HDMI Equalizer

CH-101

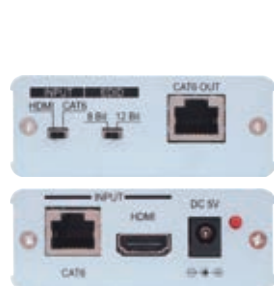


This unit equalizes and recovers the full HDMI signal to provide an "as new" signal allowing it to be repeated for being extended distances and cascaded multiple times. This unit can transmit Deep Color video and lossless compressed audio signals, with a high bandwidth up to 225MHz.

- DVI 1.0 compatible, HDCP 1.x compliant
- Supports Deep Color up to 36-bit and xvYCC
- Supports TV resolutions up to 1080p@60Hz and PC resolutions up to UXGA@60Hz
- Supports passthrough of LPCM 2.0/5.1/7.1, Bitstream, and HD Bitstream audio formats
- Supports transmission of 1080p@8-bit up to 15/10 (input/output) meters over HDMI cable
- Supports transmission of 1080p@12-bit up to 10/10 (input/output) meters over HDMI cable

## Single-CAT6 Repeater

CH-1107EX



**HDMI**  
HIGH-DEFINITION MULTIMEDIA INTERFACE

This unit is an advanced solution for HDMI and CAT6 signal distribution. The CAT6 output can be easily connected to a CAT6-to-HDMI receiver to allow a stable connection between a HDMI source and any compatible display. Alternatively, it can be cascaded to extend the signal to several hundred meters.

- DVI 1.0 compatible and HDCP 1.x compliant
- Features input selection of HDMI or CAT6 sources
- Features color depth selection of 8-bit or 12-bit
- Supports Deep Color up to 36-bit (12-bit/color)
- Supports passthrough of LPCM 2.0/5.1/7.1, Bitstream, and HD Bitstream audio formats
- Supports TV resolutions up to 1080p @60Hz and PC resolutions up to WUXGA@60Hz (RB)
- Supports transmission of 1080p@8-bit up to 45 meters over single CAT6 cable
- Supports transmission of 1080p@12-bit up to 15 meters over single CAT6 cable

## Dual-CAT6 Repeater

CH-108



**HDMI**  
HIGH-DEFINITION MULTIMEDIA INTERFACE

This unit equalizes and recovers the full HDMI signal to provide an “as new” signal allowing it to be repeated for being extended distances and cascaded multiple times over dual CAT6 cables. This unit can transmit Deep Color video and lossless compressed audio signals, with a high bandwidth up to 225MHz.

- DVI 1.0 compatible and HDCP 1.x compliant
- Supports Deep Color up to 36-bit (12-bit/color)
- Supports passthrough of LPCM 2.0/5.1/7.1, Bitstream, and HD Bitstream audio formats
- Supports TV resolutions up to 1080p @60Hz and PC resolutions up to UXGA@60Hz
- Supports transmission of 1080p@8-bit up to 45 meters over dual CAT6 cables
- Supports transmission of 1080p@12-bit up to 15 meters over dual CAT6 cables

## DVI 4K Enhancer

CLUX-DDP



This unit is a handy device for your DVI signal management toolbox. With single-link DVI and 3G HDMI bandwidth, as well as multiple EDID selection options, this unit provides you with a fast and efficient way to manage your DVI signal. This unit allows you to capture the EDID of a monitor to your PC, or upload a previously captured EDID from your PC, and use it as a custom user EDID to help solve compatibility issues within your system. The currently active EDID can be easily selected using a convenient button on the front of the unit.

- HDMI 1.4 compatible and HDCP 2.2/1.4 compliant
- Supports HD and UHD resolutions up to 4K@60Hz (YUV 4:2:0)
- Supports color depth up to 36-bit (Deep Color)
- Supports xvYCC color space
- Supports high-bit-rate (HBR) audio formats and sampling rates up to 192kHz
- EDID selection from an internal, external or user uploaded source
- LEDs provide convenient display of EDID selection status
- EDID application control via USB
- Firmware updates via USB
- Supports maximum input and output DVI cable lengths of up to 15 meters each at 1080p/8-bit resolution or 10 meters each at 1080p/12-bit resolution
- Supports maximum input and output DVI cable lengths of up to 5 meters each at 4K resolution



# Multi-Format to HDMI/HDBaseT Scaler

CDPS-84HB



This scaler has 1 Composite Video, 1 PC (VGA), 2 HDBaseT, and 4 HDMI inputs which can be freely selected for output at a scaled resolution of the user's choosing over the 1 HDBaseT and 2 HDMI outputs. This unit also includes separate analog and digital audio outputs to provide additional playback flexibility. HDMI and HDBaseT output resolutions up to 1080p/WUXGA (RB) are supported and Analog to Digital/Digital to Analog Conversion (ADC/DAC) functionalities allows for a wide range of AV signals to be displayed on the connected HDMI displays.

This unit has an additional HDMI bypass output allowing for local monitoring of the unscaled HDMI or HDBaseT sources and features full HDBaseT convergence for easy integration of compatible Transmitters and Receivers. This unit can be controlled via front panel buttons with an On-Screen Display (OSD), WebGUI, Telnet, RS-232, and IR remote making it exceptionally versatile. It is the perfect solution for any educational or commercial environment requiring integration of multiple AV sources and signal formats to three HDMI displays.

- HDCP 1.x compliant
- DVI 1.0 compatible with the use of an HDMI-DVI adaptor
- Features 4xHDMI inputs with corresponding analog audio (3.5mm mini-jack), 2xHDBaseT (CAT5e/6/7) inputs, 1xPC (15-pin D-Sub) input with analog audio (3.5mm mini-jack), and 1xComposite Video input with analog audio (2 RCA)
- Features 2xHDMI outputs and 1xHDBaseT (CAT5e/6/7) output with digital (coaxial) and analog (3.5mm mini-jack) audio
- Supports scaling of input signals to a full range of HD and PC resolutions up to 1080p@60Hz (8/10/12-bit color depth) and WUXGA@60Hz (RB)
- Simultaneous video output of the selected source through the HDBaseT and HDMI outputs, and audio output through the digital (coaxial) and analog (3.5mm) audio outputs
- Supports independent HDMI bypass output for local monitoring of the unscaled HDMI or HDBaseT sources
- Supports Digital to Analog signal conversion (DAC)
- Supports Analog to Digital signal conversion (ADC)
- HDMI audio input and output supports LPCM 2.0 audio format and 48kHz sample rate
- HDMI audio extraction to digital coaxial (LPCM 2.0 only) and analog stereo outputs
- HDBaseT convergence: High-definition audio/video, 100BaseT Ethernet, PoC (Power over Cable), and control (Bidirectional IR & RS-232 passthrough)
- HDBaseT output supports 24V PoC to compatible Receiver
- Provides a LAN connection for extending Ethernet to nearby devices
- Supports transmission of uncompressed data over a single CAT5e/6/7 cable up to 100m (328 feet) at 1080p@60Hz
- Supports control via front-panel buttons, IR remote, RS-232, Telnet, and WebGUI
- Output picture adjustments include: contrast, brightness, hue, saturation, sharpness, RGB (color tone) level, and aspect ratio
- Overscan or underscan output is freely selectable
- HDCP management control improves display compatibility with certain sources

## HDMI/DP/VGA to HDMI/HDBaseT Scaler



CSC-103TXPL



This scaler supports 5 inputs including 2 HDMI, 2 VGA, and 1 DisplayPort. Any selected source will be scaled to your preferred resolution for output over HDMI and HDBaseT. High-definition resolutions up to 1080p@60Hz are achievable. It also offers audio application flexibility including multiple unbalanced audio inputs, a 1/4" mic input (with support for optional 48V phantom power) and one line out port.

This scaler contains an audio DSP engine with auto-mixer and auto-gain functions, allowing for the mic source to be mixed with the audio from one of the video sources while reducing the background audio in order to enhance the primary audio source. This scaler can be easily controlled and configured with the built-in WebGUI, or via Telnet, IR remote or RS-232. This scaler is an ideal solution for presentations in classrooms and conference rooms.

- HDCP 1.x compliant
- Supports multiple inputs from 2xHDMI, 2xVGA, 1xDisplayPort, 3xUnbalanced audio, 1xMicrophone (w/ 48V phantom power option)
- Scaler outputs to 1xHDMI and 1xHDBaseT (mirrored)
- Supports HD resolutions up to 1080p@60Hz and PC from VGA to WUXGA@60Hz (RB)
- Supports output resolutions up to 1080p@60Hz
- Supports passthrough of 2 channel PCM audio
- Audio DSP with auto mixer and gain control for mixing audio and reducing background audio
- Supports internal EDID
- Device can be controlled via WebGUI, Telnet, IR remote and RS-232
- Receives or transmits IR signals from compatible receivers bi-directionally
- Remote control provides discreet input source selection

## HDMI/HDBaseT to Dual HDMI Scaler

CDPS-US100R



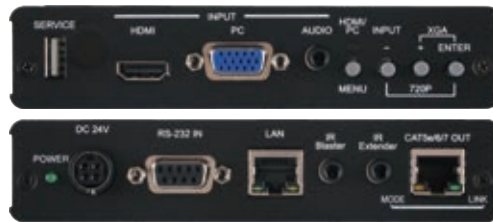
This scaler is designed to extend and upscale HDMI signals for simultaneous output to two HDMI displays along with balanced analog audio. It supports 4K@30Hz video, 3D, 36-bit Deep Color, HD audio as well as other features defined by the latest HDMI specification. HDBaseT support allows for uncompressed video and audio, as well as bidirectional IR control, RS-232 passthrough, and LAN extension via a single CAT5e/6/7 cable at up to 100m.

The management of source/sink scenarios can be controlled easily through the front-panel, OSD, IR remote control, RS-232 or WebGUI. The 24V PoC (Power over Cable) function can power compatible 24V transmitters, providing greater flexibility in installations.

- HDCP 1.x compliant
- Supports HDTV resolutions up to 4K (4096x2160@24/25/30Hz & 3840x2160@24/25/30Hz)
- Supports down-scaling HD resolutions to lower res monitors/displays
- Supports data rates up to 300MHz/9Gbps with Deep Color support up to 1080p 36-bit
- Supports mirrored output to two connected HDMI displays
- Extend HDMI, IR, RS-232 signal up to 100m through CAT5e/6/7 cable
- Supports balanced audio output and bidirectional IR control
- Supports Ethernet transmission rates up to 100Mbps
- Supports control via front panel, OSD, WebGUI, RS-232 and IR remote

## HDMI/VGA to HDBaseT Scaler

CH-520TXAHS



This HDMI video scaler with LAN/IR/RS-232/Bidirectional PoC over a single CAT5e/6/7 Transmitter can send uncompressed audio, video, and data across a single run of CAT5e/6/7 cable to a compatible Receiver over distances of up to 100m. The input can be freely selected between HDMI AND VGA with the scaled output sent over HDBaseT. A full range of HD and PC resolutions are supported, for both input and output, up to 1080p@60Hz and WUXGA@60Hz (RB). An analog audio input is provided to supply an audio source to use with the VGA input.

This unit provides a variety of control methods including front-panel buttons with OSD (On-Screen Display), RS-232, and IR remote. The unit also includes a bidirectional 24V PoC (Power over Cable) function that can power, or receive power from, a compatible Receiver allowing for greater flexibility in installations.

- DVI 1.0 compatible and HDCP 1.x compliant
- Accepts HDMI and VGA inputs (10/12-bit Deep Color) and outputs a scaled HDBaseT signal (8-bit)
- Analog 3.5mm mini-jack input to provide audio for the VGA input
- Supports a full range of HD and PC resolutions, for both input and scaled output, up to 1080p@60Hz and WUXGA@60Hz (RB)
- Transmission of uncompressed data over a single CAT5e/6/7 cable up to 100m (328 feet) at 1080p@60Hz
- HDBaseT convergence: High-definition audio/video, 100BaseT Ethernet, PoC (Power over Cable), and control (Bidirectional IR & RS-232 passthrough)
- Supports bidirectional 24V PoC: Power can be provided from Transmitter to Receiver or Receiver to Transmitter (with compatible Receivers only)
- Supports the display of system information via OSD (On-Screen Display)

## HDMI/HDBaseT to HDMI Scaler

CH-521RXHS



This HDMI video scaler with LAN/IR/RS-232/Bidirectional PoC over Single CAT5e/6/7 Receiver can receive uncompressed audio, video, and data across a single run of CAT5e/6/7 cable from a compatible Transmitter over distances of up to 100m. The input can be freely selected between HDMI and HDBaseT with the scaled output sent out as an HDMI signal. A full range of HD and PC resolutions are supported, for both input and output, up to 1080p@60Hz and WUXGA@60Hz (RB). A digital optical output is also provided to support audio breakout.

This unit provides a variety of control methods including front-panel buttons with OSD (On-Screen Display), RS-232, and IR remote. The unit also includes a bidirectional 24V PoC (Power over Cable) function that can power, or receive power from, a compatible Transmitter allowing for greater flexibility in installations.

- DVI 1.0 compatible and HDCP 1.x compliant
- Input is selectable between HDMI and HDBaseT (10/12-bit Deep Color) and the output is a scaled HDMI signal (8-bit)
- Supports a full range of HD and PC resolutions, for both input and scaled output, up to 1080p@60Hz and WUXGA@60Hz (RB)
- Digital optical output for audio breakout
- Supports uncompressed digital audio format LPCM 2.0 over both HDMI and optical
- Supports audio sampling rates up to 48kHz
- Reception of uncompressed data over a single CAT5e/6/7 cable up to 100m (328 feet) at 1080p@60Hz
- HDBaseT convergence: High-definition audio/video, 100BaseT Ethernet, PoC (Power over Cable), and control (Bidirectional IR & RS-232 passthrough)
- Supports bidirectional 24V PoC: Power can be provided from Transmitter to Receiver or Receiver to Transmitter (with compatible Transmitters only)
- Supports the display of system information via OSD

## VGA/CV to HDBaseT Scaler

CH-516TXAS



This scaler is an HDBaseT™ Transmitter Scaler supporting PC or Composite Video (CV) input. It can scale and switch the video sources, and send the digitalized signal over a single run of CAT5e/6/7 cable to the Receiver at a distance up to 100 meters, along with an external audio input, 2-way IR, RS-232 and bidirectional LAN serving. Control is via on-panel buttons or IR remote control and there is an On-screen Display (OSD) providing selection and system information. The device provides a full range of output resolutions, up to 1080p and WUXGA (RB). The bidirectional 24V PoC (Power over Cable) function provides greater flexibility in installations.

- Analog to Digital video signal conversion
- Extend the operating distance of a CV/PC video signal
- Supports PC/CV scaling to a full range of HDTV or PC resolutions up to 1080p and WUXGA (RB)
- Transmission of uncompressed data over a single CAT5e/6/7 cable up to 100m/328ft
- HDBaseT convergence: High-definition audio/video, 100BaseT Ethernet, PoC (Power over Cable), and control (Bidirectional IR & RS-232 passthrough)
- Supports IR, Remote control, RS-232 (bypass) and on-panel controls
- Provides bidirectional 24V DC power to or receive from compatible PoC receiver through CAT5e/6/7 cable
- Supports Ethernet transmission rates up to 100 Mbps
- Supports NTSC and PAL formats for Composite Video input

## HDBaseT to HDMI Scaler

CH-517RXHS



This scaler is an HDBaseT™ Receiver Scaler designed to scale the incoming video signal first, before outputting to its HDMI port. There is an Optical port providing additional audio extraction feature. Besides video and audio from the Transmitter, it also takes in 2-way IR, RS-232 and bidirectional LAN serving, over a single run of CAT5e/6/7 cable at a distance up to 100 meters. Control is via on-panel buttons or IR remote control and there is an On-screen Display (OSD) providing selection and system information. The device provides a full range of output resolutions, up to 1080p and WUXGA (RB). The bidirectional 24V PoC (Power over Cable) function provides greater flexibility in installations.

- Upscale HDMI output to HDTV/PC resolutions
- Extend the operating distance of an HDMI signal
- Supports HDMI scaling to a wide range of HDTV or PC resolutions up to 1080p and WUXGA (RB)
- Reception of uncompressed data over a single CAT5e/6/7 cable up to 100m/328ft
- HDBaseT convergence: High-definition audio/video, 100BaseT Ethernet, PoC (Power over Cable), and control (Bidirectional IR & RS-232 passthrough)
- Supports IR, Remote control, RS-232 (bypass) and on-panel controls
- Provides bidirectional 24V DC power to or receive from compatible Transmitter through CAT5e/6/7 cable
- Supports Ethernet transmission rates up to 100 Mbps
- Supports HDMI, Optical (S/PDIF) audio sampling rates up to 48kHz
- Supports HDMI and Optical (S/PDIF) audio up to LPCM 2.0

## HDMI 6G to HDMI/HDBaseT Scaler (Integrated Test Patterns)



CSC-6012TX



This scaler can send uncompressed audio/video along with control, Ethernet, and extra audio data over a single run of CAT5e/6/7 cable up to 100m. Both the HDMI input and local HDMI output support video signals up to 4K@60Hz (4:4:4, 8-bit). For transmission over the HDBaseT output the signal can be converted to 4K@60Hz (YUV 4:2:0, 8-bit) or 1080p@60Hz, if necessary, in order to fit within HDBaseT bandwidth limitations. Simple 18Gbps HDMI test patterns are also available to be output.

Control of remote devices is possible via bidirectional RS-232, IR ports as well as a LAN connection. A balanced analog audio output provides users with additional audio flexibility. The 48V PoH (Power over HDBaseT) design can power the connected Receiver (PD), eliminating the need for an extra power supply while the Transmitter itself is powered through the local 24V power supply.

- Supports 4K video over a single CAT7 cable up to 100m and CAT5e/6 cable up to 70m
- HDMI with 18Gbps (600MHz) 4K support and HDCP 2.2/1.4 compliant
- Upscales 1080p signals to 4K over HDBaseT output or downscales 4K signal to 1080p (same framerate is maintained)
- Support signal bypass on HDMI output
- 4K UHD (YUV 4:4:4) to 4K UHD (YUV 4:2:0) conversion
- Supports data rates up to 18Gbps (600MHz) and Deep Color up to 1080p, 48-bit
- Supports UHD resolutions up to 3840×2160@50/60Hz (YUV 4:4:4) & 4096×2160@50/60Hz (YUV 4:4:4)
- Supports passthrough of all standard digital audio formats: LPCM 2.0/5.1/7.1, Bitstream, and HD Bitstream
- Supports OAR and DAC audio balance conversion
- Test pattern generation at select resolutions and integrated EDID management
- OSD with instant I/O resolution display

## HDBaseT to Dual HDMI 6G Scaler (Integrated Test Patterns)



CSC-6012RX



This scaler can receive uncompressed audio/video along with control, Ethernet, and extra audio data over a single run of CAT5e/6/7 cable up to 100m. While the HDBaseT input is limited to a maximum of 4K@60Hz (YUV 4:2:0), this unit can automatically convert or scale the input to output at 4K@60Hz (YUV 4:4:4) depending on the detected capability of the connected display. Simple 18Gbps HDMI test patterns are also available to be output for easy testing of local equipment.

Control of remote devices is possible via bidirectional RS-232, IR ports as well as a LAN connection. Digital OAR (Optical Audio Return) support at 48kHz and a balanced analog audio output provides users with additional audio flexibility. The 48V PoH (Power over HDBaseT) design can receive power from the connected Transmitter (PSE), eliminating the need for a local power supply, however power via 5V power supply is also supported if needed.

- Supports 4K video over a single CAT7 cable up to 100m and CAT5e/6 cable up to 70m
- HDMI with 18Gbps (600MHz) 4K support and HDCP 2.2/1.4 compliance
- Support signal bypass on both outputs or output B can upscale 1080p signals to 4K and output A can downscale a 4K signal to 1080p (same framerate is maintained)
- 4K UHD (YUV 4:2:0) to 4K UHD (YUV 4:4:4) conversion
- Supports data rates up to 18Gbps (600MHz) and Deep Color up to 1080p, 48-bit
- Supports UHD resolutions up to 3840×2160@50/60Hz (YUV 4:4:4) & 4096×2160@50/60Hz (YUV 4:4:4)
- Supports passthrough of all standard digital audio formats: LPCM 2.0/5.1/7.1, Bitstream, and HD Bitstream
- Supports OAR and DAC audio balance conversion
- Test pattern generation at select resolutions and integrated EDID management
- OSD with instant I/O resolution display

## Multi-Format to HDMI/VGA Scaler

CSC-5500



This scaler has 1 Composite Video, 1 Component Video, 3 PC (VGA), and 3 HDMI inputs which can be freely selected for output at a scaled resolution of the user's choosing over the HDMI and PC/HD outputs. This unit also includes separate analog and digital audio outputs to provide additional playback flexibility. HDMI output resolutions up to 1080p/WUXGA (RB) are supported and Analog to Digital/Digital to Analog Conversion (ADC/DAC) functionalities allows for a wide range of AV signals to be displayed on the connected HDMI display. The unit can be controlled via front panel buttons with an On-Screen Display (OSD), WebGUI, Telnet, RS-232, and IR remote making it exceptionally versatile.

- Supports switching and scaling of multiple AV inputs (3xHDMI, 3xVGA, 1xComponent Video, 1xComposite Video) to HDMI or PC/HD outputs
- DVI 1.0 compatible
- Supports EDID and HDCP compliance
- Supports output resolutions up to 1080p/WUXGA (RB)
- Supports 3D de-interlace, noise reduction and 3D comb filter for Composite Video sources
- Supports frame rate conversion
- Supports passthrough of all standard digital audio formats: LPCM 2.0/5.1/7.1, Bitstream, and HD Bitstream
- Supports Digital to Analog (DAC) and Analog to Digital (ADC) audio conversion
- Supports non-HDCP mode for compatibility with certain displays
- Supports quick output resolution switching via hot keys
- Front-panel with OSD, RS-232, Telnet, WebGUI, and IR remote controls

## Multi-Format to HDMI/VGA Scaler (Plus SDI Bypass Output)

CSLUX-300I

Family Model • CSLUX-300



This scaler is an advanced HDMI, PC, SDI, Composite Video, S-Video and Component switcher/scaler. This device can scale and switch input sources and display them to its HDMI and VGA/HD outputs simultaneously, with their associated audio signals, at a wide range of output resolutions up to 1080p or WUXGA (RB). It also has the added benefit of an SDI Loop Out for monitoring or extending the SDI input signal. Control is via the IR remote, RS-232, or via front panel buttons and includes an on-screen menu providing settings and system information.

- Supports HDMI, Composite Video, S-Video, PC (VGA)/HD (Component) and SDI inputs
- Supports HDMI and VGA/Component (with adaptor) outputs
- Supports SDI loop through output

- Supports analog stereo, optical and coaxial digital inputs and optical digital output, analog stereo output or embedding to HDMI output
- Supports conversion of multiple video formats and audio input to HDMI or PC/HD and analog stereo outputs
- Supports EDID and HDCP
- Supports 3D de-interlacing, noise reduction and 3D comb filter
- Supports frame rate conversion
- Supports RS-232, remote handset, and front panel control
- Supports SDI Standards of SMPTE 424M/425M-A, SMPTE 292M, SMPTE 259M-C
- Supports SDI bit rates at 2.970Gbps & 2.970/1.001Gbps, 1.485Gbps & 1.485/1.001Gbps and 270Mbps
- Supports SDI signal input and output distances of up to 300m for SD signals, 200m for HD signals and 100m for 3G signals

## HDMI/VGA/CV to HDMI Scaler

CSC-5500R



This scaler has 2 Composite Video, 1 PC (VGA), and 3 HDMI inputs which can be freely selected for output at a scaled resolution of the user's choosing over the HDMI output. This unit also includes separate analog and digital audio outputs to provide additional playback flexibility. HDMI output resolutions up to 1080p/WUXGA (RB) are supported and Analog to Digital Conversion (ADC) functionality allows for a wide range of AV signals to be displayed on the connected HDMI display. The unit can be controlled via front panel buttons with an On-Screen Display (OSD), WebGUI, Telnet, RS-232, and IR remote making it exceptionally versatile.

- DVI 1.0 compatible and HDCP 1.x compliant
- Supports switching and scaling of multiple AV inputs (3xHDMI, 1xVGA, 2xComposite Video) to one HDMI output
- Supports output resolutions up to 1080p/WUXGA (RB)
- Supports 3D de-interlace, noise reduction and 3D comb filter for Composite Video sources
- Supports frame rate conversion
- Supports passthrough of all standard digital audio formats: LPCM 2.0/5.1/7.1, Bitstream, and HD Bitstream
- Supports Analog to Digital (ADC) and audio conversion
- Supports non-HDCP mode for compatibility with certain displays
- Supports EDID function for optimal display data communications
- Supports quick output resolution switching via hot keys
- Front-panel with OSD, RS-232, Telnet, WebGUI, and IR remote controls



## HDMI/VGA to HDMI 6G Scaler

CSC-6011



This scaler accepts a wide range of resolutions from 480i up to 1080p/WUXGA for PC/HD and up to 4K@60Hz (YUV 4:4:4) for HDMI with the ability to scale the output to a selectable resolution up to 4K@60Hz (YUV 4:4:4) with simultaneous de-embedded, digital optical and analog audio output. 3-D motion adaptive de-interlacing and frame rate conversion is supported as well.

Integrated EDID management options allow for control over the way connected sources detect the unit. Also included is an auto source detection and switching feature allowing the unit to switch automatically to the most recently connected source, or to switch to the alternate source if the current one becomes disconnected.

This unit has a comprehensive OSD menu that provides the user with easy access to all settings. An integrated hot-key design makes for rapid access to common functions such as input selection and audio volume. This is an ideal device to integrate previously incompatible sources and displays or to provide a flexible auto-detecting input point for your boardroom meeting presenter's devices.

- HDMI 4K@60Hz (YUV 4:2:0 and YUV 4:4:4) support
- DVI 1.0 compatible and HDCP 2.2/1.4 compliant
- Supports HDMI input resolutions from 480i to 4K
- Supports PC input resolutions from VGA to WUXGA (RB) and HD input resolutions from 480i to 1080p
- Analog YUV input is supported with the use of a 15-pin to 3-RCA adapter
- Supports HDMI output resolutions from 640x480@60Hz up to 4096x2160@60Hz (4:4:4, 8-bit)
- 50/60Hz frame rate conversion



- 3-D motion adaptive de-interlacing and 3:2/2:2 pull-down detection and recovery
- Automatically detects and outputs the preferred resolution and refresh rate reported by the EDID of the connected display (NATIVE output mode)
- EDID management options including multiple pre-defined EDIDs and EDID passthrough
- Comprehensive output picture adjustments of contrast, brightness, hue, saturation, sharpness, RGB (color tone) level, and aspect ratio size
- Supports LPCM 2.0 digital/analog audio input and LPCM 2.0 digital/analog output
- Selects audio source via the OSD and output simultaneously over the HDMI, optical, and phone jack connections
- Supports firmware updates via USB

## HDMI/DP/VGA to HDMI 6G Scaler

CSC-6010D



**HDMI**  
HIGH-DEFINITION MULTIMEDIA INTERFACE



This scaler features the three most popular input interfaces utilized on source devices: HDMI, DisplayPort and VGA. The maximum output resolution supported is 4K@60Hz (YUV 4:4:4) for both HDMI and DisplayPort inputs. This unit comes packed with all of the adjustment options you are likely to need when accommodating different sources including a wide array of aspect ratio settings as well as contrast, brightness, saturation, hue, sharpness, etc. all adjustable directly on the unit.

Additionally this unit brings the benefit of an analog speaker output for ease of integration when employed in conference centers, classrooms and public venues. The auto source detection feature is designed to switch to the most recently connected source automatically and to switch to another live input if the current one becomes disconnected. This unit is controllable via front panel controls (with OSD), WebGUI, IR remote, Telnet, and RS-232. These comprehensive control interfaces make operation easy and intuitive.

- Multiple input formats including HDMI, DisplayPort and VGA
- DVI 1.0 compatible and HDCP 2.2/1.4 compliant
- Supports video timings up to 4K@60Hz YUV 4:4:4 over the HDMI and DisplayPort inputs and over the HDMI output
- Auto source detection: Automatically switches to the most recently connected input
- Wide range of aspect ratio settings including: full screen, 16:9, 16:10 and 4:3
- Direct adjustment of contrast, brightness, hue, and saturation
- Audio mute function
- Analog stereo audio output with volume control
- EDID management support
- Comprehensive user interface options including: Front panel with OSD, WebGUI, Telnet, RS-232, and IR remote
- Firmware can be easily updated in the field via USB

## HDMI/VGA to HDMI 6G Scaler

CSC-V101P



**HDMI**  
HIGH-DEFINITION MULTIMEDIA INTERFACE



This scaler is designed to scale and convert HDMI, PC or Component video sources to an HDMI output with optional analog audio insertion or extraction. Scaled output resolutions from VGA (640×480@60Hz) all the way up to 4K@60Hz (4:4:4, 8-bit) are available. HD component video (YUV) is supported with the use of a 3-RCA to 15-pin adapter via the VGA input. If desired, external audio can be inserted into the HDMI output from the analog stereo 3.5mm input associated with each input. This unit has a comprehensive OSD menu which allows the user to select from a variety of output resolutions as well as to adjust the video settings to provide the best picture quality.

- HDMI with 18Gbps (600MHz) 4K UHD support
- DVI 1.0 compatible with the use of an HDMI-DVI adaptor
- HDCP 2.2/1.4 compliant
- 1 HDMI and 1 VGA input ports, each with associated 3.5mm analog stereo ports

- HD component video (YUV) is supported with the use of a 3-RCA to 15-pin adapter via the VGA input port
- 1 HDMI output port
- Advanced 4K upscaling and downscaling engine
- Supports PC and HD resolutions up to 3840×2160@60Hz (4:4:4, 8-bit) & 4096×2160@60Hz (4:4:4, 8-bit)
- Supports Deep Color up to 1080p@60Hz, 48-bit
- Supports passthrough of LPCM 2.0/5.1/7.1, Bitstream, and HD Bitstream audio formats
- Analog stereo audio insertion support via 3.5mm mini-jack ports
- Integrated EDID management
- Optional automatic input selection on source loss
- Output picture adjustments include: contrast, brightness, hue, saturation, sharpness, noise reduction, RGB levels, and aspect ratio
- Controllable via front-panel buttons with OSD

## HDMI to Dual HDMI 6G Scaler

CPLUS-V2PE


**HDMI**  
HIGH-DEFINITION MULTIMEDIA INTERFACE


This scaler is designed to upscale 1080p signals into 4K UHD (6G HDMI) or downscale 4K UHD (6G HDMI) signals into 1080p with synchronized digital and analog audio output. A friendly and simple interface design allows the user to control the unit while viewing the OSD directly on the HDMI output. The input signal can be output to both HDMI outputs simultaneously with a different resolution on each or the unit can generate a test pattern at a preferred video resolution easy on-site display testing and validation. This scaler is the best tool to use with your HD and UHD signals.

- 1xHDMI input and 2xHDMI outputs with 18Gbps (600MHz) 4K UHD support and HDCP 2.2/1.4 compliance
- DVI 1.0 compatible with the use of a DVI-to-HDMI adapter
- 4K UHD (YUV 4:4:4) to 4K UHD (YUV 4:2:0) conversion
- HDCP 2.2 to HDCP1.4 conversion
- HDMI signal bypass on both outputs or upscales 1080p signals to 4K on output B and downscales 4K signals to 1080p on output A
- HDMI signal bypass, upscale, and downscale
- Integrated EDID management
- Test pattern generation at selected resolutions for on-site display testing
- Supports High-Dynamic-Range (HDR) sources
- Supports HDR conversion from 4K@24/25/30 (4:4:4/2:2, 10-bit or 12-bit) to 4K@24/25/30Hz (8-bit)
- Supports UHD resolutions including: 3840x2160@24/25/30Hz, 3840x2160@50/60Hz (YUV 4:4:4) & 4096x2160 @24/25/30Hz, 4096x2160@50/60Hz (YUV 4:4:4)
- Supports data rates up to 18Gbps (600MHz) and Deep Color up to 1080p 48-bit
- Supports passthrough of all standard digital audio formats: LPCM 2.0/5.1/7.1, Bitstream, and HD Bitstream
- OSD with instant I/O resolution display
- Digital to Analog (DAC) audio conversion
- Supports the Apple source compatibility mode option

## HDMI to Dual HDMI 4K Scaler (Supports 4K Downscaling)

CPR0-2E4KS

**HDMI**  
HIGH-DEFINITION MULTIMEDIA INTERFACE


This scaler is designed to upscale a 1080p signal up to 4K or downscale a 4K signal down to 1080p. The unit features a single HDMI input and two simultaneous HDMI outputs, a "Bypass" output and a "Scaled" output. The bypassed output will always bypass the original HDMI signal, while the scaled output can be set to upscale to 4K, downscale to 1080p, or to bypass without scaling. This unit is an ideal solution for integrating your 4K UHD source into a 1080p FHD system or vice versa.

- Supports HDMI signal upscaling from 1080p to 4K or downscaling from 4K to 1080p
- One HDMI input (up to 4K@30Hz) and two HDMI outputs (1 scaled output, 1 bypassed output)
- Simultaneous HDMI (scaled and bypassed) outputs
- Supports HD resolutions of 1080p@24/25/30Hz
- Supports UHD resolutions of 4096x2160p@24Hz & 3840x2160p@24/25/30Hz
- HDCP 1.x compliant

CPR0-12ES

**HDMI**  
HIGH-DEFINITION MULTIMEDIA INTERFACE


This scaler is designed to downscale a 4K (and non-4K) HDMI signal to resolutions of 1080p/WUXGA or lower while simultaneously bypass the 4K signal to a 4K native display. With its friendly and simple OSD (On-Screen Display) interface design this unit allows the user to easily change output resolutions and related video settings directly from the front panel. This unit is an ideal solution for expanding the capabilities of your 4K UHD media environment.

- Supports HDMI signal downscaling from 4K to 1080p
- One HDMI input (up to 4K@30Hz) and two HDMI outputs (1 scaled output, 1 bypassed output)
- Simultaneous HDMI (scaled and bypassed) outputs
- Scaled HDMI output resolution up to 1080p@60Hz or WUXGA@60Hz (RB)
- Bypassed HDMI output resolution up to 4K@60Hz (YUV 4:2:0)
- Controllable via front-panel buttons with OSD
- HDCP 1.x compliant

## mDP to HDMI Scaler

CS-803MDP



This scaler allows you to display the output of any standard DisplayPort 1.1 source (such as Mac laptops) on HDMI TVs or monitors. This unit also supports converting DisplayPort audio (up to LPCM 2.0) to HDMI audio. Perfect for use in boardrooms or for individuals and professionals at home or in the office who need increased compatibility between their equipment.

- DisplayPort signal conversion and scaling to HDMI output
- Supports DisplayPort 1.1 signals up to 2560x1600@60Hz
- Quick keys switch to 720P or XGA resolution
- OSD control
- Audio output supports up to LPCM 2.0
- Output audio mute functionality

## mDP/DVI-DL/VGA to HDMI Scaler

CS-802D



This scaler can switch and convert Dual-link DVI, Mini DisplayPort and VGA/Component Video inputs to an HDMI output, along with their associated audio signals. With the ability to scale a wide range of resolutions, the operation of all features can be easily handled through on-panel controls, IR remote control, or by RS-232 protocol.

- Supports Dual-link DVI and Mini DisplayPort input resolutions up to 2560x1600@60Hz (RB), PC up to 1920x1200@60/75Hz and Component Video up to 1080p@50/60Hz
- Supports digital and analog audio bidirectional conversion, embedding and de-embedding for the audio signals from individual inputs
- Supports Component Video input via D-sub 15-pin to 3 RCA phono adaptor

## DP/HDMI/VGA to HDMI Scaler (Supports 3D Conversion)

CS-801H

This scaler can switch and convert HDMI, DisplayPort and VGA, Component Video inputs to an HDMI output, along with their associated audio signals. With the ability to scale a wide range of resolutions and allows 3D movies to be watched on a 2D displays, the operation of all features can be easily handled through on-panel controls, IR remote control, or by RS-232 protocol.

- Supports HDMI and Component Video input resolutions up to 1080p@50/60Hz, DisplayPort up to 2560x1600@60Hz (RB) and PC up to 1920x1200@60/75Hz
- Supports HDMI 3D processing:
  - Frame Packing and Top-and-Bottom signals at resolutions of 720p@50/60Hz and 1080p@24Hz
  - Side-by-Side Half signals at resolutions of 720p@50/60Hz, 1080i@50/60Hz (input signal only) and 1080p@24/50/60Hz
- Supports digital and analog audio bidirectional conversion, embedding and de-embedding for the audio signals from individual inputs or from the HDMI source
- Supports Component Video input via D-sub 15-pin to 3 RCA phono adaptor



## HDMI to HDMI Scaler

CP-302MN

This scaler is designed to scale HDMI sources between various HD and PC resolutions. Both input and output support resolutions up to 1920×1200@60Hz (RB) and the unit is compliant with HDCP 1.4 and DVI 1.0 standards. The video contrast, brightness, hue and saturation are able to be adjusted manually.

The aspect ratio and overscan amount is adjustable making this the perfect solution to help integrate sources requiring all types of conversion. HD audio formats are supported via bypass and the maximum supported audio sampling rate is 192kHz.

In addition, this unit gives you the option of using a customizable internal EDID or simply using the EDID from the connected display. A simple on-screen display (OSD) allows the user to configure the unit with ease.

- DVI 1.0 compatible and HDCP 1.x compliant
- Scales the video signal from an HDMI source up to 1920×1200@60Hz (RB)
- Accepts a wide range of SD/HD input resolutions from 480i to 1080p
- Manual adjustments for contrast, brightness, hue, and saturation
- Provides stable output timing even if no video source is present
- Maximum output pixel rate up to 165MHz
- Maximum input pixel rate up to 225MHz
- Supports 8-bit RGB and 8, 10 and 12-bit YCbCr (4:4:4) color spaces and converts to 8-bit RGB for output
- Supports passthrough of all standard digital audio formats: LPCM 2.0/5.1/7.1, Bitstream, and HD Bitstream
- Maximum audio sampling rate of 192kHz
- Able to mute output audio
- Able to freeze or blank video with the option of continuing to output live audio
- Frame rate and color space conversion
- EDID management with customizable internal EDID or cloned EDID from the connected display
- Firmware can easily be updated in the field via USB

**HDMI**  
HIGH-DEFINITION MULTIMEDIA INTERFACE



## HDMI to HDMI Scaler

CP-259HN

This scaler is designed to upscale an HDMI video signal from an HDMI source device and output in a wide range of HDTV and PC resolutions up to 1080p/WUXGA. Additionally this unit can also convert a digital/analog audio signal and then simultaneously output to an HDMI, Optical and 3.5mm Mini-jack (L/R audio) connections. This unit has a comprehensive OSD menu that allows the user to select a variety of output resolutions, allowing the conversion of the video signal to maximize compatibility, and make adjustments to optimize the image quality.

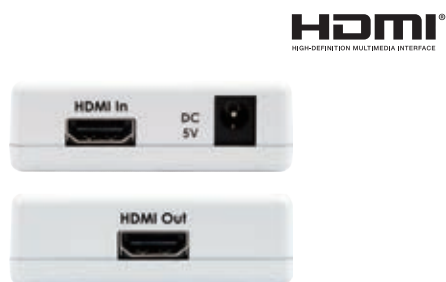
- DVI 1.0 compatible and HDCP 1.x compliant
- Supports full range of PC resolution from VGA to WUXGA (RB) and HD resolution from 480i to 1080p
- Automatically detects the display settings of the connected display and outputs the correct resolution and refresh rate when the NATIVE output option is selected
- Supports 50/60Hz frame rate conversion
- Supports 3D motion video adaptive, 3D de-interlacing, and 3:2/2:2 pull-down detection and recovery
- Provides adjustment of contrast, brightness, hue, saturation, sharpness, RGB (color tone) level and aspect ratio size of the video output
- Supports OSD selectable stereo analog and digital audio inputs and simultaneous stereo analog and digital audio outputs to HDMI, Optical digital audio and analog mini-jack connections

**HDMI**  
HIGH-DEFINITION MULTIMEDIA INTERFACE



## HDMI to HDMI Scaler

CP-298H

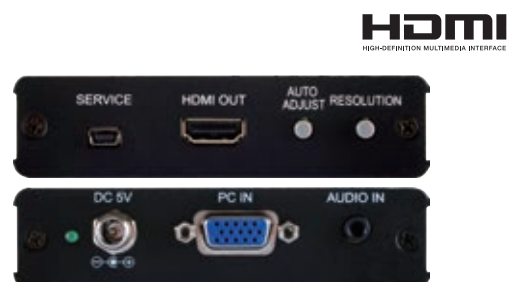


This scaler is designed to display your HDMI images on a HDTV. It can upscale a HDMI input resolution/timing to a HDMI output resolution/timing for a wide-ranging display. This unit provides you with a variety of output resolutions in order to match you the native resolution of the connected display as well as a built-in OSD menu which helps you to view and select the desired resolution instantly.

- DVI 1.0 compatible and HDCP 1.x compliant
- Input signal supports 8/10/12-bit color depth
- Output resolution supports 720p to 1080p and 1280×800, 1366×768, 1920×1200 (RB)
- Supports interlaced to progressive video conversion
- Supports auto-detection and hot plugging
- OSD menu and hotkey for easily selecting the output resolution

## VGA to HDMI Scaler

CP-304



This scaler is designed to upscale analog video from PC source to digital HDMI output of wide-range resolutions up to 1080p/WUXGA (RB). Besides, this unit can convert analog stereo audio to digital format and embed it to HDMI output as 2CH LPCM. This unit has a comprehensive resolution button that allows user to select a variety of output resolutions and adjust for best picture quality.

- DVI 1.0 compatible
- Scales any PC resolutions to PC/HD resolutions
- Supported PC resolutions: VGA, SVGA, XGA, SXGA, UXGA, WXGA, WSXGA, WUXGA (RB)
- Supported SD/HD resolutions: 480i, 576i, 480p, 576p, 720p, 1080i, 1080p
- Automatically detect the factory setting of the connected display and output the corresponding resolutions and refresh rate
- Supports analog stereo audio with PC video to HDMI output

## VGA to HDMI Scaler

CP-293N

This scaler is designed to upscale an analog video signal from a PC (VGA) or HD (Component Video) source device to digital HDMI output in a wide range of HDTV and PC resolutions up to 1080p/WUXGA (RB). Additionally this unit can also convert a digital/analog audio signal and then simultaneously output to an HDMI, Optical and 3.5mm Mini-jack (L/R audio) connections. This unit has a comprehensive OSD menu that allows the user to select a variety of output resolutions and make picture adjustments to optimize the image quality.

- DVI 1.0 compatible and HDCP 1.x compliant
- Supports a wide range of PC resolutions from VGA to WUXGA (RB) and HD resolutions from 480i to 1080p
- Automatically detects the display settings of the connected display and outputs the correct resolution and refresh rate when the NATIVE output option is selected
- Supports adjustment of contrast, brightness, hue, saturation, sharpness, RGB (color tone) level and aspect ratio size of the video output
- Supports OSD selectable stereo analog and digital audio inputs and simultaneous stereo analog and digital audio outputs to HDMI, Optical digital audio and analog mini-jack connections



## DVI/VGA to HDMI Scaler

CP-290

This scaler is designed to display lower resolution PC/HD images on a higher resolution HDTV with high quality scaling. This unit can upscale analog (VGA, Component) or digital (DVI, HDMI) video sources to a selection of popular HDMI output resolutions (XGA, UXGA, 720p, and 1080p). A pair of audio inputs (digital coaxial and analog stereo) is provided to supply a selectable audio source for the scaled output. The unit is controlled via front-panel buttons.

- DVI 1.0 compatible and HDCP 1.x compliant
- Supports a full range of HD and PC input resolutions up to 1080p@60Hz and WUXGA@60Hz (RB)
- DVI-D input can support HDMI sources with the use of an HDMI to DVI-D adapter
- VGA input can support HD Component (YUV) video sources with the use of a 3-RCA adapter
- Supports scaling the selected input to one of the following output resolutions: XGA, UXGA, 720p, or 1080p (Note: This unit does not support frame rate conversion.)
- Analog 3.5mm mini-jack and digital coaxial inputs are provided to insert stereo audio into the HDMI output
- Controllable via convenient front-panel buttons



## Component Video to HDMI Scaler

CP-294

This scaler is designed to convert and scale an analog HD component video source into a digital HDMI signal while also embedding external analog or digital audio. Input resolutions from 480i to 1080p and output resolutions up to WUXGA/1080p are supported. Besides scaling, this unit can also perform analog to digital and digital to analog audio conversion, allowing the selected audio source to be output simultaneously as a part of the HDMI signal, as optical audio and as analog stereo audio. This unit has a comprehensive OSD menu which allows the user to select from a variety of output resolutions as well as to adjust the video settings to provide the best picture quality.

- DVI 1.0 compatible
- Scales any standard analog component HD resolution to a wide selection of digital HDMI resolutions
- PC output resolution support: VGA, SVGA, XGA, SXGA, UXGA, WXGA, WSXGA, and WUXGA
- SD/HD output resolution support: 480i, 576i, 480p, 576p, 720p, 1080i, and 1080p
- Automatically detect and output the preferred resolution and refresh rate of a connected HDMI display when in "NATIVE" output mode
- Output picture adjustments include: contrast, brightness, hue, saturation, sharpness, RGB (color tone) level and aspect ratio
- Audio source is freely selectable between the analog 3.5mm stereo input or digital optical TOSLINK input
- Supports stereo LPCM 2.0 analog/digital audio input and output
- Controllable via front-panel buttons with OSD



## Component Video/CV to HDMI Scaler

CHQV-3CH

This scaler is specially designed for low resolution analog YCbCr contents video to be upscale and display on HDTV/monitor. This device is suitable for iPod & MPEG 4 like consumer video devices to enjoying display video or images on the big screen with HD resolution. This device has built-in the resolution adjustment allowing user to select the best output image according to the favor. Last but not least, the touch button panel and the remote control bring you the stylish and free enjoyment on the entertainment.

- Full HQV quality de-interlacing
- Improved adaptive motion processing for difficult and poor quality video scenes
- Temporal Noise Reduction (TNR)-Reduces noise caused by on film grain, random noise, sensor noise and light fluctuations
- Block Artifact Reduction (BAR)-Reduces Compression block artifact
- Mosquito Noise Reduction (MNR)-Reduces mosquito noise
- Supports NTSC/PAL input video and resolution 480i/p and 576i/p
- Video output resolution up to 1080p@60Hz
- Demo before scale and after scale's picture difference
- Enhance picture's detail quality
- Power over USB
- Palm size with stylish design



## CV/SV to HDMI Scaler

CP-295NN

This scaler is designed to upscale the video signal from an analog input source to a digital HDMI output in a wide-range of HDTV and PC resolutions up to 1080p/WUXGA. Additionally this unit can also convert a digital/analog audio signal and then simultaneously output to an HDMI, Optical and 3.5mm Mini-jack (L/R audio) connections. This unit has a comprehensive OSD menu that allows the user to select a variety of output resolutions and make picture adjustments to optimize the image quality.

- DVI 1.0 compatible and HDCP 1.x compliant
- Supports a wide range of video standards including NTSC, NTSC4, PAL, PAL-M, PAL-N and SECAM
- Supports upscaling to resolutions of VGA to WUXGA (PC) or 480p to 1080p (HD)
- Automatically detects the display settings of the connected display and outputs the correct resolution and refresh rate when the NATIVE output option is selected
- Supports 50/60Hz frame rate conversion
- Supports 3D motion video adaptive, 3D de-interlacing and 3:2/2:2 pulldown detection and recovery
- Provides adjustment of contrast, brightness, hue, saturation, sharpness, RGB (color tone) level and aspect ratio size of the video output
- Supports OSD selectable stereo analog and digital audio inputs and simultaneous stereo analog and digital audio outputs to HDMI, Optical digital audio and analog mini-jack connections



## CV/SV to HDMI Scaler

CM-398H



**HDMI**  
HIGH-DEFINITION MULTIMEDIA INTERFACE

This scaler is designed to convert and scale Composite Video or S-Video sources (NTSC/PAL or SECAM) to a standard digital HDMI signal. The unit's built-in frame rate conversion feature allows 50Hz sources to be displayed on 60Hz displays. The advanced 3D motion adaptive de-interlace feature helps to eliminate combing and interlace motion artifacts. An external stereo audio source can be combined with the SD video source for a fully compliant audio/video HDMI output. An OSD allows the user to easily view the current settings and adjust the frame rate conversion function.

- Supports NTSC 3.58 and PAL & SECAM video formats
- High quality scaling engine scales and converts CV/SV to HDMI
- PC output resolutions: XGA, SXGA, and UXGA (60Hz only)
- HD output resolutions: 480p, 576p, 720p and 1080p (50/60Hz) (Note: 60Hz to 50Hz frame rate conversion is not supported.)
- 3D (frame based) motion adaptive Y/C noise reduction
- Advanced 3D motion adaptive de-interlacing
- Automatic 2:2 & 3:2 pull down detection

## CV/SV to HDMI Scaler

CM-1392M



**HDMI**  
HIGH-DEFINITION MULTIMEDIA INTERFACE

This scaler is designed to scale Composite Video and S-Video to HDMI. This unit supports resolutions up to WUXGA (1920x1200) at 60Hz and 1080p at 60Hz as well as NTSC and PAL. This scaler has additional features which enhance the quality of your videos and an OSD menu allows you to easily select the desired resolution and adjustment.

- Supports 480p@60Hz, 576o@50Hz, 720p@60Hz, 1080i@50/60Hz, 1080p@50/60Hz output resolutions
- Supports VGA@60Hz to WUXGA@60Hz (RB) output resolutions
- Automatic NTSC/PAL video detection and switching
- Automatic frame rate conversion from 50Hz to 60Hz
- Motion adaptive 3D de-interlacing and 3D Y/C separation
- Automatic 2:2/3:2 film mode detection and correction
- Automatic 3D noise reduction
- Supports DCTI (Digital Chroma Transient Improvement) and DLTI (Digital Luminance Transient Improvement)
- Supplied IR remote control

## Multi-Format to DVI Scaler

CP-255ID

This scaler is capable of scaling and sources-switching from Composite Video, S-Video, PC (VGA) and DVI input signals to a DVI output. A corresponding analog stereo audio input can be switched and sent to the stereo audio output with the video source selection. It has the added benefit of control through front panel buttons, IR remote, or RS-232, and there is on-screen menu (OSD) providing setting selection and system information. The device provides a full range of output resolutions, up to 1080p for HDTV resolutions, and WUXGA (RB) for PC resolutions.

- Supports the conversion of multiple video and audio formats to DVI
- Supports synchronized output for input video and output audio signals
- Supports 3D de-interlacing, noise reduction and Comb filter
- Supports frame rate conversion
- Supports control via RS-232, IR Remote handset and front panel



## DVI/VGA/Component Video to DVI/VGA Scaler

CP-255DN2

Last Gen. Model • CP-255DN

This scaler is capable of scaling and source switching between PC (VGA), Component Video (SD/HD) and DVI input signals to analog PC (VGA) and digital DVI outputs. It has the added benefit of control through front panel buttons and an IR Remote, and there is an on-screen menu (OSD) providing configuration control and system information. The unit provides a full range of output resolutions, up to 1080p for HDTV resolutions, and WUXGA (RB) for PC resolutions making it ideal for use in professional large screen presentation applications.

- Supports PC/RGB (up to WUXGA), Component
- Video/HD (480i to 1080p) and DVI (up to WUXGA RB) inputs to be scaled to analog PC and digital DVI outputs (up to 1080p/ WUXGA RB)
- Supports analog PC (RGBHV), SD/HD (YPbPr) and digital DVI formatted input
- Supports digital DVI and analog PC output resolutions from 480i to 1080p and VGA to WUXGA (RB)
- Automatic detection of input resolution
- Output resolution and refresh rate can be selected through the OSD menu or front panel buttons
- Supports the adjustment of brightness, contrast, color, RGB level, and Horizontal/Vertical position for the output signal
- DVI input is fully DVI 1.0 compatible and HDCP 1.x compliant (Note: If the input is HDCP encrypted then DVI output is also HDCP encrypted. There is no analog PC output for HDCP encrypted content.)
- Contains advanced features such as Noise Reduction and Overscan/Underscan adjustments
- OSD menu, front panel buttons or IR remote controls



## DVI to DVI Scaler

CP-298D

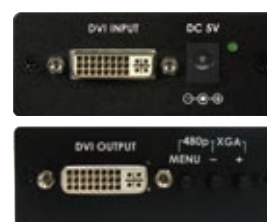


This scaler is designed to display your DVI images on a HDTV. It can upscale a DVI input resolution/timing to a DVI output resolution/timing for a wide-ranging display. This unit provides you with a variety of output resolutions in order to match you the native resolution of the connected display as well as a built-in OSD menu which helps you to view and select the desired resolution instantly.

- DVI 1.0 compatible and HDCP 1.x compliant
- Input signal supports 8/10/12-bit color depth
- Output resolution supports 720p to 1080p and 1280×800, 1366×768, 1920×1200 (RB)
- Supports interlaced to progressive video conversion
- Supports auto-detection and hot plugging
- OSD menu and hotkey for easily selecting the output resolution

## DVI to DVI Scaler

CP-254



This scaler can accept digital DVI signal from a PC/HD source and send to a PC/HD display. It's simply to use DVI cables to connect this unit to your source and TV/monitor. This scaler can output a variety of PC resolutions (up to SXGA@75Hz) and progressive TV resolutions (up to 720p@60Hz or 1080i@60Hz), in both digital and analog video format.

- Accepts digital-only DVI-D input and converts to DVI-I output
- Input supports RGBHV or YCbCr video formats
- Output supports RGBHV video format
- Supports video format conversion between RGBHV and YCbCr
- Automatically detects input resolution
- 48MB frame memory for frame rate conversion
- Selects output resolutions and refresh rates from OSD menu
- Uses OSD menu to make adjustments to the contrast, brightness, and color, etc. of the output picture

## VGA to DVI Scaler

CP-300VD



This scaler is designed to convert a VGA signal to DVI so that it can be displayed on a DVI monitor without loss of image quality. It can upscale VGA input sources to DVI output for a wide range of PC resolutions, from VGA to WUXGA (RB). This unit has a variety of output resolutions and adjustment for the best picture quality. Also, the built-in OSD function makes it easy for the user to view or select the desired resolution.

- Upscales or downscales PC resolutions
- Converts analog RGB (VGA) signal into digital RGB (DVI) signal
- Supports PC resolution bypass from VGA to WUXGA (RB)
- Supports bypass, manual and TV native modes
- Supports auto-detection and hot plugging

## COMP/CV/SV to DVI Scaler

CM-348ST



This scaler is designed to convert a Component Video, Composite Video, or S-Video signals to a DVI signal with a variety of resolution options (up to SXGA@60Hz or 1080i@60Hz). With many additional features for scaling the input resolution to high-definition output resolution, this unit is ideal for use in a presentation environment.

- Video input is 3D de-interlaced and scaled up to a PC/HD output resolution
- CV/SV inputs accept NTSC 3.58, NTSC 4.43, PAL, PAL-M, PAL-N, and SECAM
- Adaptive digital 4H comb filter and Y/C separator
- Motion compensated de-interlacing algorithms
- Built-in adaptive film mode 3:2/2:2 pull-down
- Vertical temporal filter (VT) removes jaggy and other de-interlacing artifacts
- Frame rate conversion from 50Hz up to 85Hz
- OSD menu with adjustments to the output picture

## CV/SV to DVI Scaler

CM-398DI

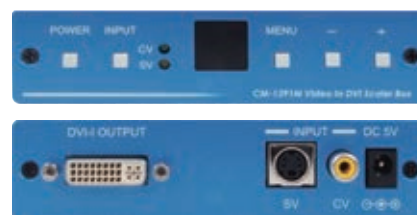


This scaler is designed to convert and scale Composite Video or S-Video sources (NTSC or PAL) to a standard digital DVI signal. The unit's built-in frame rate conversion feature allows 50Hz sources to be displayed on 60Hz displays and 60Hz sources on 50Hz displays. The advanced 3D motion adaptive de-interlacing feature helps to eliminate combing and interlace motion artifacts. An OSD (On-Screen Display) allows the user to easily view the current settings and select the output resolution/frame rate.

- DVI 1.0 compatible
- Supports NTSC 3.58 and PAL video formats
- Scales and converts CV/SV to DVI-D (signal is digital only)
- PC output resolutions: XGA, SXGA, and UXGA (60Hz only)
- HD output resolutions: 480p, 576p, 720p, and 1080p (50/60Hz)
- DVI-I output connection for increased cable compatibility
- 3D (frame based) motion adaptive Y/C noise reduction
- Advanced 3D motion adaptive de-interlacing
- Automatic 2:2 & 3:2 pulldown detection

## CV/SV to DVI Scaler

CM-1391M



This scaler is designed to scale Composite Video and S-Video to DVI. This unit supports resolutions up to WUXGA (1920x1200) at 60Hz and 1080p at 60Hz as well as NTSC and PAL. This scaler has additional features which enhance the quality of your videos and an OSD menu allows you to easily select the desired resolution and adjustment.

- Supports 480p@60Hz, 576p@50Hz, 720p@50/60Hz, 1080i@50/60Hz, 1080p@50/60Hz output resolutions
- Supports VGA@60Hz to WUXGA@60Hz (RB) output resolutions
- Automatic NTSC/PAL video detection and switching
- Automatic frame rate conversion from 50Hz to 60Hz
- Motion adaptive 3D de-interlacing and 3D Y/C separation
- Automatic 2:2/3:2 film mode detection and correction
- Automatic 3D noise reduction
- Supports DCTI (Digital Chroma Transient Improvement) and DLTI (Digital Luminance Transient Improvement)
- Supplied IR remote control

## SDI to Dual SDI Scaler

CSDI-12SR

This scaler allows an SD-SDI, HD-SDI and 3G-SDI signal to be scaled and split to two simultaneous SDI outputs, providing bandwidth up to 2.970Gbps for 3G-SDI video support allowing the user to distribute and extend their SDI signal. The On-screen Display (OSD) menu can be controlled from the front panel, allowing quick and easy adjustment of all settings.

- Scales any SDI input (SD/HD/3G) to any SDI output (SD/HD/3G)
- Splits one SDI input to two SDI outputs with scaling function
- Supports input and output signals auto-detection
- Supports SDI standards of SMPTE 259M-C (SD-SDI), SMPTE 292M (HD-SDI), and SMPTE 424M/425M-A (3G-SDI)
- Supports SDI bitrates of 270Mbps, 1.485Gbps & 1.485/1.001Gbps, and 2.970Gbps & 2.970/1.001Gbps
- Integrated audio de-embedding for up to 8 channels of 48kHz
- Supports SDI operating distance up to 100 meters (3G-SDI), 200 meters (HD-SDI), or 300 meters (SD-SDI)



## SDI to HDMI Scaler (Plus SDI Bypass Output)

CLUX-SDI2HS

This scaler allows SD, HD and 3G-SDI signals to be shown on HDMI and SDI display. This means that it is now easier for professionals to distribute and extend their SDI signal while giving the ability to display work on HDMI displays. Furthermore, thanks to coaxial (S/PDIF) and L/R audio outputs users can output audio in both digital and analog formats while the loop-through 3G-SDI design benefits users by letting them simultaneously show content on both SDI and HDMI displays.

- Supports SD-SDI, HD-SDI, and 3G-SDI input signals with auto-detection
- Supports HDMI and SDI (bypass) output simultaneously
- Scale any SDI input signal to HDMI, PC timings support SVGA@60~WUXGA@60 (RB) and HDTV timings 480p/576p~1080p@50/60
- Supports SDI standards of SMPTE 259M-C (SD-SDI), SMPTE 292M (HD-SDI), and SMPTE 424M/425M-A (3G-SDI)
- Supports SDI bitrates of 270Mbps, 1.485Gbps & 1.485/1.001Gbps, and 2.970Gbps & 2.970/1.001Gbps
- Equalized and re-clocked loop output
- Alternative audio output to coaxial and analog 2 CH
- Integrated audio de-embedder for up to 8 channels of 48kHz audio
- Supports SDI input/output distance up to 100 meters (3G-SDI), 200 meters (HD-SDI), or 300 meters (SD-SDI)



## SDI to VGA Scaler (Plus SDI Bypass Output)

CLUX-SDI2VS

This scaler allows SD, HD and 3G-SDI signals to be shown on PC/HD display. This means that it is now easier for professionals to distribute and extend their SDI signal while giving the ability to display work on PC/HD display. Furthermore, thanks to coaxial (S/PDIF) and L/R audio outputs users can output audio in both digital and analog formats while the loop-through 3G-SDI design benefits users by letting them simultaneous show content on both SDI and PC/HD displays.

- Supports SD-SDI, HD-SDI, and 3G-SDI input signals with auto-detection
- Supports PC/HD and SDI (bypass) output simultaneously
- Scale any SDI signal to PC/HD, PC timings support VGA@60Hz~WUXGA@60Hz (RB) and HDTV timings support 480i/576i~1080p@50/60Hz
- Supports SDI standards of SMPTE 259M-C (SD-SDI), SMPTE 292M (HD-SDI), and SMPTE 424M/425M-A (3G-SDI)
- Supports SDI bitrates of 270Mbps, 1.485Gbps & 1.485/1.001Gbps, and 2.970Gbps & 2.970/1.001Gbps
- Equalized and re-clocked loop output
- Alternative audio output to coaxial and analog 2CH
- Supports SDI input/output distance up to 100 meters (3G-SDI), 200 meters (HD-SDI), or 300 meters (SD-SDI)



## SDI to CV/SV Scaler (Plus SDI Bypass Output)

CLUX-SDI2CSS

This scaler allows SD, HD and 3G-SDI signals to be shown on CV/SV display. This means that it is now easier for professionals to distribute and extend their SDI signal while giving the ability to display work on PC/HD display. Furthermore, thanks to coaxial (S/PDIF) and L/R audio outputs users can output audio in both digital and analog formats while the loop-through 3G-SDI design benefits users by letting them simultaneous show content on SDI, Composite Video and S-Video displays.

- Supports SD-SDI, HD-SDI, and 3G-SDI input signals with auto-detection
- Supports CV/SV and SDI (bypass) output simultaneously
- Scale any SDI signal to CV/SV of NTSC or PAL format
- Supports SDI standards of SMPTE 259M-C (SD-SDI), SMPTE 292M (HD-SDI), and SMPTE 424M/425M-A (3G-SDI)
- Supports SDI bitrates of 270Mbps, 1.485Gbps & 1.485/1.001Gbps, and 2.970Gbps & 2.970/1.001Gbps
- Equalized and re-clocked loop output
- Alternative audio output to coaxial and analog 2CH
- Supports SDI input/output distance up to 100 meters (3G-SDI), 200 meters (HD-SDI), or 300 meters (SD-SDI)

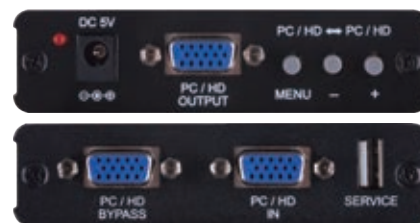


## VGA to VGA Scaler (Plus VGA Bypass Output)

CP-291N

This scaler is designed to cross-convert between a wide range of analog PC (15-pin VGA) and HD (Component YUV) resolutions from VGA/480i up to WUXGA/1080p. The original signal can be output, unprocessed and unscaled, by using the included bypass output port. This unit has a comprehensive OSD menu which allows the user to select from a variety of output resolutions as well as to adjust the video settings to provide the best picture quality. An ideal example of usage is to place the unit between a standard PC source and an HDTV while changing the output resolution and format to match the native requirements of the display.

- Supports a wide range of PC (15-pin VGA) resolutions from VGA ~ WUXGA (RB) and HD (Component YUV) resolutions from 480i~1080p over both input and output
- Component YUV input and output is supported with the use of a 15-pin to 3-RCA adapter
- Included bypass output port allows viewing the original, unscaled, source
- Output picture adjustments include: contrast, brightness, hue, saturation, sharpness, RGB (color tone) level and aspect ratio
- Controllable via front-panel buttons with OSD



## VGA to VGA Scaler

CP-251F



This scaler can accept analog VGA (or Component Video) signal from a PC/HD source and send to a PC/HD display. It's simply to use VGA cables to connect this unit to your source and TV/monitor. This scaler can output a variety of PC resolutions (up to SXGA@75Hz) and progressive TV resolutions (up to 720p@60Hz or 1080i@60Hz), in analog video format.

- Accepts analog VGA or Component Video input and converts to VGA or Component Video output
- Supports video format conversion between RGBHV and YPbPr
- Automatically detects input resolution
- 48MB frame memory for frame rate conversion
- Selects output resolutions and refresh rates from OSD menu
- Uses OSD menu to make adjustments to the contrast, brightness, and color, etc. of the output picture

## COMP/CV/SV to VGA Scaler

CM-347ST



This scaler is designed to convert a Component Video, Composite Video, or S-Video signals to a VGA (or Component Video) signal with a variety of resolution options (up to SXGA@60Hz or 1080i@60Hz). With additional features for scaling the input resolution to high-definition output resolution, this unit is ideal for use in a presentation environment.

- Video input is 3D de-interlaced and scaled up to a PC/HD output resolution
- CV/SV inputs accept NTSC 3.58, NTSC 4.43, PAL, PAL-M, PAL-N, and SECAM
- Adaptive digital 4H comb filter and Y/C separator
- Motion compensated de-interlacing algorithms
- Built-in adaptive film mode 3:2/2:2 pull-down
- Vertical temporal filter (VT) removes jaggy and other de-interlacing artifacts
- Frame rate conversion from 50Hz up to 85Hz
- OSD menu with adjustments to the output picture

## CV/SV to VGA Scaler

CM-398M



This scaler is designed to convert and scale Composite Video or S-Video sources (NTSC or PAL) to a standard PC or HD signal. The unit's built-in frame rate conversion feature allows 50Hz sources to be displayed on 60Hz displays. Additionally, the advanced 3D motion adaptive de-interlacing feature helps to eliminate combing, and interlace motion artifacts. An OSD (On-Screen Display) allows the user to easily view the current settings and adjust the frame rate conversion function.

- PC/HD compatible output
- Supports NTSC 3.58 and PAL video formats
- Scales and converts CV/SV to PC/HD
- PC output resolutions: XGA, SXGA, and UXGA (60Hz only)
- HD output resolutions: 480p, 576p, 720p and 1080p (50/60Hz) (Note: 60Hz to 50Hz frame rate conversion is not supported.)
- 3D (frame based) motion adaptive Y/C noise reduction
- Advanced 3D motion adaptive de-interlacing
- Automatic 2:2 & 3:2 pulldown detection

## CV/SV to VGA Scaler

CM-1390M



This scaler is designed to scale Composite Video and S-Video to VGA or Component Video. This unit supports resolutions up to WUXGA (1920×1200) at 60Hz and 1080p at 60Hz as well as NTSC and PAL. This scaler has additional features which enhance the quality of your videos and an OSD menu allows you to easily select the desired resolution and adjustment.

- Supports 480p@60Hz, 576o@50Hz, 720p@50/60Hz, 1080i@50/60Hz, 1080p@50/60Hz output resolutions
- Supports VGA@60Hz to WUXGA@60Hz (RB) output resolutions
- Automatic NTSC/PAL video detection and switching
- Automatic frame rate conversion from 50Hz to 60Hz
- Motion adaptive 3D de-interlacing and 3D Y/C separation
- Automatic 2:2/3:2 film mode detection and correction
- Automatic 3D noise reduction
- Supports DCTI (Digital Chroma Transient Improvement) and DLTI (Digital Luminance Transient Improvement)
- Supplied IR remote control

## HDMI to CV/SV Scaler

CM-388N

This scaler is designed to convert digital HDMI signals into SD analog video output (NTSC or PAL) with analog stereo audio. On the input side, an HDMI port is provided. For output, Composite Video and S-Video ports plus stereo RCA connections are provided to handle the down-converted analog signal.

Additionally, HDMI and coaxial bypass outputs are provided to let the original signal continue on to a digital display or amplifier. HDCP management, under/overscan control as well as output format (NTSC/PAL) is easily selectable using front panel switches. This unit provides a convenient method to convert non-HDCP high-definition content to standard 480i or 576i resolutions for monitoring or recording with analog equipment.

- DVI 1.0 compatible and HDCP 1.x compliant (Note: HDCP encrypted sources can't be output as an analog signal.)
- HDMI input can support DVI-D sources with the use of a DVI-D to HDMI adapter
- Supports a wide range of HD and PC input resolutions up to WUXGA@60Hz(RB) and 1080p@60Hz (8, 10, 12-bit)
- Converts and scales the HDMI input signal to Composite Video and S-Video (NTSC or PAL) output with an unscaled HDMI bypass output

**HDMI**  
HIGH-DEFINITION MULTIMEDIA INTERFACE



- HDMI audio extraction to digital coaxial (LPCM 2.0 & Bitstream) and analog stereo RCA outputs (LPCM 2.0 only)
- Coaxial audio output supports Bitstream audio and the following LPCM 2.0 sample rates: 44.1KHz, 48KHz, and 96KHz
- Overscan or underscan output is freely selectable
- HDCP management control improves display compatibility with certain sources
- Controllable via front panel switches

## HDMI to CV/SV Scaler

CM-388M

This scaler is designed to convert digital HDMI signals into SD analog video output (NTSC or PAL) with analog stereo audio. On the input side, an HDMI port and digital coaxial audio input are provided. For output, Composite Video and S-Video ports plus stereo RCA connections are provided to handle the down-converted analog signal.

Additionally, HDMI and coaxial bypass outputs are provided to let the original signal continue on to a digital display or amplifier. This unit provides a convenient method to convert non-HDCP high-definition content to standard 480i or 576i resolutions for monitoring or recording with analog equipment.

- DVI 1.0 compatible and HDCP 1.x compliant (Note: HDCP encrypted sources can't be output as an analog signal.)
- HDMI input can support DVI-D sources with the use of a DVI-D to HDMI adapter
- Supports a wide range of HD and PC input resolutions up to WUXGA@60Hz(RB) and 1080p@60Hz (8-bit)
- Converts and scales the HDMI input signal to Composite Video and S-Video (NTSC or PAL) output with an unscaled HDMI bypass output
- HDMI audio extraction to digital coaxial (LPCM 2.0 & Bitstream) and analog stereo RCA outputs (LPCM 2.0 only)
- Audio embedding of the digital coaxial source into the HDMI output when a DVI-D video source is used (Analog RCA output will be muted)
- Coaxial audio input and output supports Bitstream audio and the following LPCM 2.0 sample rates: 44.1KHz, 48KHz, and 96KHz

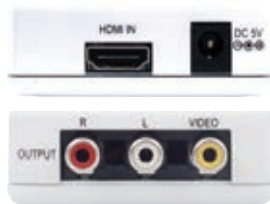
**HDMI**  
HIGH-DEFINITION MULTIMEDIA INTERFACE



## HDMI to CV Scaler

CV-401H

Last Gen. Model • CV-400H

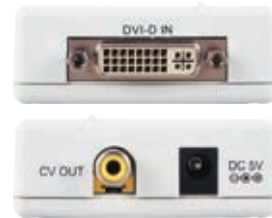


This unit can convert a HDMI digital signal to an analog NTSC or PAL signal with analog stereo audio. It has the ability to convert a high-definition resolution such as 1080p or WUXGA (RB) to a standard-definition resolution (480i or 576i). This unit provides a simplified on-screen display (OSD) allowing easy display of current settings.

- DVI 1.0 compatible and HDCP 1.x compliant
- Accepts 480i to 1080p and VGA to WUXGA (RB) input resolutions
- Underscan/Overscan and Aspect Ratio selections for the output picture
- Motion adaptive 3-D de-interlacing with pixel-by-pixel motion adaptive interpolation
- 3D noise reduction in both temporal and spatial domain
- Frame rate conversion with an arbitrary conversion ratio
- Adaptive contrast enhancement

## DVI to CV Scaler

CV-401D

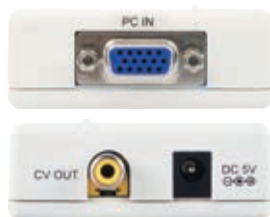


This unit can convert a DVI digital signal to an analog NTSC or PAL signal. It has the ability to convert a high-definition resolution such as 1080p or WUXGA (RB) to a standard-definition resolution (480i or 576i). This unit provides a simplified on-screen display (OSD) allowing easy display of current settings.

- DVI 1.0 compatible and HDCP 1.x compliant
- Accepts 480p, 576p, 720p, 1080i, and 1080p input resolutions
- Accepts VGA to WUXGA (RB) input resolutions
- Underscan/Overscan and Aspect Ratio selections for the output picture
- Motion adaptive 3-D de-interlacing with pixel-by-pixel motion adaptive interpolation
- 3D noise reduction in both temporal and spatial domain
- Frame rate conversion with an arbitrary conversion ratio
- Adaptive contrast enhancement

## VGA to CV Scaler

CV-401V



This unit can convert a VGA or Component Video analog signal to an analog NTSC or PAL signal. It has the ability to convert a high-definition resolution such as 1080p or WUXGA (RB) to a standard-definition resolution (480i or 576i). This unit provides a simplified on-screen display (OSD) allowing easy display of current settings.

- DVI 1.0 compatible
- Accepts 480i to 1080p and VGA to WUXGA (RB) input resolutions
- Underscan/Overscan, Phase, and Aspect Ratio selections for the output picture
- Motion adaptive 3-D de-interlacing with pixel-by-pixel motion adaptive interpolation
- 3D noise reduction in both temporal and spatial domain
- Frame rate conversion with an arbitrary conversion ratio
- Adaptive contrast enhancement

## VGA to CV/SV Scaler

CPT-385AM



This unit is designed to convert a variety of analog computer images, from VGA to WUXGA, to interlaced NTSC or PAL video. With frame rate conversion and Overscan/Underscan features that allows users to view PC source on the Composite Video and S-Video monitor without image cutting off.

- Automatically detects and down converts the incoming PC images to NTSC or PAL
- Supports high resolution PC input timing from VGA to WUXGA
- Scale down PC video to Composite Video/S-Video
- Switch between NTSC/PAL
- Image Overscan/Underscan selection
- Supports ADC conversion

## Component Video to CV/SV Scaler

CPT-387HD

This unit is designed to convert a variety of analog component images, from 480p up to 1080p and can convert them to NTSC or PAL standards video with an additional HD bypass output. Users can also adjust the Overscan/Underscan of the output image. It is ideal for applications like video conferencing, home theater, business presentation, lecturing room etc. where both the original HD and the converted SD signals are required.

- Supports high resolution HD input from 480p up to 1080p
- Supports Component Video (YPbPr) input and downscaling to Composite Video/S-Video output or HD bypass for simultaneous display output
- Switch easily between NTSC/PAL systems
- Auto-phase adjustment to ensure better image display
- Image Overscan/Underscan selection

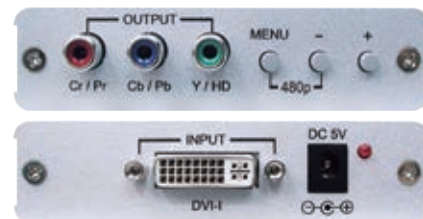


## DVI to Component Video Scaler

CP-292

This scaler is designed to convert and scale a digital DVI input source and output it as an HD analog component signal. Output resolutions up to 1080p are supported. This unit has a comprehensive OSD menu which allows the user to select from a variety of output resolutions as well as to adjust the video settings to provide the best picture quality.

- DVI 1.0 compatible
- DVI-I input connection for increased cable compatibility
- Scales most standard digital DVI resolutions (up to WUXGA/1080p) to a wide selection of analog HD component resolutions
- SD/HD output resolution support: 480i, 576i, 480p, 576p, 720p, 1080i, and 1080p
- Output picture adjustments include: contrast, brightness, hue, saturation, sharpness, RGB (color tone) level and aspect ratio
- Controllable via front-panel buttons with OSD



## DP to HDMI 6G Video Converter



CPLUS-VDHP

Last Gen. Model • CDPH-1P

**HDMI**  
HIGH-DEFINITION MULTIMEDIA INTERFACE

This converter is designed to convert any standard DisplayPort source, such as a PC or laptop, into an HDMI signal that can be viewed on standard HDMI displays. This unit supports PC-based EDID management software which allows the user to upload a custom or previously saved EDID for use with the connected source. EDID selection and indication LEDs provide a simple and convenient display of the current unit status.

- DisplayPort 1.2 and DVI 1.0 compatible
- HDCP 2.2/1.4 compliant
- Supports HDMI 4K@60Hz (YUV 4:4:4) and Deep Color up to 36-bit (12-bit/color)
- Supports Bitstream and HD Bitstream formats as well as uncompressed audio up to LPCM 7.1
- EDID management application provides control and EDID uploads via USB
- Allows EDID selections of internal, external, or user EDID



## mDP to HDMI Video Converter

CMDPH-2C

**HDMI**  
HIGH-DEFINITION MULTIMEDIA INTERFACE



This converter is designed to display your MAC /PC / Notebook content on an HDTV or monitor. No external power supply is required, as the model can be powered by USB directly. No need to install any software, the model can work with MAC / PC / NB in a plug-and-play fashion, the installation is easy to anyone.

- DVI 1.0 compatible and HDCP 1.x compliant
- Supports resolutions up to 1080p@60Hz and WUXGA@60Hz (RB)
- Supports RGB and YCbCr 4:2:2/4:4:4 color space
- Supports 8/10/12-bit color depth
- Supports bidirectional conversion between RGB and YCbCr
- Supports conversion from 12-bit to 8/10-bit
- Supports LPCM 2.0, 48kHz and 24-bit
- Automatic audio error detection and soft mute function
- Automatic loss of signal detection for link management

## mDP to DVI-DL Video Converter

CMDP-DL2DVI



This converter is specifically designed to allow Mini DisplayPort source to display on the Dual-link DVI display. Supported resolutions up to 2560×1600 and ideal for display Mac sources on DVI monitor, this device is powered by USB connection which makes it more convenient to power.

- DisplayPort 1.1 compatible
- DisplayPort input supports 1.62/2.7Gbps data rate (Low bit rate/High bit rate)
- Input/output support up to WQXGA (2560×1600) @60Hz (RB) VESA display format
- Easy to install and simple to operate
- No software installation
- Compact size with elegant design

## HDMI to Dual SDI Video Converter

CLUX-H2SDI

This converter allows HDMI signal conversion to SDI display. For professionals, it is now easier to convert their HDMI signal to SDI for long distance transmission. This unit features two SDI outputs for cascading other SDI-to-HDMI units to extend the signal over distance up to 300 meters. In addition, the external audio input allows you to insert the sound from a different audio source instead of the HDMI embedded audio and send to the SDI output. This unit has a built-in EDID management system that guarantees source and display compatibility.

- DVI 1.0 compatible
- Outputs to two SDI simultaneously for cascading HDMI signal over SDI cables
- Auto-detects the video format (SD/HD/3G) of the HDMI/DVI input
- Chooses between a selectable EDID and a recordable EDID
- Converts 480i@59.94Hz & 576i@50Hz to SD-SDI, 720p@50/59.94/60Hz & 1080i@50/59.94/60Hz to HD-SDI, and 1080p@23.98/24/25/29.97/30/50/59.94/60Hz to 3G-SDI
- Supports SMPTE 259M-C@270Mbps (SD-SDI), SMPTE 292M@1.485Gbps & 1.485/1.001Gbps (HD-SDI), and SMPTE 424M/425M-A@2.970Gbps & 2.970/1.001Gbps (3G-SDI)
- Supports SDI embedded audio signal up to LPCM 7.1 at 48kHz for HDMI input or LPCM 2.0 for DVI input (via L/R connectors)
- Supports transmission distance up to 300 meters for SD-SDI, 200 meters for HD-SDI, or 100 meters for 3G-SDI
- Does not process HDCP encrypted content



**HDMI**  
HIGH-DEFINITION MULTIMEDIA INTERFACE

## SDI to HDMI/SDI Video Converter

CLUX-SDI2HC

This converter allows SDI signal conversion to HDMI display. For professionals, it is now easier to extend their SDI signals while giving them the ability to display it on HDMI displays. This unit features a SDI bypass output for cascading multiple SDI-to-HDMI units to extend the signal over distance up to 300 meters. In addition, the analog stereo audio output allows you to send the audio signal originally embedded in the SDI input to an AV receiver or powered speakers.

- DVI 1.0 compatible
- Outputs to HDMI and SDI simultaneously
- Auto-detects the video format (SD/HD/3G) of the HDMI/DVI input
- Converts SD-SDI to 480i@59.94Hz & 576i@50Hz, HD-SDI to 720p@50/59.94/60Hz & 1080i@50/59.94/60Hz, and 3G-SDI to 1080p@23.98/24/25/29.97/30/50/59.94/60Hz
- Supports SMPTE 259M-C@270Mbps (SD-SDI), SMPTE 292M@1.485Gbps & 1.485/1.001Gbps (HD-SDI), and SMPTE 424M/425M-A@2.970Gbps & 2.970/1.001Gbps (3G-SDI)
- Supports SDI embedded audio signal up to LPCM 7.1 at 48kHz for HDMI output or LPCM 2.0 for DVI output (via L/R connectors)
- Supports transmission distance up to 300 meters for SD-SDI, 200 meters for HD-SDI, or 100 meters for 3G-SDI



**HDMI**  
HIGH-DEFINITION MULTIMEDIA INTERFACE

## HDMI to SDI Video Converter

CLUX-H2SDIA



This converter allows HDMI signal conversion to SDI display. For professionals, it is now easier to convert their HDMI signal to SDI for long distance transmission. In addition, the external audio input allows you to insert the sound from a different audio source instead of the HDMI embedded audio and send to the SDI output.

- Converts 480i@59.94Hz & 576i@50Hz to SD-SDI signal
- Converts 720p@50/59.94/60Hz & 1080i@50/59.94/60Hz to HD-SDI signal
- Converts 1080p@23.98/24/25/29.97/30/50/59.94/60Hz to 3G-SDI signal
- SD-SDI signal supports SMPTE 259M-C@270Mbps
- HD-SDI signal supports SMPTE 292M@1.485Gbps & 1.485/1.001Gbps
- 3G-SDI signal supports SMPTE 424M/425M-A@2.970Gbps & 2.970/1.001Gbps
- Supports transmission distance up to 300 meters for SD-SDI, 200 meters for HD-SDI, or 100 meters for 3G-SDI

## SDI to HDMI Video Converter

CLUX-SDI2HCA



This converter allows SDI signal conversion to HDMI display. For professionals, it is now easier to extend their SDI signals while giving them the ability to display it on HDMI displays. In addition, the external audio output allows you to send the audio signal originally embedded in the SDI input to an AV receiver or powered speakers.

- Converts SD-SDI to 480i@59.94Hz & 576i@50Hz resolutions
- Converts HD-SDI to 720p@50/59.94/60Hz & 1080i@50/59.94/60Hz resolutions
- Converts 3G-SDI to 1080p@23.98/24/25/29.97/30/50/59.94/60Hz resolutions
- SD-SDI signal supports SMPTE 259M-C@270Mbps
- HD-SDI signal supports SMPTE 292M@1.485Gbps & 1.485/1.001Gbps
- 3G-SDI signal supports SMPTE 424M/425M-A@2.970Gbps & 2.970/1.001Gbps
- Supports transmission distance up to 300 meters for SD-SDI, 200 meters for HD-SDI, or 100 meters for 3G-SDI

## DVI to SDI Video Converter

CLUX-DVI2SDIA



This converter allows DVI signal conversion to SDI display. For professionals, it is now easier to convert their DVI signal to SDI for long distance transmission. In addition, the external audio input allows you to insert the sound from a DVI audio source and send to the SDI output.

- Converts 480i@59.94Hz & 576i@50Hz to SD-SDI signal
- Converts 720p@50/59.94/60Hz & 1080i@50/59.94/60Hz to HD-SDI signal
- Converts 1080p@23.98/24/25/29.97/30/50/59.94/60Hz to 3G-SDI signal
- SD-SDI signal supports SMPTE 259M-C@270Mbps
- HD-SDI signal supports SMPTE 292M@1.485Gbps & 1.485/1.001Gbps
- 3G-SDI signal supports SMPTE 424M/425M-A@2.970Gbps & 2.970/1.001Gbps
- Supports transmission distance up to 300 meters for SD-SDI, 200 meters for HD-SDI, or 100 meters for 3G-SDI

## SDI to DVI Video Converter

CLUX-SDI2DVIA



This converter allows SDI signal conversion to DVI display. For professionals, it is now easier to extend their SDI signals while giving them the ability to display it on DVI displays. In addition, the external audio output allows you to send the audio signal originally embedded in the SDI input to an AV receiver or powered speakers.

- Converts SD-SDI to 480i@59.94Hz & 576i@50Hz resolutions
- Converts HD-SDI to 720p@50/59.94/60Hz & 1080i@50/59.94/60Hz resolutions
- Converts 3G-SDI to 1080p@23.98/24/25/29.97/30/50/59.94/60Hz resolutions
- SD-SDI signal supports SMPTE 259M-C@270Mbps
- HD-SDI signal supports SMPTE 292M@1.485Gbps & 1.485/1.001Gbps
- 3G-SDI signal supports SMPTE 424M/425M-A@2.970Gbps & 2.970/1.001Gbps
- Supports transmission distance up to 300 meters for SD-SDI, 200 meters for HD-SDI, or 100 meters for 3G-SDI

## HDMI to VGA Video Converter

CP-1262HE



This converter is designed to convert a digital HDMI signal to an analog VGA (via 15-pin D-sub cable) or Component Video (via 3-RCA cable) signal with de-embedding of analog 2.0 audio. This unit supports a full range of resolutions up to WUXGA@60Hz (RB) and 1080p@60Hz, enabling you to display a HDMI source on a computer monitor or high-definition television.

- Supports digital HDMI input and analog VGA (or Component Video) output
- Support "RGB" and "YPbPr" color space selection at output
- Supports VGA to WUXGA (RB) and 480i to 1080p resolutions
- Built-in EDID management function
- DVI 1.0 compatible and HDCP 1.x compliant (Note: Only non-HDCP signals can be converted.)

## VGA to HDMI Video Converter

CP-1261HS

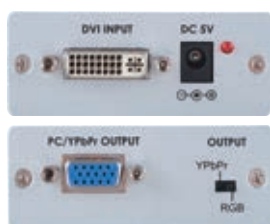


This converter is designed to convert an analog VGA (RGB) or Component Video (YPbPr) signal to a digital HDMI signal with embedding of analog 2.0 audio. This unit supports a full range of resolutions up to WUXGA@60Hz (RB) and 1080p@60Hz, enabling you to integrate PC/HD sources into HDMI system. Further, its phase enhancement function allows you to freely adjust phase to stabilize image quality.

- Supports a full range of TV resolutions (480i~1080p) and PC resolutions (640×480~1920×1200)
- Supports analog 2.0 audio embedding to HDMI audio (48kHz sampling rate)
- Support "RGB" and "YPbPr" color space selection at input
- Supports phase adjustment to the output image
- DVI 1.0 compatible and HDCP 1.x compliant (Note: Only non-HDCP signals can be converted.)

## DVI to VGA Video Converter

CP-1262DE

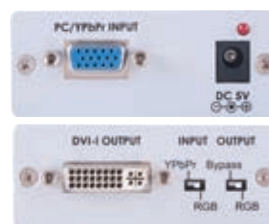


This converter is designed to convert a digital DVI signal to an analog VGA (via 15-pin D-sub cable) or Component Video (via 3-RCA cable) signal. This unit supports a full range of resolutions up to WUXGA@60Hz (RB) and 1080p@60Hz, enabling you to display a DVI source on a computer monitor or high-definition television.

- Supports digital DVI input and analog VGA (or Component Video) output
- Support "RGB" and "YPbPr" color space selection at output
- Supports VGA to WUXGA (RB) and 480i to 1080p resolutions
- Built-in EDID management function
- HDCP 1.x compliant (Note: Only non-HDCP signals can be converted.)

## VGA to DVI Video Converter

CP-1261D



This converter is designed to convert an analog VGA (RGB) or Component Video (YPbPr) signal to a digital DVI signal. This unit supports a full range of resolutions up to WUXGA@60Hz (RB) and 1080p@60Hz, enabling you to integrate PC/HD sources into DVI system.

- Supports a full range of TV resolutions (480i~1080p) and PC resolutions (640×480~1920×1200)
- Support "RGB" and "YPbPr" color space selection at input
- Support "RGB" and "Bypass" color space selection at output
- HDCP 1.x compliant (Note: Only non-HDCP signals can be converted.)

## Component Video to HDMI Video Converter

CP-280H



This converter is designed to convert a video signal from a Component Video source to a HDMI signal, enabling you to display analog video on a digital HDTV. This unit supports a full range of TV resolutions up to 1080p@60Hz and the resolution of the video signal at output is the same as the input signal.

- Supports Component Video (YCbCr/YPbPr) conversion to HDMI
- Supports digital (Optical) audio input embedded in HDMI output
- Supports TV resolutions of 480i@60Hz, 576i@50Hz, 480p@60Hz, 576p@50Hz, 720p@50/60Hz, 1080i@50/60Hz, 1080p@24/25/30Hz, 1080p@50/60Hz

CP-281H



This converter is designed to convert a video signal from a Component Video source to a HDMI signal, enabling you to display analog video on a digital HDTV. This unit supports a full range of TV resolutions up to 1080p@60Hz and the resolution of the video signal at output is the same as the input signal.

- Supports Component Video (YCbCr/YPbPr) conversion to HDMI
- Supports analog or digital (Coaxial) audio inputs embedded in HDMI output
- Supports TV resolutions of 480i@60Hz, 576i@50Hz, 480p@60Hz, 576p@50Hz, 720p@50/60Hz, 1080i@50/60Hz, 1080p@24/25/30Hz, 1080p@50/60Hz
- Offers a switch selection of audio source (Coaxial or L/R)

## VGA to YPbPr Video Converter

CP-264



This converter is a plug-and-play PC/RGBHV to YPbPr video converter. It enables you to view PC graphic image on a HDTV via YPbPr connection. The input signal is not scaled meaning the signal timing of input and output are the same.

- VGA input via 15-pin D-sub connector
- Component Video output via RCA connectors
- Accepts interlaced and progressive resolutions
- Output resolution is dependent on input

## YPbPr to VGA Video Converter

CP-265



This converter is a plug-and-play YPbPr to PC/RGBHV video converter. It allows you to view HD images from your DVD players, video games, or set-top boxes on your PC monitors or projectors via VGA connection. The input signal is not scaled meaning the signal timing of input and output are the same.

- Component Video input via RCA connectors
- VGA output via 15-pin D-sub connector
- Accepts interlaced and progressive resolutions
- Output resolution is dependent on input



## CV/SV to YPbPr Video Converter

CP-VSRGB



This converter is designed for converting Composite Video/ S-Video signal such as iPod, DVD, X-Box to the component or RGsB for connecting to SDTV or projector.

- Automatically recognizes the source system
- Suitable for worldwide video system of NTSC3.58, NTSC4.43, PAL, PAL-M, PAL-N and SECAM
- Supports Composite Video and Super Video input
- The output format is selectable between RGB and YCbCr
- Power saving mode
- Simple plug and play unit

## CV to RGB/RGsB Video Converter

CAR-2G



This converter can automatically detect incoming NTSC, PAL, or SECAM signal (via Composite Video input) and converts to RGsB or RGBs signal (via 9-pin D-sub output).

- Digital decoding and encoding ensures best picture quality
- Converts NTSC/PAL/SECAM Composite Video to RGB/Sync or RGsB (Sync on Green)
- Video field conversion 50Hz<->60Hz through SW2 switch on the PC board
- RGBS input loop through
- Sync polarity switchable between positive and negative through SW4 switcher on the PC board
- 6M field memory
- Bare-wires RGBS input/output
- Universal interface for vehicles with no plug and play solution, cutting and slicing will be required

## TV System Converter (Integrated Genlock & Time Base Correction)

CDM-831TR

Family Model • CDM-831T



This converter automatically detects incoming NTSC, PAL, or SECAM signal and converts to NTSC, PAL, or SECAM signal. It also supports Genlock, Time Base Correction (TBC) and Automatic Gain Control (AGC) functions and accepts a wide range of input and output TV systems including NTSC 3.58, NTSC 4.43, PAL, PAL-M, PAL-N, and SECAM.

- Two sets video and S-VHS inputs
- One output for each of Composite Video, S-VHS and Y, B-Y, R-Y
- Input system auto detection
- Digital conversion from input TV signals of NTSC 3.58, NTSC 4.43, PAL, PAL-M, PAL-N, SECAM to output signals of NTSC 3.58, NTSC 4.43, PAL, PAL-M, PAL-N, SECAM
- Digital comb filter for input system decoding

- Built-in Time Base Correction (T.B.C) function for signal synchronization
- Built-in automatic gain control (A.G.C) function ensures 1 Vp-p output signal (input level can range from 0.5 Vp-p to 2 Vp-p)
- Full digital decoding and encoding; highly integrated digital processing reduces the board size and ensures reliable quality
- A color-bar pattern will automatically appear on the TV screen when there is no video signal present on the input
- TBC is active constantly, even in the bypass mode
- Built-in TBC/Genlock capability for synchronizing multiple asynchronous video sources
- Adjustable control on contrast, brightness, color, tint, sharpness, backcolor, sub-carrier and Horizontal/Vertical phase of TBC video

## TV System Converter

CDM-660



This converter can automatically detect incoming NTSC, PAL, or SECAM input signal and converts to NTSC or PAL output signal.

- Built-in color bar pattern
- Input automatic detection
- Supports conversion from input TV signals of NTSC, N4, PAL, PAL-M, PAL-N, SECAM to output signals of NTSC or PAL
- Digital line (525 625 lines) and field (60 input 50 field) conversion
- 6M bit field memory

## TV System Converter

CDM-150



This converter can automatically detect incoming NTSC, PAL, or SECAM input signal and converts to NTSC or PAL output signal.

- Supports video format conversion from NTSC, N4, PAL, PAL-M, PAL-N, SECAM to NTSC or PAL
- Converts 525 lines to/from 625 lines
- Converts refresh frequency between 60Hz and 50Hz
- Provides color bar pattern when there is no signal present
- System is capable with 8 Mb field memory

## TV System Converter

CDM-160



This converter can automatically detect incoming NTSC, PAL, or SECAM input signal and converts to NTSC or PAL output signal.

- Supports video format conversion from NTSC, N4, PAL, PAL-M, PAL-N, SECAM to NTSC or PAL
- Converts 525 lines to/from 625 lines
- Converts refresh frequency between 60Hz and 50Hz
- Provides color bar pattern when there is no signal present
- System is capable with 8 Mb field memory

## HDMI 4K Video Player

CDPS-UP301



This video player provides a convenient and straightforward way of playing back pre-recorded 4K UHD video and audio via HDMI. This unit can play video files stored on an SD card, or on USB storage devices such as hard drives and flash drives. In addition to basic video playback, the unit can extract the audio signal from the source and break it out into digital S/PDIF or analog stereo for output to an amplifier or for further applications.

Featuring extensive user-friendly control options, the player can be controlled with front panel buttons via On-Screen Display (OSD), IR remote control, Telnet, WebGUI and RS-232. With support for up to 8 Trigger connections and 2 Relay connections, this 4K HDMI video player is an ideal solution for commercial displays, home theaters or personal usage.

- HDMI with 4K resolution support
- Supports HDTV resolutions up to 4K@60Hz (YUV 4:4:4)
- 4K HDMI input to output bypass
- Plays H.265 encoded video files
- Plays video files stored on SD card, USB hard drive or flash drive
- Switch between video playback and HDMI input
- Supports passthrough of LPCM 2.0 audio
- Supports internal EDID
- Supports CEC bypass
- Supports S/PDIF digital audio output through the TOSLINK optical output
- Easy operation by front panel with OSD, Telnet, WebGUI, IR remote or RS-232

## 4-Port HDMI Extender

CETH-4HDI



This extender allows the user to display the output from a PC/Laptop on up to four TV/Monitors either by direct connection (via USB or CAT cable) or over a network connection. For the home, it makes it easy to have multiple screens for browsing the internet, editing word processor documents or playing music or movies simultaneously on all connected displays.

In the workplace, it can allow attendees in a meeting room to access the display from their laptop over a network without having to fumble with cables or it can display a single advertisement stretched over 4 displays to distances of up to 100m. It can also be used as a simple USB to HDMI signal converter through its USB 2.0 connection. Each HDMI output can display different content, mirror the main screen or can even stretch the image over 4 screens to create a video wall.

- Displays content on up to 4 HDMI displays over a network or directly from PC/Laptop with USB connection
- Supports HD resolutions up to 1920x1080 for each HDMI output
- Individual EDID selection (INT/EXT) for output display control
- USB 2.0 (Hi-speed) compatible
- Supports Gigabit Ethernet TCP/IP protocols
- 3.5 mm mini-jack external input for embedding HDMI audio
- Extend or mirror audio and video through a network or USB cable on up to 4 HDMI displays
- Supports 16/32-bit Color for high-quality display
- Adds four HDMI displays to your computer through a single USB 2.0 port
- Share four HDMI display with multiple users through an existing network (up to 100m)
- Supports Individual display resolution on each HDMI output

## Multi-Format to USB Converter

CUSB-603



This converter can receive HDMI, Component Video, Composite Video or S-video input and record to H.264/MPEG-4 AVC output for displaying HD signal on your PC. In addition, the low power consumption and superior video processing capabilities make this unit ideal for integration into high-end portable and desktop PC products.

- Supports HDMI, Component Video, Composite Video, and S-Video signal conversion to USB 2.0
- Supports SD/HD resolutions up to 1080p@60Hz and NTSC/PAL video input
- Supports LPCM 2.0 audio format and sampling rates of 44.1kHz and 48kHz via HDMI input
- Supports analog stereo audio format via 3.5mm input
- Built-in H.264/MPEG4-AVC high-definition encoder
- Supports MPEG-4 Advanced Audio Coding (AAC)
- Powered via USB bus power with low power consumption

CUSB-601H



This converter can receive HDMI input and record to H.264/MPEG-4 AVC output for displaying HD signal on your PC. In addition, the low power consumption and superior video processing capabilities make this unit ideal for integration into high-end portable and desktop PC products.

- Supports HDMI signal conversion to USB 2.0
- Supports SD/HD resolutions up to 1080p@60Hz video input
- Supports LPCM 2.0 audio format and sampling rates of 44.1kHz and 48kHz via HDMI input
- Built-in H.264/MPEG4-AVC high-definition encoder
- Supports MPEG-4 Advanced Audio Coding (AAC)
- Powered via USB bus power with low power consumption

## USB to HDMI/VGA Converter

CDL-165HUB



This converter allows you to view any PC information on a compatible TV. An additional feature of this product is that it includes extra USB ports allowing it to perform KVM operations next to the TV, which is an added bonus for those of us who are multi-taskers.

- Supports HDMI & VGA outputs
- 16/32-bit Color for high-quality images
- HD resolution up to 1920 x 1080
- HDMI and RGB display connectivity
- EDID selection with switch for VGA or HDMI output

## 4-Port USB Extender

CETH-4USB



This extender allows you to utilize your USB devices over an existing network installation or connect directly to your PC or laptop. For home, commercial or retail environments this device allows hands-on control of USB devices for users within the same network. Compatible with a wide range of USB devices, you can control up to four different devices up to 100 meters away.

- USB Hub - Control up to 4 four USB devices
- Capable of high-speed (480 Mbps), full-speed (12 Mbps) and low-speed (1.5 Mbps) USB connection speeds (overall speed in LAN Mode might be limited by the bandwidth of the network)
- Works up to 100 meters away (in Extender Mode)
- Connect to existing network or directly to PC with RJ45 cable
- USB 2.0 (Hi-speed) compatible
- Supports Ethernet protocols TCP/IP
- Supports 10/100/1000 Mbps Ethernet speeds

## Digital AV Effect Processor

CMX-112

Family Model • CMX-12



This unit is a high-quality AV effects processor for amateur or professional video and audio mixing. Each Bus can be connected to up to 6 inputs (2 HDMI, 2 Component Video & 2 Composite Video/S-Video) and various effects can be added by the users. It supports Standard-Definition (SD) or High-Definition (HD) resolutions (480i/p, 576i/p, 720p@50/60Hz & 1080i@50/60Hz) and most of the worlds TV systems (NTSC, NTSC 4.43, PAL, PAL-M, PAN-N & SECAM) via HDMI, Component Video, Composite Video or S-Video outputs. The output resolution can be set via the On-screen Display (OSD) on the "SD PREVIEW" outputs or by pressing a combination of two buttons for one second.

- Features 2 HDMI, 2 Component Video (YPbPr), 2 Composite Video, and 2 S-Video inputs
- Features 1 HDMI, 2 Component Video (YPbPr), 1 Composite Video, and 1 S-Video outputs for video recording
- Features 1 Composite Video and 1 S-Video outputs for video preview
- Features 1 Microphone and 5 Stereo Audio inputs
- Features 1 Headphones and 2 Stereo Audio outputs
- Supports video effects such as Still, Mosaic, Paint, and Negative
- Supports 96 Wipe patterns
- Supports Picture-in-Picture (PiP) technology (including 3 window sizes)
- Supports Fade/Mix function for video and audio signals
- Supports Chroma Key and Luminance Key functions
- Supports 8 background colors
- Controls the transition time of the programmed wipe and fade functions
- Controls the position of the "Shape" wipe pattern or the PiP



- windows via joystick
- Supports 3D comb filter and Y/C separation
- Supports motion and edge adaptive de-interlacing
- Supports contrast, brightness, color, hue, detail, and aspect ratio adjustment for each Bus
- Supports audio delay up to 170ms

## Analog AV Effect Processor

CMX-07

This unit is a high-quality AV effects processor for amateur or professional video and audio mixing. Each Bus can be connected to up to 4 inputs (2 Composite Video and 2 S-Video) and various effects can be added by the users. It supports most of the worlds TV systems NTSC, NTSC 4.43, PAL, PAL-M, PAN-N & SECAM via Composite Video or S-Video outputs. The output resolution can be set by pressing a combination of two buttons for one second.

- Features 2 Composite Video and 2 S-Video inputs
- Features 2 Composite Video and 2 S-Video outputs for video recording
- Features 4 Composite Video outputs for video monitoring
- Features 1 Microphone and 3 Stereo Audio inputs
- Features 1 Headphones and 2 Stereo Audio outputs
- Supports video effects such as Still, Strobe, Mosaic, Paint, and Negative
- Supports 96 Wipe patterns
- Supports Picture-in-Picture (PiP) technology (including 3 window sizes)
- Supports Fade/Mix function for video and audio signals
- Supports Chroma Key and Luminance Key functions
- Supports 8 background colors
- Controls the position of the "Shape" wipe pattern or the PiP windows via joystick



## 3D Video Demultiplexer

CH-322

This unit is designed to separate a 3D signal into its left and right signals for sending to two 2D projectors. The 3D signal must be sent via a 1-by-2 HDMI splitter and each of the two 3D signals must be passed through a 3D demultiplexer whereby the left or right signal can then be passed through to each of the two 2D projectors.

When alighted correctly, the two 2D projectors can then display each signal to produce a 3D image which can be viewed using polarized 3D glasses. In addition, the 3D demultiplexer can convert 3D signals to 2D for use with 2D screens. This unit automatically detects the 3D or 2D content, and checks if 3D content is in either Side-by-Side or Frame Packing formats.

- Supports 3D content separations for Left/Right fields
- Automatically detects 2D or 3D contents
- Automatically detects if 3D content is Side-by-Side or Frame Packing
- 2D resolution supports: 480i/p, 576i/p, 720p@50/60, 1080i@50/60 and 1080p@50/60
- 3D resolution supports: 720p@50/60 (Frame Packing and Side-by-Side), 1080p@24 (Frame Packing)
- Output supports 1080p@60Hz only
- Push button selection of Left or Right side fields
- Convert 3D signal to 2D for display on non-3D TVs/monitors/projectors

**HDMI**  
HIGH-DEFINITION MULTIMEDIA INTERFACE



## Video Overlay Processor

CPT-2370



This unit is designed to overlay a PC/Graphics signal onto a Video signal or vice versa. It has the added feature of converting a variety of VGA sources to a Video signal. It is ideal for use in applications like video conferencing, home theater, business presentations and lecture hall.

- Superimpose PC text and graphics onto another video signal or superimpose a Video signal onto a VGA source
- VGA: 640x480, 800x600, 1024x768, 1280x1024, 1600x1200
- Video: NTSC, NTSC4.43, PAL, PAL-M, PAL-N or SECAM
- Supports PC and Video picture adjustment
- Supports Key adjustment and PC aspect adjustment
- Supports Zoom and Pan functions
- Supports vertical and horizontal Overscan/Underscan control
- Automatically frame rate conversion from 56Hz up to 85Hz
- Cross-platform compatibility for PC or Mac
- Simultaneous video outputs
- Remotely controlled via RS-232 or IR remote

## Chroma Key Processor

CBK-10



This unit is a great design that supports Video or S-Video as the main source and the other Video or S-Video input as the background source. The background sources along with 6 background colors chroma key effects. The main source can stand in front of the background source and using the chroma key to take off the background colors to perform the different color effects. Also, using level adjust knob to control the color effect levels.

- Supports NTSC 3.58, NTSC 4.43, PAL, PAL-M, PAL-N & SECAM
- Phase keying supports Red, Green, and Blue chroma key
- Luma keying supports Blue, Black, and White chroma key
- Input sources support Key source and Background source with Video and S-Video inputs
- Output support Video 1, Video 2, S-Video 1, and S-Video 2
- Adjustable knob of controlling Background color effect levels

# HDMI 6G Signal Generator with HDR Analysis

CPHD-V4

**HDMI**  
HIGH-DEFINITION MULTIMEDIA INTERFACE

This unit is an advanced and handy tool for generating, testing and verifying the signal path within your 6G HDMI ecosystem. With 88 built-in resolutions, 55 test patterns and over a dozen types of A/V analysis functions, this unit provides an enormous range of testing options. HDMI data packet, EDID and HDCP analysis is supported along with EDID upload and emulation. Additionally the Status and Control Data Channel (SCDC) can be monitored, allowing 6G HDMI signal detection and analysis. Up to 8 channels of LPCM audio test tones can be generated with a wide range of frequencies.

This unit also supports the ability to upload up to 2 user-generated graphic files which can be used as additional test patterns. The use of multi-function and multi-color backlit buttons allows for easy operation of the unit's wide variety of functions and a clear OLED display provides a way to quickly view the current signal status information. In addition to the front panel buttons, the unit can also be controlled via RS-232, Telnet and IR providing a complete range of control options.

- HDMI bandwidth support up to 18Gbps/600MHz
- DVI 1.0 compatible and HDCP 2.2/1.4 compliant
- Analysis of source and sink data paths up to 6G HDMI signals
- Analysis of HDMI data packets
- Analysis and control of HDCP 1.4 and 2.2
- Analysis and emulation of EDID data, including SCDC
- Analysis of input audio signals
- HDR bypass and analysis support
- Generates HDMI timings up to 18Gbps (600MHz), including 4096×2160@60Hz (4:4:4, 8-bit)
- Generates HDMI and VGA signal outputs
- VGA output supports 350p, 480p, 576p, 720p, 1080i, 1080p, 640×480, 800×600, 1024×768, 1280×1024, 1366×768, 1400×1050, 1440×900, 1600×900 (RB), 1600×1200, 1680×1050, 1920×1200 (RB), 2048×1080p
- HDMI output supports 350p, 480p, 576p, 720p, 1080i, 1080p, 640×480, 800×600, 1024×768, 1280×1024, 1366×768, 1400×1050, 1440×900, 1600×900 (RB), 1600×1200, 1680×1050, 1920×1200 (RB), 3G4K, 6G4K
- 2 custom user test pattern resolutions - 640×480 & 1920×1080
- External stereo audio input and output
- Generation of LPCM sinewave audio on up to 8 channels
- Front-panel, RS-232, Telnet, and IR Remote controls
- OLED display with rapid updates of current status information
- Detailed OSD for settings and informational displays
- Supports USB firmware and pattern update



## HDMI 6G Signal Generator

CPLUS-11HB

This unit is a simple and convenient tool for generating HDMI audio and video signals to test HDMI devices. This unit comes with 4 test patterns, 8 standard HD and UHD test timings, the ability to select the HDCP output standard used (1.4, 2.2 or none), and 2 audio source types (analog stereo and digital optical) which is embedded into the HDMI output signal. The colorful and easy to read status LEDs provide a simple and convenient display of the current unit status.

- HDMI with 18Gbps (600MHz) bandwidth support
- HDCP 2.2/1.4 compliant
- Supports HD and UHD resolutions including 1280×720p@50/60Hz, 1920×1080p@50/60Hz, 3840×2160@25/30/50/60Hz (4:4:4, 8-bit)
- Generates HDCP v1.4/v2.2 or non-HDCP signals for testing display compatibility
- A selection of simple 8 test timings and 4 test patterns
- Supports embedding analog stereo or digital optical audio into the HDMI output
- Integrated Over Voltage Protection (OVP)
- Easy to read status LEDs displaying the current unit status



## HDMI Signal Generator with 3D Analyses

CH-A1

This unit is a small but advanced tool for checking both HDMI sources (such as Blu-ray or DVD players) and HDMI displays (such as TVs or monitors). With touch buttons and OLED display, this unit can show the current status information of both the input and output devices connected to it by HDMI cables.

This unit can be used to analyze the InfoFrame of the input source and the EDID of the output sink. It also has a built-in pattern generator that can be used to test the capabilities of the output device including resolution/timing, 3D, and HDCP support.

- Supports 25 test timings and 6 test patterns, plus 3D signals
- Supports analyses of InfoFrame from the source and EDID from the display
- Supports TV resolutions: 480i@60Hz, 576i@50Hz, 480p@60Hz, 576p@50Hz, 720p@50/60Hz, 1080i@50/60Hz, 1080p@24/50/60Hz
- Supports PC resolutions: 640×480@60Hz, 800×600@60Hz, 1024×768@60Hz, 1280×1024@60Hz, 1920×1200@60Hz
- Supports 3D resolutions:
  - Frame Packing: 720p@50/60Hz, 1080p@24Hz
  - Side-by-Side (Half): 720p@50/60Hz, 1080p@24Hz
  - Top-and-Bottom: 720p@50/60Hz, 1080p@24Hz
- Supports audio test patterns including LPCM 2.0CH@48/96/192kHz, LPCM 5.1@48/96kHz, and LPCM 7.1@48/96kHz
- Supports three types of CEC (Consumer Electronics Control) settings
- Supports enable/disable ARC (Audio Return Channel) settings
- Supports 8/10/12-bit Deep Color settings
- Supports color depth up to 36-bit (Deep Color) at 1080p@60Hz
- Supports passthrough of LPCM 2.0/5.1/7.1, Bitstream, and HD Bitstream audio formats
- OLED display with rapid updates of current status information
- Detailed OSD for settings and informational displays
- HDCP 1.x compliant



## HDMI Signal Generator with HDCP & EDID Analyses

CPHD-1

**HDMI**  
HIGH-DEFINITION MULTIMEDIA INTERFACE

This unit is an advanced tool for generating HDMI audio and video signals to test HDMI devices. This unit comes with 39 test patterns and 39 standard SD and HD test timings, HDCP/EDID analyses, and 3 audio sources (analog stereo, digital optical, and internal sinewave) embedding into the HDMI output signal for complex HD systems. This unit can be controlled via front-panel buttons or IR remote control and results viewed on a LCM display.

- Provides 39 test timings and 39 test patterns
- Test timings include SD/HD resolutions up to 1080p@60Hz and PC resolutions up to WUXGA@60Hz (RB)
- Test patterns include graphic tests and data analyses
- Supports analyses of HDCP and EDID information
- Supported color space selection of RGB 4:4:4, YUV 4:4:4, and YUV 4:2:2
- Supports Auto-run demonstration function of automatically running the selected timings/patterns in sequential order
- Outputs HDMI/DVI or analog PC/HD (Component Video) signals
- Selects audio source from analog stereo, digital optical or internal sinewave
- Supports color depth up to 24-bit (Deep Color) at 1080p@60Hz
- LCM display with rapid updates of current status information
- Controls via front-panel buttons, IR remote control, and RS-232 commands
- PC-based RS-232 management software
- HDCP 1.x compliant



## HDMI Signal Generator with HDCP Analysis

CPA-4

**HDMI**  
HIGH-DEFINITION MULTIMEDIA INTERFACE

This unit is an integrators tool for producing HDMI signals for verifying and testing digital AV systems. This unit has 12 resolutions and 36 patterns which provide over a hundred different combinations of test scenarios. It also supports HDCP and EDID analysis, along with the ability to generate sinewave audio up to LPCM 7.1.

- DVI 1.0 compatible and HDCP 1.x compliant
- HDMI bandwidth: 1.65Gbps (single-link)
- Output PC resolutions: VGA@60Hz, SVGA@60Hz, XGA@60Hz, SXGA@60Hz, UXGA@60Hz, WUXGA@60Hz (RB)
- Output HD resolutions: 576p@50Hz, 480p@60Hz, 720p@50Hz, 720p@60Hz, 1080p@50Hz, 1080p@60Hz
- Output Signal: DVI, HDMI, Auto-detect
- Patterns: 8 groups with 36 patterns
- Audio Source support Internal 1kHz Sinewave with 48kHz sampling rate and External optical input
- HDMI Audio Outputs support From internal 1kHz Sinewave and converted to 8 channels LPCM with 48KHz sampling rate or from external optical input
- Supports VESA EDID v1.3 and EIA/CEA 861 v3



## Analog TV System Generator

LPM-55

This unit is an integrators tool for producing NTSC, PAL, and SECAM signals for verifying and testing analog TV systems. This unit has 6 resolutions and 55 patterns which provide over a hundred different combinations of test scenarios.

- Built-in On-Screen Display indicates the TV system of the output pattern
- Fourteen basic test patterns are provided, which include Circle, 8-step Grey Scale, 16-step Grey Scale, Color Bar, Multiburst, Color Difference R-Y, B-Y, Moving White Field, White Pattern, Checkerboard, Crosshatch, Dots, Center Cross, and Purity Patterns
- More than 100 different test patterns are available through the combination of 14 basic patterns
- Multiburst pattern comprises full screen definition pattern of 8 vertical bars at frequencies of 0.1-1.8-2.8-3.0-3.4-3.8-4.8MHz
- Four different speeds are available for the Moving White Field for testing fast motion picture
- Multisystem output suits worldwide TV system: NTSC 3.58, NTSC 4.43, PAL, PAL M, PAL N, and SECAM
- Three video output formats: Composite Video, Y/C Separation, Color Difference Y, R-Y, B-Y



## HDMI EDID/CEC Selector

CED-S11

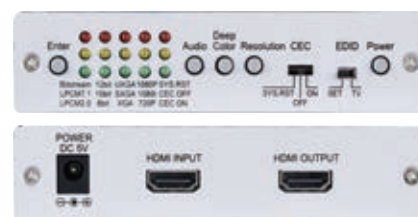
This unit is designed to manipulate the HDMI/DVI EDID (Extended Display Identification Data) information to be provided to source device for it to know the capabilities of the connected (downstream) display equipment and output the video/audio signal accordingly.

Aiming to simplify the technical complications involved in video/audio system integration, home theater installation, video/audio equipment testing and experiment, this unit provides selections (SET Mode) of the major video/audio parameters including video resolution, video color depth, and audio format.

This unit has an EDID Bypass Mode (TV Mode) for comparison and verification. The additional CEC options allows user to turn on/off the CEC communication between source and display, or reset the display's setting to its first HDMI input port for every 8~10 minutes.

- DVI 1.0 compatible
- Supports HDMI features:
  - High bandwidth up to 225MHz (6.75Gbps)
  - Resolutions up to 1080p Full HD
  - 12-bit Deep Color
  - Up to LPCM 7.1, Bitstream, and HD Bitstream audio formats
- Provides an embedded EDID set for modification
- Supports EDID Bypass mode, for source device to read EDID from connected display directly
- Supports CEC communication modes: on, off, and system reset
- Supports HDMI input/output distance up to 10m with 8-bit resolution or 15m with 12-bit resolution

**HDMI**  
HIGH-DEFINITION MULTIMEDIA INTERFACE



## HDMI 6G EDID Emulator

CED-2M



**HDMI**  
HIGH-DEFINITION MULTIMEDIA INTERFACE



This unit is designed to manage and manipulate the EDID information provided to a connected HDMI source device. EDID contains critical information about the capabilities of the connected display, including audio and video format support, HDMI feature support, etc. It aims to simplify the technical complications that often arise when performing video system integration, home theater installation, display room setup, or audio/video equipment testing.

This unit provides the ability to not only select between the display's native EDID and pre-made EDIDs, but it also allows the user to copy EDIDs from other displays and use them, or to create their own customized EDID using the PC-based EDID management software.

- HDMI input and output with 18Gbps (600MHz) 4K UHD support
- DVI 1.0 compatible with the use of an HDMI-DVI adaptor
- HDCP 2.2/1.4 compliant
- Supports 4K to 1080p downscaling (no frame rate conversion)
- Supports HD resolutions up to 3840x2160@60Hz (4:4:4, 8-bit) & 4096x2160@60Hz (4:4:4, 8-bit)
- Supports 48-bit Deep Color up to 1080p@60Hz
- Supports passthrough of LPCM 7.1, Bitstream, and HD Bitstream audio formats
- Supports CEC passthrough
- Provides HDMI 5V recovery
- Outputs a basic video signal (blue screen with OSD support) when there is no live source, or if the source has audio only
- PC-based EDID management tool support
- 8 built-in standard EDIDs, 8 slots for user-created or learned EDIDs, and EDID bypass support

- Supports four distinct EDID functions:
  - Read: Read and copy the connected display's EDID into the unit
  - Write: Overwrite connected display's EDID (only available on displays which explicitly support the overwrite function)
  - Emulation: The HDMI input device reads the EDID stored within the unit (built-in, learned, or created)
  - Bypass: The HDMI input device reads the EDID directly from the connected display
- Supports auto-correction of EDID header errors on checksums 0 & 1
- Easy to read status LEDs to indicate HDCP support on both input and output
- Control via front-panel buttons with OSD, or by PC software via USB

## HDMI 4K EDID Emulator

CED-1M

**HDMI**  
HIGH-DEFINITION MULTIMEDIA INTERFACE



This unit is designed to allow the adjustment of HDMI/DVI EDID information that is provided to a source device by a connected display so that it can output the correct video/audio signal. Aiming to simplify the technical complications involved in video/audio system integration, home theater installation, video/audio equipment testing and experimentation, the unit's learning function allows the user to Read and Write the video/audio EDID to the system. It also supports EDID Emulation and Bypass modes.

- DVI 1.0 compatible
- Supports the following HDMI features:
  - High video bandwidth up to 300MHz/9Gbps
  - Resolutions up to 1080p@60Hz and 4K@24/25/30Hz
  - 12-bit Deep Color
  - Up to LPCM 7.1, Bitstream, and HD Bitstream audio formats (Sampling rates from 32kHz to 192kHz)
- Supports four different EDID functions:
  - Read: Reads the TV/display's EDID information
  - Write: Overwrites the TV/display's EDID information (TV/display needs to support overwrite function)
  - Emulator: Allows the source device to read the selected EDID information from the unit's Default or Learned EDID memory
  - Bypass: Allows the source device to read the EDID information directly from the TV/display
- Supports up to 8 sets of default EDID settings
- Supports CEC and EDID passthrough
- Supports being powered by USB or compatible HDMI input

## HDMI 6G Bandwidth Converter

CPLUS-VHHE



This unit is a handy device to include in your HDMI signal tool box. With support for full 6G HDMI bandwidth (up to 6Gbps per channel), HDCP analysis and conversion, EDID management, and YUV 4:2:0 color subsampling, this unit can help solve or diagnose many common HDMI issues. This unit provides a quick and easy way to view the status of an HDMI signal.

Additionally, this unit provides a robust EDID management system, allowing the user to download or upload existing EDIDs, or to create a basic custom EDID from scratch for use within the unit. The unit's included hot keys and simple LED design allows the user to quickly switch between different configurations while viewing the HDMI status information.

- DVI 1.0 compatible, HDCP 2.2/1.4 compliant
- Video source signal and display EDID analysis
- HDCP 2.2 to 1.4 conversion
- EDID selectable between internal, external and user's EDIDs
- Supports application control via USB connection
- LED display with easy viewing of the current signal status
- Supports firmware updates via USB
- Supports 18Gbps (600MHz) bandwidth bypass and 6G HDMI color subsampling to 3G (4K@50/60Hz, YUV 4:4:4 to 4K@50/60Hz, YUV4:2:0)



## HDMI 6G Cable Analyzer

CPLUS-V4H4HPCT



With the rapid increase in HDMI's signal bandwidth from 225MHz to 340MHz and now to 600MHz, the quality of the HDMI cables you use has become more and more critical. A cable's listed type or specification isn't always telling the full story and other factors beyond simple bandwidth capacity can greatly impact the reliability of the delivered HDMI signal.

This unit is a handy device that can help pinpoint the source of potential signal problems or discover a faulty/damaged cable that needs replacement. With built-in test patterns, multiple resolution timings, and configurable error capture settings, this unit provides the user with a variety of cable testing options. TMDS, HDCP, ARC, CEC, error count, and other signal information helps to define the true capability, and limits, of your HDMI cables.

- HDCP 2.2/1.4 compliant
- Test pattern generation at selectable resolutions for onsite display testing
- Integrated EDID management
- Supports data rates up to 18Gbps (600MHz) and Deep Color up to 48-bits at 1080p
- Supports resolutions up to 4K UHD including: 3840x2160@24/25/30Hz, 3840x2160@50/60Hz (YUV 4:4:4) & 4096x2160@24/25/30Hz, 4096x2160@50/60Hz (YUV 4:4:4)
- Supports passthrough of all standard digital audio formats: LPCM 2.0/5.1/7.1, Bitstream, and HD Bitstream
- Automatic sequential switch resolution timing, test pattern, and test modes with a configurable delay timer
- A selection of different cable testing modes including "Period", "Accumulation" and "Long Term" are supported
- OSD with instant I/O resolution display
- Supports RS-232 baud rates from 110~115200bps

## HDMI 6G Audio Converter (Integrated Dolby & DTS Decoders)



CPLUS-VPE2DD

Last Gen. Model • CPLUS-VSE2DD



With support for the transmission of 6G HDMI video (resolutions up to 4K@60Hz, 4:4:4) and HDCP 2.2, this unit allows a HDMI audio signal to be de-embedded and simultaneously sent over digital and analog audio outputs providing high quality audio and video performance. The YUV 4:4:4 to 4:2:0 color subsampling conversion for 4K@50/60Hz sources and standard EDID management are also supported. This unit allows you to make the most out of your audio signal when relaying it to external speakers or to further extend the audio pathway to another location.

- Dolby Digital Decoder technology embedded
- DTS 2.0+Digital Out Decoder technology embedded
- Integrated digital interpolator filter and Digital-to-Analog Converter (DAC)
- Supports simultaneous audio output on HDMI, analog L/R, Coaxial, and Optical outputs
- Supports Dolby Digital sampling rates up to 48kHz
- Supports DTS 2.0 sampling rates up to 96kHz
- Supports LPCM input sampling rates up to 96kHz
- Supports coaxial and optical output audio sampling rates up to 96kHz
- Supports HDTV resolutions up to 4096×2160@60Hz (YUV 4:4:4)
- Supports YUV 4:4:4 to 4:2:0 color subsampling conversion for 4K@50/60Hz sources
- HDMI 1080p video with 12-bit Deep Color and 3D support
- HDCP 2.2/1.4 compliant

## HDMI 4K Audio Converter (Integrated Dolby & DTS Decoders)

CPR0-SE2DD



With support for the transmission of 3G HDMI video (resolutions up to 4K@60Hz, 4:2:0) and HDCP 1.4, this unit allows a HDMI audio signal to be de-embedded and simultaneously sent over digital and analog audio outputs providing high quality audio and video performance. This unit allows you to make the most out of your audio signal when relaying it to external speakers or to further extend the audio pathway to another location.

- Dolby Digital Decoder technology embedded
- DTS 2.0+Digital Out Decoder technology embedded
- Integrated digital interpolator filter and Digital-to-Analog Converter (DAC)
- Supports simultaneous audio output on HDMI, analog L/R, Coaxial, and Optical outputs
- Supports Dolby Digital sampling rates up to 48kHz
- Supports DTS 2.0 sampling rates up to 96kHz
- Supports LPCM input sampling rates up to 96kHz
- Supports coaxial and optical output audio sampling rates up to 96kHz
- Supports HDTV resolutions up to 4096×2160@60Hz (YUV 4:2:0)
- HDMI 1080p video with 12-bit Deep Color and 3D support
- HDCP 1.x compliant

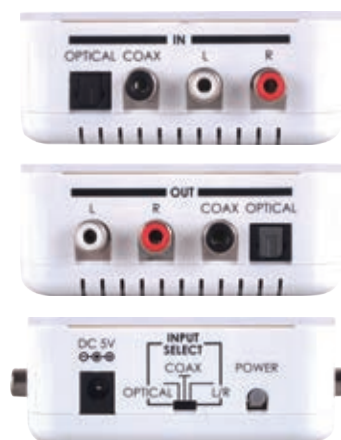
## Digital/Analog Audio Converter (Integrated Dolby & DTS Decoders)

DCT-9DD



This audio converter allows you to convert digital (Coaxial or Optical) and analog (L/R) audio signals. This unit can convert between analog audio and digital audio and vice versa, and can distribute simultaneously to all 3 outputs depending on the audio format. Additionally, the Dolby Digital Decoder and DTS 2.0+ Digital Out Decoder functions guarantee that Dolby and DTS digital audio signals are downmixed to analog stereo without loss of quality.

- Supports selection of Coaxial, Optical, and RCA (L/R) inputs
- Supports simultaneous digital and analog audio outputs
- Embedded Dolby Digital Decoder and DTS 2.0+ Digital Out Decoder for Dolby Digital and DTS Digital Surround audio signals downmixing to 2.0 channels
- Supports analog audio to digital audio signal conversion (ADC)
- Supports digital audio to analog audio signal conversion (DAC)
- Supports audio sample-rate conversion
- Coaxial and Optical digital audio (S/PDIF) supports uncompressed LPCM 2.0 channels or compressed Dolby Digital and DTS 5.1 channels
- RCA analog audio supports 2.0 channels (stereo)
- Supports input sampling rates of 32kHz, 44.1kHz, 48kHz, 88.1kHz or 96kHz
- Supports output sampling rates of 48kHz
- Supports three-way conversion: Coaxial to Optical and L/R, Optical to Coaxial and L/R, or L/R to Coaxial and Optical
- Compact and light weight design



## Coaxial Audio Converter (Integrated Dolby & DTS Decoders)

DCT-1DD



This audio converter can convert digital (Coaxial) audio signal to analog (L/R) audio signal. With support for audio sampling rates up to 192kHz (24-bit), this unit provides high quality sound conversion. It is perfect for use in computer audio systems or digital mixing consoles. Additionally, the Dolby Digital Decoder and DTS 2.0 Channel Decoder functions guarantee that Dolby and DTS digital audio signals are downmixed to analog stereo without loss of quality.

This unit can be powered from any spare USB connection allowing it to be used with USB equipped HDTVs, Blu-ray players or computers without the need for a separate power supply.

- Embedded Dolby Digital Decoder and DTS 2.0 Channel Decoder for Dolby Digital and DTS Digital Surround audio signals downmixing to 2.0 channels
- Supports digital audio to analog audio signal conversion (DAC)
- Supports audio sample-rate conversion
- Coaxial digital audio (S/PDIF) supports uncompressed LPCM 2.0 channels or compressed Dolby Digital and DTS 5.1 channels/48kHz
- RCA analog audio supports 2.0 channels (stereo)
- Supports input sampling rates of 32kHz, 44.1kHz, 48kHz, 88.1kHz or 96kHz
- Compact and light weight design



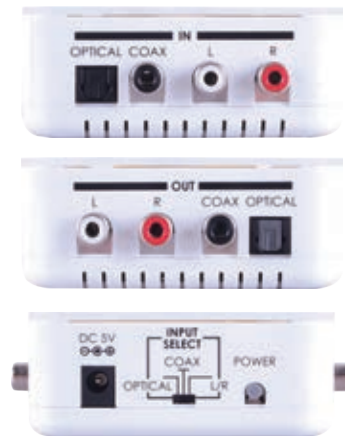
## Digital/Analog Audio Converter (Integrated Dolby Decoder)

DCT-9DN



This audio converter allows you to convert digital (Coaxial or Optical) and analog (L/R) audio signals. This unit can convert between analog audio and digital audio and vice versa, and can distribute simultaneously to all 3 outputs depending on the audio format. Additionally, the Dolby Digital Decoder function guarantees that Dolby digital audio signal is downmixed to analog stereo without loss of quality.

- Supports selection of Coaxial, Optical, and RCA (L/R) inputs
- Supports simultaneous digital and analog audio outputs
- Embedded Dolby Digital Decoder for Dolby Digital audio signal downmixing to 2.0 channels
- Supports analog audio to digital audio signal conversion (ADC)
- Supports digital audio to analog audio signal conversion (DAC)
- Supports audio sample-rate conversion
- Coaxial and Optical digital audio (S/PDIF) supports uncompressed LPCM 2.0 channels or compressed Dolby Digital 5.1 channels
- RCA analog audio supports 2.0 channels (stereo)
- Supports input sampling rates of 32kHz, 44.1kHz, 48kHz, 88.1kHz or 96kHz
- Supports output sampling rates of 48kHz
- Supports three-way conversion: Coaxial to Optical and L/R, Optical to Coaxial and L/R, or L/R to Coaxial and Optical
- Compact and light weight design



## Optical Audio Converter (Integrated Dolby Decoder)

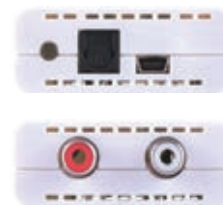
DCT-1D



This audio converter can convert digital (Optical) audio signal to analog (L/R) audio signal. With support for audio sampling rates up to 192kHz (24-bit), this unit provides high quality sound conversion. It is perfect for use in computer audio systems or digital mixing consoles. Additionally, the Dolby Digital Decoder function guarantees that Dolby digital audio signal is downmixed to analog stereo without loss of quality.

This unit can be powered from any spare USB connection allowing it to be used with USB equipped HDTVs, Blu-ray players or computers without the need for a separate power supply.

- Embedded Dolby Digital Decoder for Dolby Digital audio signal downmixing to 2.0 channels
- Supports digital audio to analog audio signal conversion (DAC)
- Supports audio sample-rate conversion
- Optical digital audio (S/PDIF) supports uncompressed LPCM 2.0 channels or compressed Dolby Digital 5.1 channels/48kHz
- RCA analog audio supports 2.0 channels (stereo)
- Supports input sampling rates of 32kHz, 44.1kHz, 48kHz, 88.1kHz or 96kHz
- Compact and light weight design



## Multi-Format to Speakers Audio Amplifier (Plus Microphone Input)

DCT-36

This audio amplifier is designed to mix the audio from the analog, digital optical or AUDIO CAT inputs with the analog microphone input and output to analog speaker in mono or stereo sound. The AUDIO CAT input allows the user to use both digital and analog audio sources at distances up to 300m away over CAT5e/6/7 using a compatible transmitter. IP (Telnet or WebGUI) and on-panel controls with LED indication allow the user easy adjustment and control over the audio settings.

- Supports digital-to-analog audio conversion (DAC)
- Supports optical input sampling rates up to 192kHz
- Supports optical, analog L/R, AUDIO-CAT and 48V/Line microphone inputs
- Supports AUDIO CAT transmitter input up to 300m over CAT5e/6/7 cable
- Supports up to 50W per channel speaker output
- Sound output up to 20dB
- Supports microphone sound up to 18dB
- Supports stereo or mono output
- Supports volume control from on-panel, Telnet or WebGUI
- Use single button for input source switching
- Supports RS-232 input control for Baud rate 115200bps
- Supports sound mixing of the microphone into the analog sound output
- Supports individual microphone input



## Multi-Format Audio Amplifier (Plus HDBaseT Connectivity)

DCT-23HD



This audio amplifier can accept audio from its 3.5mm line in, L/R RCA, optical, coaxial, HDMI, HDBaseT and Audio-CAT inputs and output the selected source to its L/R analog speaker connections as well as to the HDMI and HDBaseT outputs. Suitable for use at live musical events, in boardrooms, classrooms, or anywhere that audio amplification is needed along with video switching and extension. Audio sample rates up to 96kHz at 24-bit are supported.

This unit meets a high standard of quality for sound presentation with up to 80dB of audio amplification. It also supports HDBaseT features including the transmission/reception of high definition audio and video, 24V PoC (Power over Cable, output only), RS-232, IR and Ethernet at distances of up to 100 meters. The HDMI input and output supports resolutions up to 4K UHD, 3D, 36-bit Deep Color, HD audio and other features defined by the HDMI specification.

- Supports Digital to Analog and Analog to Digital audio Conversion (DAC/ADC)
- Supports input sample rates up to 96kHz and outputs at 48kHz
- Each speaker output channel supports 30W/4Ω
- 80dB of audio amplification
- Synchronous audio over both digital and analog outputs
- Supports HD resolutions up to 4K UHD (3840×2160@30Hz & 4096×2160@30Hz)
- HDBaseT 5Play™ convergence: High-definition audio/video, 100BaseT Ethernet, PoH (Power over HDBaseT), and control (Bidirectional IR & RS-232 passthrough)
- Supports audio/video transmission distances up to 100 meters over HDBaseT
- Control via front-panel controls, RS-232, Telnet, WebGUI and IR

## Multi-Format Audio Amplifier

DCT-23



This audio amplifier accepts analog and digital stereo audio signals via RCA, 3.5mm mini-jack, optical and coaxial digital, and HDMI with an additional microphone input. As well as speaker outputs, it boasts line level output, optical and digital outputs, and HDMI outputs for wider systems integration. Suitable for use at musical events, sound presentation and sound amplification. With output audio sampling rate support up to 48kHz and I/O data rate support up to 24-bit, it provides a high quality sound reproduction.

- 30 watts per channel Digital Stereo Amplifier
- Supports Digital to Analog audio Conversion (DAC) and Analog to Digital audio Conversion (ADC)
- HDMI audio embedding and de-embedding
- Supports input audio sampling rates up to 96kHz and output at 48kHz
- Supports HDMI audio sampling rates loop-through and video bypass output
- Supports a wide range of resolutions from 480i to 1080p and VGA to WUXGA (RB)
- Dedicated XLR microphone input with independent volume control
- Supports microphone sound being embedded into video output
- Simultaneous output of sound on both digital and analog
- Analog line output selectable to be either fixed or variable output level
- Supports control via IR (remote control and IR extender), RS-232 or IP (Telnet/WebGUI)

## Multi-Format to Speakers Audio Amplifier

DCT-23A



This audio amplifier accepts analog and digital stereo audio signals via RCA, 3.5mm mini-jack, optical and coaxial digital. As well as speaker outputs, it boasts a CAT5e/6/7 output for wider systems integration. Suitable for use at musical events, sound presentations and sound amplification. With audio sampling rate support up to 96kHz and I/O data rate supports up to 24-bit, it provides high quality sound reproduction with up to 80dB of audio amplification. The system also support control via RS-232 and IP control (Telnet/WebGUI).

- Supports digital-to-analog audio conversion (DAC) and analog-to-digital audio conversion (ADC)
- Supports input sampling rates up to 96kHz and output at 48kHz
- Supports 2 passive speaker outputs with 4 ohm to 8 ohm impedance each
- Speaker output supports 30W/4ohm per channel
- Hi-Efficient 2x50W class D amplification, with efficiency higher than 80%
- Simultaneous sound output on both digital and analog connections
- Supports distances up to 300 meters through industry standard CAT5e/6/7 cables
- 80dB of audio amplification

## Analog Stereo Audio over Single-CAT5e/6 Transmitter & Receiver

DCT-32TX



DCT-32RX



These transmitter and receiver can transfer stereo audio signals and RS-232 control simultaneously over a single run of CAT5e/6 cable up to 300m. The Audio-CAT signal generated by these units is compatible with other Audio-CAT products. The bidirectional 12V PoC (Power over Cable) feature built-into both of these units (and other compatible units) allows either unit to run without a local power supply as long as the unit on the other end has its power supply plugged in.

- Simultaneous analog stereo audio and RS-232 extension over a single CAT5e/6 cable up to 300 meters
- Works with other compatible Audio-CAT products
- Bidirectional 12V PoC (Power over Cable)
- Bidirectional RS-232 control signal extension

## Digital S/PDIF Audio over Single-CAT5e/6 Transmitter & Receiver

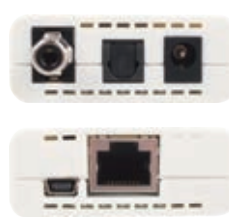
DCT-30TX



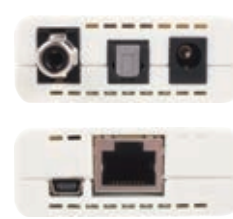
DCT-30RX



CH-304TX



CH-304RX



These transmitter and receiver can transfer S/PDIF audio signals and RS-232 control simultaneously over a single run of CAT5e/6 cable up to 300m. The Audio-CAT signal generated by these units is compatible with other Audio-CAT products. The bidirectional 12V PoC (Power over Cable) feature built-into both of these units (and other compatible units) allows either unit to run without a local power supply as long as the unit on the other end has its power supply plugged in.

- Simultaneous digital S/PDIF audio and RS-232 extension
- Supports audio sampling rates up to 192kHz
- Audio with a sampling rate of 48kHz can be extended up to 300m/984ft over a single CAT5e/6 cable, 96kHz audio up to 150m/492ft, and 192kHz audio up to 100m/328ft
- Supports LPCM 2.0 and Bitstream audio formats (passthrough)
- Works with other compatible Audio-CAT products
- Bidirectional 12V PoC (Power over Cable)
- Bidirectional RS-232 control signal extension

This transmitter and receiver set can transfer S/PDIF audio signals over a single run of CAT6 cable up to 150m. It features dual transmission over either a Coaxial cable with RCA connectors or an Optical cable with TOSLINK connectors and can be powered by either USB or power supply, allowing users flexibility of choice between power sources.

- Supports dual transmission between Coaxial and Optical
- Supports digital S/PDIF audio extension over a single run of CAT6 cable up to 150m
- Supports LPCM 2.0 and Bitstream audio formats (passthrough)
- Supports audio sampling rates of 32, 44.1, 48, 88.2 or 96 (kHz)
- Uses a single type of power supply per unit, either the DC power or USB power
- Only one of the two units needs to be powered for both to operate

# Multi-Format Audio Center (Up to 384kHz)

DCT-37



This audio center is designed to allow multiple analog and digital audio sources (5 inputs) to be switched, manipulated and then output to a wide range of analog and digital audio equipment (6 outputs) while also switching HDMI video. With HDMI video support up to 4K@60Hz (YUV 4:4:4) and an integrated audio sampling rate converter that handles rates up to 384kHz, this unit delivers unbeatable features in a compact package.

Audio input support includes LPCM 2.0 (stereo) via HDMI, USB audio 2.0, Optical, Coaxial, and 3.5mm analog line in. USB audio supports DSD (Direct Stream Digital) and DOP (DSD over PCM) decoding at high sampling rates to deliver high quality sound with a low probability of distortion. ADC and DAC functions are used as appropriate depending on the source and destination format.

For the professional, an amplified 6.3mm headphone output and XLR (low noise balanced audio) outputs offer unparalleled audio quality. A traditional pair of stereo RCA outputs with a highly accurate PLL and low jitter clock is also provided for increased flexibility. An easy-to-read OLED display with front-panel controls and an intuitive IR remote control provide a user friendly interface for the unit.

## Digital

- Coaxial, Optical, USB, and 4 HDMI inputs
- Coaxial, Optical, and HDMI outputs
- Supports Digital to Analog audio Conversion (DAC)
- Supports DSD 2.8MHz (DSD64) and DSD 5.6MHz (DSD128) formats
- HDMI audio output can either output the HDMI source's embedded audio (Bypass Mode) or insert another selected audio signal (Ext Audio Mode)
- Supports HDMI resolutions up to 4K UHD: 3840×2160@60Hz, (4:4:4, 8-bit) & 4096×2160@60Hz (4:4:4, 8-bit)
- Supports HDMI data rates up to 18Gbps and 36-bit Deep Color at resolutions up to 1080p@60Hz
- Supports sampling rates up to 384kHz/32-bit over Coaxial and Optical connectors
- Coaxial and Optical inputs support DOP (DSD over PCM) decoding
- HDMI audio embedding and de-embedding
- Supports audio sampling rate conversion, any input's audio can be converted to 44.1kHz, 48kHz, 88.2kHz, 96kHz, 176.4kHz, 192kHz or 384kHz via the DSP engine

## Analog

- Supports stereo 3.5mm line input
- Supports stereo RCA, XLR, and 6.3mm headphone outputs
- Supports Analog to Digital audio Conversion (ADC)
- XLR and RCA stereo audio output volume is fixed at line level
- Headphone output volume control via main control dial or remote control
- 6.3mm professional headphone output

## Control

- Control by front-panel button and IR remote
- Discrete power and mute buttons
- High viewing angle OLED display

# Multi-Format Audio Center (Up to 192kHz)

DCT-21



This audio center is designed to allow multiple analog and digital audio sources (6 inputs) to be switched, manipulated and then output to a wide range of analog and digital audio equipment (6 outputs) while also switching HDMI video. With HDMI video support up to 1080p@60Hz and an integrated audio sampling rate converter that handles rates up to 196kHz, this unit delivers unbeatable features in a compact package.

Audio input support includes LPCM 2.0 (stereo) via HDMI, USB audio 2.0, Optical, Coaxial, RCA, and 3.5mm analog line in. ADC and DAC functions are used as appropriate depending on the source and destination format.

For the professional, an amplified 6.3mm headphone output and XLR (low noise balanced audio) outputs offer unparalleled audio quality. A traditional pair of stereo RCA outputs with a highly accurate PLL and low jitter clock is also provided for increased flexibility. An easy-to-read OLED display with front-panel controls and an intuitive IR remote control provide a user friendly interface for the unit.

## Digital

- Coaxial, Optical, USB, and HDMI inputs
- Coaxial, Optical, and HDMI outputs
- Supports Digital to Analog audio Conversion (DAC)
- HDMI audio output can either output the HDMI source's embedded audio or insert another selected audio signal
- Supports HDMI resolutions up to 1080p@60Hz (8-bit and 12-bit)
- Supports HDMI data rates up to 10.2Gbps and 24-bit Deep Color at resolutions up to 1080p@60Hz
- Supports sampling rates up to 48kHz/24-bit over Coaxial and Optical connectors
- HDMI audio embedding and de-embedding
- Supports audio sampling rate conversion, any input's audio can be converted to 44.1kHz, 48kHz, 88.2kHz, 96kHz, 176.4kHz or 192kHz via the DSP engine

## Analog

- Supports stereo 3.5mm line and RCA inputs
- Supports stereo RCA, XLR, and 6.3mm headphone outputs
- Supports Analog to Digital audio Conversion (ADC)
- XLR and RCA stereo audio output volume is fixed at line level
- Headphone output volume control via main control dial or remote control
- 6.3mm professional headphone output

## Control

- Control by front-panel button and IR remote
- Discrete power and mute buttons
- High viewing angle OLED display

## Digital/Analog to Analog Audio Converter (Plus IP Control)

DCT-35

This audio converter allows you to switch between digital and analog audio sources and control the volume of analog audio output. The IP (Telnet & WebGUI) and on-panel controls with LED indication provide easy adjustment over the audio settings.

- Supports Digital-to-Analog audio conversion (DAC)
- Supports digital optical and analog RCA (L/R) inputs to analog RCA (L/R) output
- Supports digital sampling rates of 32kHz, 44.1kHz, 48kHz, 88.2kHz, 96kHz, 176.4kHz, 192kHz
- Single button for audio source selection
- Selects Stereo or Mono outputs
- Adjusts the volume of analog audio output
- Edits audio source labels in WebGUI



## USB to Headphones Audio Converter (Plus Line-level Audio)

DCT-24

This audio converter allows multiple audio sources to be controlled, switched, and outputted to a variety of audio equipment. With 3 audio inputs (USB, Line-level RCA and 3.5mm) and 2 audio outputs (Line-level RCA and 6.3mm), you can integrate and convert digital USB or analog stereo audio inputs to Line-level RCA and 6.3mm headphone outputs simultaneously.

- Supports USB and stereo 3.5mm line input
- Supports stereo RCA and 6.3mm headphone outputs
- Supports Digital to Analog audio Conversion (DAC)
- Supports Analog to Digital audio Conversion (ADC)
- Supports sampling rates up to 196kHz over USB connector
- RCA stereo audio output volume is fixed at line level
- Headphone output volume control via main control dial or RS-232 commands
- 6.3mm professional headphone output
- Control by front-panel buttons, IR remote, and RS-232
- Discrete power and mute buttons



## USB to Digital/Analog Audio Converter

DCT-16

This audio converter supports the transmission of high definition audio from a PC or laptop over a High Speed USB 2.0 cable. It will output digital audio via its Optical connection while convert the digital input signal into Analog Stereo via its RCA connection. The professional DAC also allows users to directly connect their headphones via its Headphone output to enjoy high definition audio. All audio signals are outputted simultaneously, allowing for greater flexibility in integrating computer audio signals into an AV installation.

- Supports sampling rates of 44.1kHz, 48kHz, 88.2kHz, 96kHz, 176.4kHz, and 192kHz
- Supports bitrates of 16-bit or 24-bit
- Supports Windows and Mac OS
- Compact and elegant design
- Powered by the USB port of the unit
- Supports simultaneous audio output of Headphone, analog Stereo (L/R) and digital Optical
- ASIO (Audio Stream Input/Output) driver support (with the supplied CD)
- USB asynchronous mode



## USB to Analog Audio Converter (Plus S/PDIF Audio)

DCT-15

The USB/Optical Audio Converter will convert a digital audio signal to analog whilst simultaneously outputting a digital audio signal. It has USB and Optical inputs and is designed to be powered by the USB connection. This optical output can also be linked to an amplifier or sound system that has an Optical S/PDIF input, whilst the analog output can be connected to a display or to an active speaker system to simultaneously output stereo audio.

- USB 2.0 compatible
- USB audio device class specification v1.0 compatible
- USB High performance 16-bit Stereo, 48/44.1kHz sampling rate for audio playback
- Optical sampling rate supports up to 192kHz/24-bit
- Low power consumption



## USB to Headphones Audio Converter



CDB-6HP

This audio converter is a simple but smart device and no external power is required. It allows you to connect your PC/laptop to a set of analog headphones or other analog audio destination devices for delivery of superior audio quality. This compact HD audio unit supports LPCM 2.0 audio with a maximum sampling rate of 384kHz and 24-bit and utilizes a direct-coupled amplifier, for better frequency response and to avoid signal loss, providing higher audio quality than is typically delivered by a standard PC/laptop's headphone output. This unit connects to your PC/laptop using any available USB 2.0 (or higher) port (Windows and Mac OSX compatible).

- Output HD audio from your PC/laptop to headphones
- Superior USB audio processor which supports up to 384kHz/24-bit sample rate
- Superior DAC engine which supports up to 384kHz for digital to analog signal conversion
- Direct-coupled amplifier for better frequency response and to avoid signal loss
- Simple operation and compact design
- No external power required



## USB to Digital Audio Converter



CDB-6

CDB-6HR



This audio converter is a simple but smart device and no external power is required. It allows you to connect your PC/laptop to an audio amplifier or other audio destination that has a S/PDIF input without needing a dedicated audio card. This compact HD audio unit supports LPCM 2.0 audio with a maximum sampling rate of 192kHz and 24-bit. This unit connects to your PC/laptop using any available USB 2.0 (or higher) port (Windows and Mac OSX compatible).

- Output HD audio from your PC/laptop to an audio amplifier
- Superior USB audio processor (XMOS U8A) which supports up to 192kHz/24-bit sample rate
- Superior optical module supporting up to 192kHz audio
- Simple operation and compact design
- No external power required



This audio converter is a simple but smart device and no external power is required. It allows you to connect your PC/laptop to an audio amplifier or other audio destination that has a Coaxial input without needing a dedicated audio card. This compact HD audio unit supports LPCM 2.0 audio with a maximum sampling rate of 384kHz and 24-bit. This unit connects to your PC/laptop using any available USB 2.0 (or higher) port (Windows and Mac OSX compatible).

- Output HD audio from your PC/laptop to an audio amplifier
- Superior USB audio processor (XMOS U8A) which supports up to 384kHz/24-bit sample rate
- Superior Coaxial module supporting up to 384kHz audio
- Simple operation and compact design
- No external power required

## Two-Way Digital Audio Converter

DCT-39

This audio converter is designed to convert an optical or coaxial LPCM audio source to different sampling rates (up to 192kHz/24-bit). This unit utilizes DSP engine instead of software process to prevent distortion. The converted audio source signal can be simultaneously output in both optical and coaxial digital audio which can be connected to an amplifier for high quality audio output.

Additionally, this audio converter supports DSD over PCM (DOP) decoding to PCM in order to further process the audio signal not only for sampling rate conversion but also controlling the volume and the de-pop function, helps to reduce unwanted noise when plugging in an audio source.

- Supports coaxial and optical digital audio inputs
- Supports simultaneous coaxial and optical digital audio outputs
- Supports DSD stream audio passthrough
- Supports LPCM input sampling rates up to 192kHz
- Supports conversion of the sampling rate of the audio input up to a maximum sampling rate of 192kHz/24-bit
- Supports de-pop function to eliminate unwanted “popping” noises on plug in of audio source
- Supports DSD over PCM (DOP) decoding to PCM of coaxial and optical audio source
- Supports volume control, the minimum volume control can be reduced to -60dB
- Supports firmware update via micro USB
- Compact and light weight design



## Two-Way Digital Audio Converter

DCT-2

This converter can convert between Coaxial and Optical digital audio formats. This compact and convenient unit accepts a stereo or surround (up to 5.1 channels) audio signal through either Coaxial cable or Optical cable, and passes the unchanged signal to both its Coaxial and Optical output ports. With its built-in signal enhancement feature, the unit also serves as a repeater of digital audio signals to extend up to double the transmission distance.

- Supports two-way conversion: coaxial to optical or optical to coaxial
- Supports input audio signals from 2 channels to up to 5.1 channels, output signal follows input
- Supports signal enhancement of S/PDIF audio and extends the transmission distance, through coaxial and/or optical cables
- Select one input from coaxial or optical input ports, and send the S/PDIF audio signal to both coaxial and optical output ports simultaneously
- Compact and easy to use

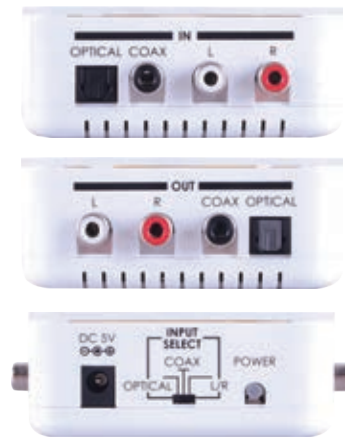


## Three-Way Digital/Analog Audio Converter

DCT-9

This audio converter allows you to convert digital (Coaxial or Optical) and analog (L/R) audio signals. This unit can convert between analog audio and digital audio and vice versa, and can distribute simultaneously to all 3 outputs depending on the audio format.

- Supports selection of Coaxial, Optical, and RCA (L/R) inputs
- Supports simultaneous digital and analog audio outputs
- Supports analog audio to digital audio signal conversion (ADC)
- Supports digital audio to analog audio signal conversion (DAC)
- Supports audio sample-rate conversion
- Coaxial and Optical digital audio (S/PDIF) supports uncompressed LPCM 2.0 channels or compressed Bitstream 5.1 channels
- RCA analog audio supports 2.0 channels (stereo)
- Supports input sampling rates of 32kHz, 44.1kHz, 48kHz or 96kHz
- Supports output sampling rates of 48kHz
- Supports three-way conversion: Coaxial to Optical and L/R, Optical to Coaxial and L/R, or L/R to Coaxial and Optical
- Compact and light weight design



## Digital to Analog Audio Converter

DCT-40



This audio converter is designed to accept an optical or coaxial 2.0 LPCM audio source and convert it to analog stereo audio for output with volume control. In addition, the audio processor supports decoding DSD over PCM (DoP) sources as well. This product is ideal for archival or legacy audio equipment support applications. The maximum acceptable audio sampling rate for sources is 192kHz/24bits. Output volume can be adjusted from 0dB to -50dB. This digital to analog audio converter utilizes a DSP engine rather than software to prevent audio distortion during the conversion and additional effort has been made to reduce the chance of pops or noise when plugging in new audio sources.

- Optical and coaxial digital stereo audio inputs
- Converts digital stereo audio to analog stereo audio
- Automatic audio sampling rate detection supporting a maximum sampling rate up to 192kHz
- Automatic PCM/DoP audio format detection
- Analog stereo L/R output up to 2Vrms for connection to powered speakers, amplifiers or for use in audio broadcasting
- Supports manual volume adjustments from 0 dB to -50dB in 1dB increments
- Contains a “de-pop” function to eliminate the pop noise often heard when plugging in audio sources
- Integrated DSP engine to prevent audio distortion during the digital to analog audio conversion process
- Supports DoP decoding from optical and coaxial audio sources
- Compact and lightweight design



## Digital to Analog Audio Converter

### DCT-3A



This audio converter is an easy to use product that converts Coaxial or Optical audio signals into analog Stereo (L/R) audio. It can be easily switched between either Coaxial or Optical inputs. With its compact, elegant design and simple LED input status make it easier for users to connect up and use instantly.

- Supports digital audio input (Coaxial/Optical) and stereo analog audio output (L/R)
- Integrated digital interpolator filter and Digital to Analog Converter (DAC)
- Supports uncompressed digital stereo audio input
- Supports S/PDIF 192kHz at 24-bit data for conversion to left and right analog channels
- Compact size and easy to install

### DCT-3HP

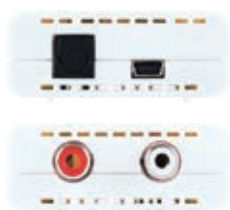


This audio converter is an easy to use device that converts and amplifies (200 mW Cap-Less) Coaxial or Optical digital audio into analog headphone audio. This device can switch between Coaxial or Optical sources and also has a convenient volume control.

- Supports up to 192 K/24-bit digital audio input (Coaxial/Optical)
- Supports 2 channel PCM from Coaxial/Optical input
- Built-in 200 mW Cap-Less Headphone amp
- Compact size and easy to install

## Optical to Analog Audio Converter

### DCT-1



This audio converter can convert digital (Optical) audio signal to analog (L/R) audio signal. With support for audio sampling rates up to 192kHz (24-bit), this unit provides high quality sound conversion. It is perfect for use in computer audio systems or digital mixing consoles.

This unit can be powered from any spare USB connection allowing it to be used with USB equipped HDTVs, Blu-ray players or computers without the need for a separate power supply.

- Supports digital audio to analog audio signal conversion (DAC)
- Supports audio sample-rate conversion
- Coaxial digital audio (S/PDIF) supports uncompressed LPCM 2.0 channels
- RCA analog audio supports 2.0 channels (stereo)
- Supports input sampling rates of 32kHz, 44.1kHz, 48kHz, 88.2kHz, 96kHz, 176.4kHz or 196kHz
- Compact and light weight design

## HDMI ARC Audio Converter

### DCT-25



This audio converter is designed to extract the audio signal from an HDTV's HDMI ARC (Audio Return Channel) connection and convert it to an analog stereo signal, allowing the connection of an HDTV with HDMI-only output to non-HDMI equipped amplifiers, AV receivers or active speakers. It supports HDMI audio sampling rates up to 192kHz and analog stereo (2.0CH) audio output.

- Supports Digital to Analog audio Conversion (DAC)
- Extracts the HDMI audio signal from a HDTV's ARC connection and converts it to a line level analog stereo output
- Supports HDMI audio sampling rates up to 192kHz
- Simultaneous audio from the TV speakers and Line Level output
- Supports volume control from the TV's remote control via CEC function
- Plug and play with no software required

## Analog to Digital Audio Converter

DCT-4



This audio converter is designed to convert analog stereo audio to Coaxial and TOSLINK Optical digital outputs. The digital output is 2 channels uncompressed LPCM with a sampling rate of 48kHz. Both Optical and Coaxial cables connected to the output ports of the unit can run up to 5 meters while still providing a reliable and lossless audio signal transmission. The unit is both compact and easy to install, which makes it a very handy device, perfect for converting audio signals in the home or workplace.

- Supports uncompressed output of 2 channels LPCM digital audio signals
- Supports an output sampling rate of 48kHz
- Provides electromagnetic-noise-free transmission
- Easy to install and operate

DCT-4T



This audio converter is designed to simultaneously convert analog audio signals to Coaxial S/PDIF and TOSLINK Optical with the added benefit of a switchable audio delay of 150 milliseconds. The digital audio output signal is 2-channel uncompressed LPCM (Linear Pulse Code Modulation) with a sampling rate of 48kHz. The unit supports Optical Fiber and Coaxial cable runs of up to 5 meters from the device while still providing a reliable and lossless audio signal. Compact and easy to install, making it incredibly versatile for the home or office use. The unit is the logical choice for Analog to Digital audio conversion.

- Switchable audio delay function provides a 150 millisecond delay when outputting audio
- Supports uncompressed 2-channel LPCM (Linear Pulse Code Modulation) digital audio output
- Supports an output sampling rate of 48kHz
- Provides electromagnetic noise-free transmission
- Easy installation and operation

## 8×20 Digital Audio Switching Splitter



DCT-31

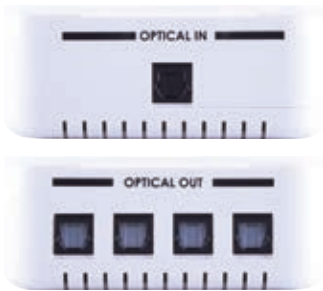


This audio splitter enables 4 coaxial and 4 optical audio inputs to be switched between for distribution to up to 10 coaxial and 10 optical outputs respectively (optical to optical and coaxial to coaxial). Digital LPCM 2.0 sources with sampling rates up to 192kHz and standard Bitstream sources up to 5.1 channels are supported. This simple, and easy to operate, device can assist you with your audio expansion and distribution needs.

- 4 Coaxial and 4 Optical inputs
- 10 Coaxial and 10 Optical outputs
- Supports LPCM 2.0 digital audio with sampling rates up to 192kHz and standard Bitstream formats up to 5.1 channels
- Control via front-panel buttons, IR remote or RS-232
- Low power consumption

## 1×4 Optical Audio Splitter

DCT-28

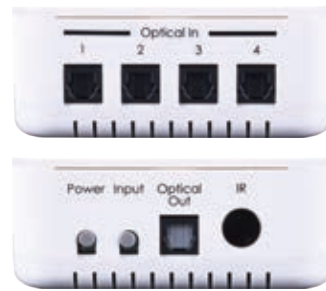


This audio splitter can split and distribute a single optical digital audio input to up to four simultaneous optical digital outputs, allowing users to share one optical source to up to four optical sound systems. A simple and easy to use tool for distributing a single optical signal to multiple areas or devices.

- Supports one optical input and four optical outputs
- Supports LPCM 2.0 audio signal and sampling rates from 32kHz to 192kHz
- Supports standard Bitstream (S/PDIF) audio signals bypass and sampling rates from 32kHz to 192kHz
- Up to 24-bit resolution
- Low power consumption

## 4×1 Optical Audio Switcher

DCT-17



This audio switcher has four optical inputs and one optical output and allows users with multiple optical sources to switch between sources without delay. The device has a built-in last memory function and IR remote control which provides a more user-friendly experience.

- Supports four optical input and one optical outputs
- Supports LPCM 2.0 audio signal and sampling rates from 32kHz to 192kHz
- Supports standard Bitstream (S/PDIF) audio signals bypass and sampling rates from 32kHz to 192kHz
- Up to 24-bit resolution
- Control via IR remote
- Low power consumption

## 1×2 Optical Audio Splitter

DT-12



This audio splitter can split a single optical digital input to two outputs to lengths of up to 5m, using TOSLINK optical cables, reliably and without loss of quality. It is designed to be compact, easy to install and use making it ideal for home or professional audio distribution.

- Supports the S/PDIF standard of digital audio transmission
- Supports uncompressed 2-channel LPCM (Linear Pulse Code Modulation) audio signal
- Supports compressed 2-channel and multi-channel standard Bitstream formats
- Provides electromagnetic-noise-free transmission
- Easy to install and to operate

## 2×1 Optical Audio Switcher

DT-21



This audio switcher can switch two optical digital inputs to a single optical digital output to lengths of up to 5m, using TOSLINK optical cables, reliably and without loss of quality. It is designed to be compact, easy to install and use, making it ideal for home or professional audio distribution.

- Supports the S/PDIF standard of digital audio transmission
- Supports uncompressed 2-channel LPCM (Linear Pulse Code Modulation) audio signal
- Supports compressed 2-channel and multi-channel standard Bitstream formats
- Provides electromagnetic-noise-free transmission
- Easy to install and to operate

## HDMI 6G Audio Inserter



CPLUS-V11PI

Last Gen. Model • CPLUS-V11SI

**HDMI**  
HIGH-DEFINITION MULTIMEDIA INTERFACE

This HDMI Audio Inserter is designed to insert an external audio signal into your HDMI or DVI (with HDMI to DVI adaptor) signal path. The unit allows you to insert stereo or multi-channel surround sound audio, and is capable of selecting audio formats while extending your HDMI signal. Both the input and output HDMI support UHD resolutions up to 4K@60Hz (YUV 4:4:4), and are capable of providing high quality audio and video performance. It supports bypass of high resolution digital audio formats, and supports audio sampling rates up to 192kHz, allowing fully synchronized video and audio.

- HDMI bandwidth support up to 18Gbps/600MHz
- DVI 1.0 compatible and HDCP 2.2/1.4 compliant
- Supports external HDMI, Digital or Analog audio signal embedded into the HDMI output
- Supports HDMI audio sampling rate up to 192kHz
- Supports Optical (S/PDIF) audio sampling rate up to 192kHz
- HDMI signal supports High Bit Rate (HBR) audio
- Supports HDTV resolutions up to 4K: 3840x2160@24/25/30Hz, 4096x2160@24/25/30Hz, 3840x2160@50/60Hz (YUV 4:4:4) & 4096x2160@50/60Hz (YUV 4:4:4)
- Supports CEC bypass



## HDMI 4K Audio Inserter

CPR0-11SI

Last Gen. Model • CLUX-11CA

**HDMI**  
HIGH-DEFINITION MULTIMEDIA INTERFACE

The HDMI Audio Inserter allows an external audio signal to be inserted into your HDMI or DVI (with an HDMI to DVI adaptor) signal path. The unit allows you to insert analog stereo or multi-channel surround sound (via the digital optical input) giving you the flexibility to add your choice of audio to the video while extending your HDMI signal. It also has the added benefit of 4K and 3D support, allowing full resolution video and eliminating the need to downscale the image.

- DVI 1.0 compatible and HDCP 1.x compliant
- Supports HDMI audio sampling rates up to 192kHz
- Supports Optical (S/PDIF) digital audio sampling rates up to 192kHz
- Supports selection of original HDMI audio or embedding of external Digital or Analog audio into HDMI signal pathway
- HDMI supports high-bit-rate (HBR) audio
- Supports up to 4K@30Hz resolution and 3D signals passthrough
- Supports maximum input and output HDMI cable lengths of up to 15 meters each at 1080p/8-bit resolution or 10 meters each at 1080p/12-bit or 4K resolution



## HDMI 6G Audio Extractor



CPLUS-V11PE2

Last Gen. Model • CPLUS-V11SE2

**HDMI**  
HIGH-DEFINITION MULTIMEDIA INTERFACE

This HDMI Audio Extractor is designed to extract 2-channel audio signal from an HDMI source. The unit allows you to extract the original HDMI audio signal and convert it to digital optical or analog multi-channel audio. Both the HDMI input and output support UHD resolutions up to 4K@60Hz (YUV 4:4:4), and are capable of providing high quality audio and video performance. It supports bypass of high resolution digital audio formats, and supports audio sampling rates up to 192kHz, allowing fully synchronized video and audio.



- HDMI bandwidth support up to 18Gbps/600MHz
- DVI 1.0 compatible and HDCP 2.2/1.4 compliant
- Supports extracting the HDMI audio and outputting to a 2-channel digital or analog audio signal
- Supports analog 2-channel and Optical S/PDIF audio outputs
- Supports HDMI audio sampling rates up to 192kHz
- Supports Optical (S/PDIF) audio sampling rate up to 192kHz
- HDMI signal supports High Bit Rate (HBR) audio
- Supports HDTV resolutions up to 4K: 3840×2160@24/25/30Hz, 3840×2160@50/60Hz (YUV 4:4:4) & 4096×2160@24/25/30Hz, 4096×2160@50/60Hz (YUV 4:4:4)
- Supports CEC bypass

## HDMI 4K Audio Extractor

CPR0-11SE2

Last Gen. Model • CLUX-11CD

**HDMI**  
HIGH-DEFINITION MULTIMEDIA INTERFACE

The HDMI Audio Extractor allows you to de-embed the audio signal from a HDMI source and output it. With this Audio Extractor you can take your original HDMI audio signal and convert it to digital optical or analog stereo audio, allowing you to output your audio signal to an external audio system or to extend your audio signal pathway. It also has the added benefit of 4K UHD and 3D support, allowing full resolution video and eliminating the need to downscale the image.



- DVI 1.0 compatible and HDCP 1.x compliant
- Supports HDMI audio sampling rates up to 192kHz
- Supports Optical (S/PDIF) digital audio sampling rates up to 192kHz
- HDMI supports high-bit-rate (HBR) audio
- No HDMI output connection is required for analog or optical audio output
- Supports analog stereo (L/R) and digital optical audio (S/PDIF) outputs
- Supports built-in audio EDID switching between LPCM 2.0, TV (external) EDID or Bitstream audio
- Supports up to 4K@30Hz resolution and 3D signals passthrough
- Supports maximum input and output HDMI cable lengths of up to 15 meters each at 1080p/8-bit resolution or 10 meters each at 1080p/12-bit or 4K resolution

# HDMI 6G Audio Extractor

CPLUS-V11PE8

Last Gen. Model • CPLUS-V11SE8



**HDMI**  
HIGH-DEFINITION MULTIMEDIA INTERFACE



This HDMI Audio Extractor is designed to extract multi-channel audio signal from an HDMI source. The unit allows you to extract the original HDMI audio signal and convert it to digital optical or analog multi-channel audio. Both the HDMI input and output support UHD resolutions up to 4K@60Hz (YUV 4:4:4), and are capable of providing high quality audio and video performance. It supports bypass of high resolution digital audio formats, and supports audio sampling rates up to 192kHz, allowing fully synchronized video and audio.

- HDMI bandwidth support up to 18Gbps/600MHz
- DVI 1.0 compatible and HDCP 2.2/1.4 compliant
- Supports extracting the HDMI audio and outputting to a multi-channel digital or analog audio signal
- Supports analog multi-channel and Optical S/PDIF audio outputs
- Supports HDMI audio sampling rates up to 192kHz
- Supports Optical (S/PDIF) audio sampling rate up to 192kHz
- HDMI signal supports High Bit Rate (HBR) audio
- Supports HDTV resolutions up to 4K: 3840×2160@24/25/30Hz, 3840×2160@50/60Hz (YUV 4:4:4) & 4096×2160@24/25/30Hz, 4096×2160@50/60Hz (YUV 4:4:4)
- Supports CEC bypass

# HDMI 4K Audio Extractor

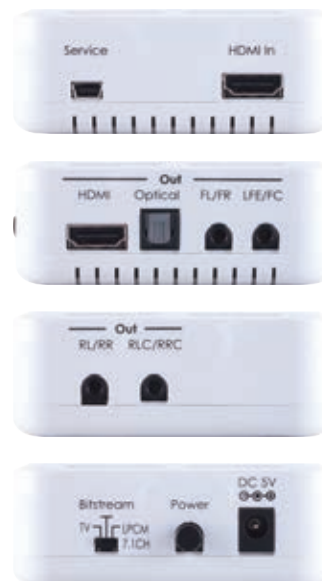
CPR0-11SE8

Last Gen. Model • CLUX-11SA

**HDMI**  
HIGH-DEFINITION MULTIMEDIA INTERFACE

The HDMI Audio Extractor allows you to de-embed the audio signal from a HDMI source and output it. With this Audio Extractor you can take your original HDMI audio signal and convert it to digital optical or multi-channel audio, allowing you to output your audio signal to an external multichannel audio system or to extend your audio signal pathway. It also has the added benefit of 4K UHD and 3D support, allowing full resolution video and eliminating the need to downscale the image.

- DVI 1.0 compatible and HDCP 1.x compliant
- Supports HDMI audio sampling rates up to 192kHz
- Supports Optical (S/PDIF) digital audio sampling rates up to 192kHz
- HDMI supports high-bit-rate (HBR) audio
- No HDMI output connection is required for analog or optical audio output
- Supports analog multi-channel and digital optical audio (S/PDIF) outputs
- Supports built-in audio EDID switching between LPCM 7.1, TV (external) EDID or Bitstream audio
- Supports up to 4K@30Hz resolution and 3D signals passthrough
- Supports maximum input and output HDMI cable lengths of up to 15 meters each at 1080p/8-bit resolution or 10 meters each at 1080p/12-bit or 4K resolution



## HDMI Audio Bridge

CLUX-11HB



**HDMI**  
HIGH-DEFINITION MULTIMEDIA INTERFACE

This unit is designed to convert analog or digital audio signals into an HDMI output, allowing easy integration of audio only sources with HDMI distribution systems. This device adds a "blue-screen" video feed with a simple on-screen display (OSD) that shows the current audio input so that any HDMI AV Receiver, display or matrix will accept the audio signal. It supports digital audio sampling rates up to 192kHz and stereo analog audio sampling rates up to 48kHz.

- Supports Analog to Digital audio Conversion (ADC)
- Supports Optical audio sampling rate 32kHz to 192kHz and LPCM 2.0
- Supports analog (L/R) audio sampling rate of 48kHz
- Plug and play, with no software required

## Lip Sync Corrector

DCT-18N



This unit is a compact device that can correct audio delays between audio and video. When distributing video over long distances through multiple devices like distribution amplifiers and set-top boxes there can sometimes be a noticeable delay which results in audio being played before the video. This device allows you to manually adjust the audio delay from 0~300ms allowing you to perfectly synchronize your audio and video, eliminating any mismatch.

- Analog to analog signal bypass
- 8 different sectors adjustment on audio delay time
- Low power consumption

## Digital Volume Leveller

DCT-8S



**HDMI**  
HIGH-DEFINITION MULTIMEDIA INTERFACE

This unit is an advanced HDMI to HDMI audio repeater and decoder that incorporates SRS TruVolume™ technology. This device, which prevents annoying fluctuations during commercials or bursting sounds from action scenes always maintains a perfect volume level. The DCT-8S SRS TruVolume Leveler is the best choice for maintaining a perfect volume level.

- HDMI with Deep Color support
- DVI 1.0 compatible and HDCP 1.x compliant
- Supports HD input/output up to 1080p(24/60)Hz
- Has a repeater function with HDMI signal amplification and equalization
- Supports 2 channel HDMI audio input to HDMI output
- Integrated HDCP encryption for transmitting protected audio and video content
- Supports CEC bypass
- Dynamically boosts low/high frequencies

## Analog Volume Leveller

DCT-6S

Family Model • DCT-11S

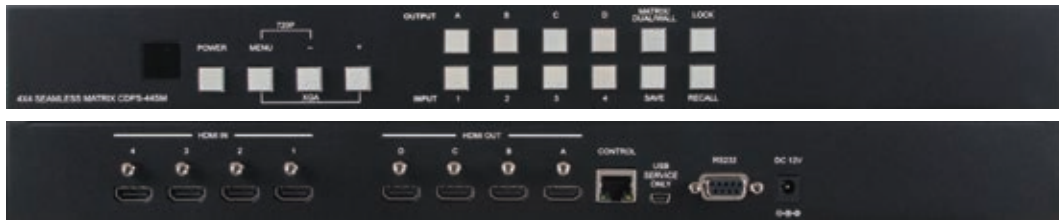


This unit incorporating SRS TruVolume technology regulates TV channel volume to your preferred listening level and prevents annoying fluctuations that occur when channel surfing as well as taming those obnoxious commercials. It also lets you hear everything you've been missing by giving you a crystal clear audio experience!

- Simple installation process (Stereo analog in/out, Power)
- Supports Line Level inputs up to 2Vrms and Line Level outputs up to 1Vrms, via stereo RCA jacks
- Regulates TV/Satellite/Radio broadcast volume levels, so you don't have to constantly adjust them when changing channels
- Boosts low and high-frequency content (20-bands/ch), using an advanced psychoacoustic modeling engine making the entire listening experience come alive, regardless of the audio level

## 4×4 HDMI Matrix (Integrated Seamless Switching)

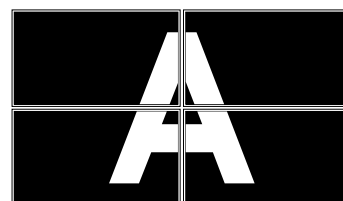
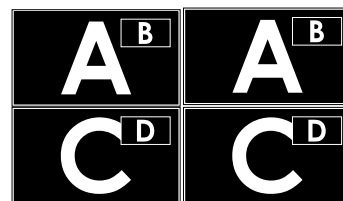
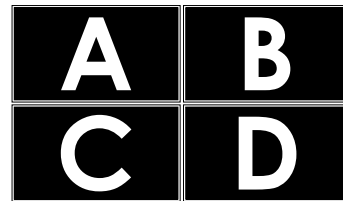
CDPS-44SM



This matrix allows the signal from up to 4 HDMI sources to be freely selected and output on up to 4 HDMI displays in a variety of configurations. The unit provides five distinct output modes (Matrix, Dual PoP, TV Wall, Dual PiP, and Quad) for use in various applications. Matrix mode functions as a seamless 4×4 full-screen video matrix. The two Dual modes allow the display of 2 discrete pairs of 2 selected sources using either a PiP (Picture-in-Picture) or PoP (Picture-outside-Picture) method across duplicated outputs. The TV Wall mode displays a single source across 4 displays making a 2×2 video wall with adjustable bezel correction. Finally, the Quad mode displays all 4 sources in a quad-split arrangement on a single output, ideal for video monitoring.

The unit supports HD video timings up to 1080p@60Hz and PC timings up to WUXGA@60Hz (RB) with Deep Color support up to 12-bit. Audio bypass support includes standard Bitstream formats and LPCM formats up to 7.1 channels at 192kHz. Operation and control of the unit can be easily achieved via front-panel buttons with OSD, Telnet, WebGUI, RS-232 or IR remote.

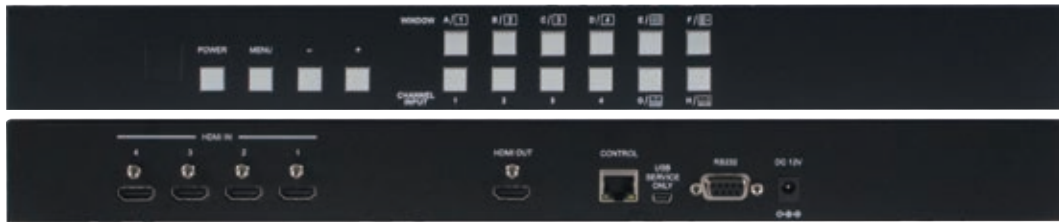
- DVI 1.0 compatible and HDCP 1.x compliant
- Supports input resolutions up to 1080p@60Hz and WUXGA@60Hz (RB)
- Supports output resolutions from 480p to 1080p
- Deep Color support up to 12-bit
- Supports five different modes: Matrix mode, Dual (PiP/PoP) modes, Quad mode, and TV Wall mode
  - Matrix mode: Can routes and output any 4 source to any 4 displays with seamless switching (Note: When the output timing is 1080i@50/60Hz, input 4 will be disabled. The OSD will display "IN 4 Disabled" in this case.)
  - Dual (PiP/PoP) modes: Displays 2 discrete pairs of 2 selected sources using either PiP (Picture-in-Picture) or PoP (Picture-outside-Picture) methods across duplicated outputs (Dual A and Dual B)
  - Quad mode: Displays all 4 sources in a quad-split arrangement on a single output
  - TV Wall mode: Displays a single source across 4 displays making a 2×2 video wall with adjustable bezel correction
- Audio bypass support includes standard Bitstream formats and LPCM formats up to 7.1 channels at 192kHz
- Control via front-panel buttons with OSD, Telnet, WebGUI, RS-232 or IR remote



## 4×1 HDMI Switcher (Integrated Seamless Switching)

CDPS-41SQN

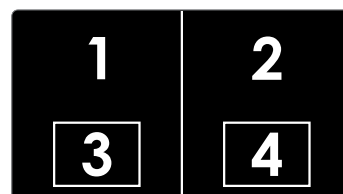
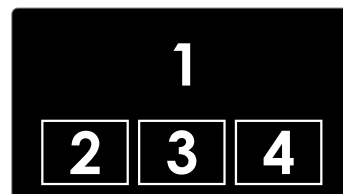
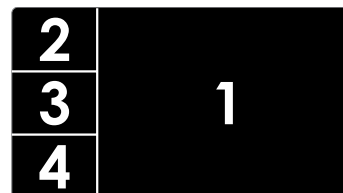
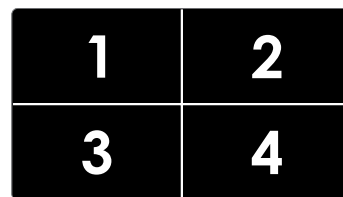
Last Gen. Model • CDPS-41SQ



This switcher is a high performance, low latency, multi-windowing system that can be easily configured for a variety of professional video processing tasks. Up to 4 different input sources may be freely selected and arranged and output to a single display. When switched into single window mode the unit can be a seamless switcher with cross-fade support, or two sources can be combined with the use of chroma keying. 90-degree rotation is also supported when outputting a single full screen window.

Additionally, this unit supports the option of uploading a graphic logo for display over the top of the output video. Video resolutions up to 1080p@60Hz and PC resolutions up to WUXGA@60Hz (RB) are supported along with audio up to 192kHz, 7.1 channel, LPCM for both inputs and output. The unit can be controlled in a wide variety of ways, including via front panel buttons with OSD menu, WebGUI, Telnet, RS-232, and IR remote.

- Seamless switching between sources and windows
- Enlarge or shrink up to 4 input windows
- Supports PiP, PoP, and multi-window display
- Easy individual window size and position and layer priority adjustment
- Control via front panel with OSD menu, WebGUI, Telnet, RS-232, and IR remote
- Crossfade, chroma key, mirror and rotation (90° left/right and 180°) functions
- 8 hot keys dedicated to window and source selection, 4 customizable window layout hot keys, and 4 software-only hot keys for additional stored window layout configurations
- Supports the uploading of a user customizable graphic for display over the top of video output



# 4×2 SDI to HDMI Switcher (Integrated Seamless Switching)

CDPS-4S2HSS

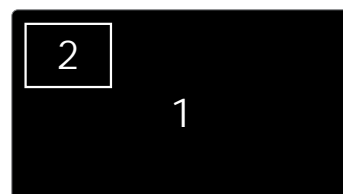
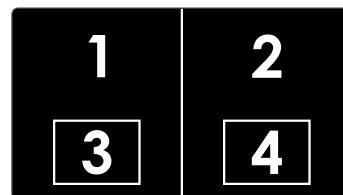
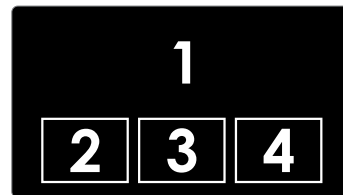
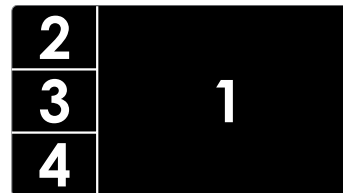
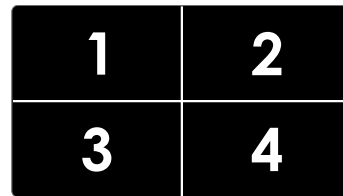
**HDMI**  
HIGH-DEFINITION MULTIMEDIA INTERFACE



This switcher is a high performance, high speed, zooming/shrinking/scaling system that can be easily configured as a quad-split or picture-in-picture video processor. The unit can function as a 4 input seamless switch, or all 4 SDI sources can be displayed simultaneously in 4 freely sized and positioned windows and output as an HDMI signal to the two duplicated outputs. When the source is output full screen, rotation, mirror or chroma key functions are also available.

The unit supports up to 3G-SDI on all 4 inputs and HDMI output timings up to 1080p@60Hz and WUXGA@60Hz (RB). Audio bypass supports up to 8 channels at 48kHz. Operation and control of the unit can be easily achieved via front-panel buttons with OSD, Telnet, WebGUI, RS-232 or IR remote.

- DVI 1.0 compatible
- Supports HDMI output resolutions up to 1080p@60Hz and WUXGA@60Hz (RB)
- Supports SD-SDI (SMPTE 259M-C) at bitrates up to 270Mbps and cable distances up to 250 meters
- Supports HD-SDI (SMPTE 292M) at bitrates up to 1.485Gbps & 1.485/1.001Gbps and cable distances up to 200 meters
- Supports 3G-SDI (SMPTE 424M/425M-A) at bitrates up to 2.970Gbps & 2.970/1.001Gbps and cable distances up to 100 meters
- HDMI output is compatible with DVI displays with the use of an HDMI to DVI adapter
- Combines four windowed SDI inputs into a single HDMI signal that is displayed on duplicated outputs
- Seamless switching between inputs
- Zoom and shrink up to 4 independent windows
- Crossfade, Chroma key, Mirror and Rotation (90° increments) functionality
- 8 built-in screen layout hot keys and additional 4 customizable layouts
- Control via front-panel buttons with OSD, Telnet, WebGUI, RS-232 or IR remote



## 1×4 HDMI 4K Video Wall Splitter

CDPS-4KQ



This video wall splitter allows an HDMI 4K UHD input source to be freely arranged on 4 displays (TV or monitor) with bezel correction function. Friendly control application that leads and leave the TV Wall control system never been easier. The unit supports video output timings up to WUXGA@60Hz (RB) and 1080p@60Hz, audio format up to 7.1CH LPCM at 192kHz sampling rate based on input source EDID. All the operation and control can be done through Telnet and RS-232.

- DVI 1.0 compatible and HDCP 1.x compliant
- Output source signal to 4 displays as a full image with adjustable Bezel Correction
- Input PC resolutions support from VGA to WUXGA (RB) and HDTV resolutions support from 480i to 4K (24/25/30Hz)
- Supports different input resolutions and output resolutions selectable from TV wall application
- Supports passthrough of all standard digital audio formats: LPCM 2.0/5.1/7.1, Bitstream, and HD Bitstream
- Supports RS-232 and Telnet controls

## 1×4 HDMI 1080p Video Wall Splitter

CDPS-14TW



This video wall splitter allows a single HDMI input source to be shown as a single image spanned across multiple displays (TVs or monitors) and can be cascaded to multiple Video Wall units to expand the image across as many displays as needed with the added benefit of Bezel Correction function for optimum picture alignment. The easy-to-use PC application gives the user complete control over the setup and control of single or multiple units either via direct or IP connection. All operation and control can also be done through Telnet and RS-232 commands. The unit supports resolutions up to WUXGA@60Hz (RB) and 1080p@60Hz, audio formats up to 7.1CH LPCM at 192kHz sampling rate based on the source devices resolution capabilities.

- DVI 1.0 compatible and HDCP 1.x compliant
- Outputs and splits the HDMI source signal spanned across 4 displays (2×2 video wall) as a single image with adjustable Bezel Correction
- Cascade/Bypass the HDMI signal up to as many displays as required by utilizing additional video wall splitter units
- One button push to control all connected video wall splitter units
- Input resolution support: VGA~WUXGA (RB) and 480i~1080p
- Output resolution support: 720p~1080p
- Supports different input and output resolutions selectable from the PC application menu or via Telnet/RS-232 commands
- Supports passthrough of all standard digital audio formats: LPCM 2.0/5.1/7.1, Bitstream, and HD Bitstream
- Supports direct or IP control via PC application or RS-232 and Telnet commands

## 60" LED Display

CVW-60S

<b>Panel Size</b>	60"
<b>Native Resolution</b>	1366×768
<b>Response Time</b>	6ms
<b>Brightness</b>	700cd/m2
<b>Contrast Ratio</b>	2400:1
<b>Dynamic Contrast Ratio</b>	10000:1
<b>Viewing Angle</b>	176°/176°
<b>Inputs</b>	2×HDMI IN, 1×SDI IN, 1×VGA IN
<b>Outputs</b>	1×RS-232 IN, 1×RS-232 OUT, 1×IR IN
<b>TV Resolution</b>	480i~1080p
<b>PC Resolution</b>	VGA~SXGA
<b>Bezel Area</b>	4.1mm (left/to)+2.4mm (right/bottom)
<b>Power Supply</b>	100~240V/5A AC, 50~60Hz
<b>Power Consumption</b>	Up to 480W

## 42" LED Display

CVW-42AK2

<b>Panel Size</b>	42"
<b>Native Resolution</b>	1920×1080
<b>Response Time</b>	12ms
<b>Brightness</b>	450cd/m2
<b>Contrast Ratio</b>	1300:1
<b>Dynamic Contrast Ratio</b>	10000:1
<b>Viewing Angle</b>	178°/178°
<b>Inputs</b>	1×HDMI IN, 1×VGA IN
<b>Outputs</b>	1×RS-232 IN, 1×RS-232 OUT, 1×IR IN
<b>TV Resolution</b>	480i~1080p
<b>PC Resolution</b>	VGA~SXGA
<b>Bezel Area</b>	13mm (left/to)+13mm (right/bottom)
<b>Power Supply</b>	100~240V/5A AC, 50~60Hz
<b>Power Consumption</b>	Up to 135W

## 47" LCD Display

CVW-47LG2

<b>Panel Size</b>	47"
<b>Native Resolution</b>	1920×1080
<b>Response Time</b>	9ms
<b>Brightness</b>	700cd/m2
<b>Contrast Ratio</b>	1200:1
<b>Dynamic Contrast Ratio</b>	10000:1
<b>Viewing Angle</b>	178°/178°
<b>Inputs</b>	1×HDMI IN, 1×VGA IN
<b>Outputs</b>	1×RS-232 IN, 1×RS-232 OUT, 1×IR IN
<b>TV Resolution</b>	480i~1080p
<b>PC Resolution</b>	VGA~SXGA
<b>Bezel Area</b>	10mm (left/to)+10mm (right/bottom)
<b>Power Supply</b>	100~240V/5A AC, 50~60Hz
<b>Power Consumption</b>	Up to 1750W

## 42" LCD Display

CVM-42AU2

<b>Panel Size</b>	42"
<b>Native Resolution</b>	1920×1080
<b>Response Time</b>	6.5ms
<b>Brightness</b>	400cd/m2
<b>Contrast Ratio</b>	4000:1
<b>Dynamic Contrast Ratio</b>	10000:1
<b>Viewing Angle</b>	178°/178°
<b>Inputs</b>	1×HDMI IN, 1×VGA IN
<b>Outputs</b>	1×RS-232 IN, 1×RS-232 OUT, 1×IR IN
<b>TV Resolution</b>	480i~1080p
<b>PC Resolution</b>	VGA~SXGA
<b>Bezel Area</b>	24mm (left/to)+24mm (right/bottom)
<b>Power Supply</b>	100~240V/5A AC, 50~60Hz
<b>Power Consumption</b>	Up to 180W

[illegible]

## Control System Center

CDPS-CS6



This unit is ideal for a user who has a wide variety of devices that need to be controlled. It comes with eight external trigger connections which directly activate 8 (of 16 total) user defined macro events stored within the unit. All 16 macros are available to be activated via the WebGUI, or by Telnet. Those user defined macros can send commands to remote devices via Ethernet, IR (x4), relay trigger (x4), or RS-232/422/485 (x1) allowing for the control of a large array of devices at the push of a button.

An integrated IR code learning function is also available, allowing the user to store and re-transmit the IR codes sent by nearly any standard IR remote. Comprehensive user control interfaces are available including WebGUI, Telnet and console (RS-232 input). Last but not least, this unit supports PoE (Power over Ethernet) allowing it to be powered directly from a standard PoE network switch, without the need for an external power adapter, allowing for incredible installation flexibility.

- 8 trigger inputs linked directly to 8 user macros allowing for instant control activation
- 4 relay outputs to control devices such as projector screens, lighting, etc.
- 4 IR outputs to control devices such as TVs, media players, etc.
- Integrated IR code learning functionality
- Multiple user control interfaces including WebGUI, Telnet and RS-232
- Simple configuration of macros, triggers, and relay settings via the WebGUI
- PoE (Power over Ethernet) support
- Firmware can easily be updated in the field via USB



## Control System Center

CDPS-CS4



As we enter a new era of smart devices the dream of controlling everything with one finger is finally upon us. This unit allows those dreams to come true by not only providing direct but also indirect control interfaces for all of your devices. Direct control methods like IR (with IR learning), relay and DC triggers allow users to maintain traditional styles of control over devices while indirect control methods such as RS-232 and Telnet/WebGUI allow users with computers or tablets control newer, more complicated devices. With this product you can pre-program and recall up to 16 distinct macros (8 can be directly activated via external triggers or IR remote) providing for complete control over your audio and video environment.

- Supports an IR learning function which captures the IR signal broadcast by your remote when you press a button for retransmission as a part of a macro
- Supports trigger inputs with a voltage range of 0~15V (triggers at 5V)
- Supports 1 IR Learning input, 8 IR outputs, 8 Trigger inputs, 8 Relay outputs, 2 COM ports, and 4 Ethernet ports
- Supports Baud rates from 4800bps to 115200bps
- Supports 10/100 Ethernet network connections

## 4×4 HDBaseT 4K Matrix (Integrated Control System)

CDPS-UC4H4CVES



This matrix allows up to 4 HDMI sources to be transmitted across any of up to 4 HDBaseT outputs via single CAT5e/6/7 cables at distances of up to 100m with 24V PoC (Power over Cable) support. The built-in fast switching technology greatly reduces the time required between switches before a newly selected source is live. The included control system functionality provides access not only to direct but also indirect control interfaces for all of your devices. Direct control methods such as IR (with IR Learning), RS-232, relay and DC triggers allow users to maintain traditional styles of control over devices while indirect device control is possible using Telnet allowing users to control newer, more complicated devices.

The operation of the system can be easily managed through the included WebGUI by connecting with your PC, laptop or even a mobile device such as a tablet. Front-panel controls, with an OLED screen to display current settings, are available for hands-on control. Additionally Telnet, RS-232, and an IR remote are available control options.

- HDMI v1.4a with 3D and 4K UHD support, DVI 1.0 compatible
- Supports HDCP 1.4 for all HDMI inputs and HDBaseT outputs
- Supports resolutions up to 3840×2160@50/60Hz (YUV 4:2:0) & 4096×2160@50/60Hz (YUV 4:2:0)
- Supports passthrough of all standard digital audio formats: LPCM 2.0/5.1/7.1, Bitstream, and HD Bitstream
- Per-input HDCP support control
- Supports individual or global EDID management
- HDBaseT Feature Support: High-Definition video and audio, 100BaseT Ethernet, 24V PoC (Power over Cable) and Bidirectional IR control
- Supports 1×IR Learning input, 8×IR outputs, 8×Trigger inputs, 8×Relay outputs, 2×COM ports, and 4×Ethernet ports
- Supports an IR Learning function
- Supports 8 trigger inputs with a voltage range of 0~15V (triggers at 5V)
- Supports baud rates up to 115,200bps
- Supports 10/100Mbps Ethernet network connections

## 4×4 HDMI 4K Matrix (Integrated Control System)

CDPS-UC4H4HFS



This matrix allows up to 4 HDMI sources to be displayed on any of up to 4 HDMI displays. The built-in fast switching technology greatly reduces the time required between switches before a newly selected source is live. The included control system functionality provides access not only to direct but also indirect control interfaces for all of your devices. Direct control methods like IR (with IR learning), relay and DC triggers allow users to maintain traditional styles of control over devices while indirect control methods such as RS-232 and Telnet/WebGUI allow users with computers or tablets control newer, more complicated devices.

The operation of the system can be easily managed through the included WebGUI by connecting with your PC, laptop or even a mobile device such as a tablet. Front-panel controls, with an OLED screen to display current settings, are available for hands-on control. Additionally Telnet, RS-232, and an IR remote are available control options.

- HDMI v1.4a with 3D and 4K UHD support, DVI 1.0 compatible
- Supports HDCP 1.4 for all HDMI inputs and outputs
- Supports resolutions up to 3840×2160@50/60Hz (YUV 4:2:0) & 4096×2160@50/60Hz (YUV 4:2:0)
- Supports passthrough of all standard digital audio formats: LPCM 2.0/5.1/7.1, Bitstream, and HD Bitstream
- Per-input HDCP support control
- Supports individual or global EDID management
- Supports 1×IR Learning input, 8×IR outputs, 8×Trigger inputs, 8×Relay outputs, 2×COM ports, and 4×Ethernet ports
- Supports an IR Learning function
- Supports 8 trigger inputs with a voltage range of 0~15V (triggers at 5V)
- Supports baud rates up to 115,200bps
- Supports 10/100Mbps Ethernet network connections

## 4×1 HDMI 4K Switcher (Integrated Control System)

CDPS-UH4H1HFS



This switcher allows you to select between four HDMI sources and route your selection to a single HDMI display, and with our Fast Switching Technology the time to switch between inputs is greatly reduced. Additionally, audio output without the need of a dedicated amplifier is supported via stereo speaker connections on the back of the unit making it ideal for small events or classrooms.

The included control system functionality provides access not only to direct but also indirect control interfaces for all of your devices. Direct control methods such as IR, RS-232, relay and DC triggers allow users to maintain traditional styles of control over devices while indirect device control is possible using Telnet, allowing users to control newer, more complicated, devices. The operation of the system can be easily managed through the included WebGUI by connecting with your PC, laptop or even a mobile device such as a tablet.



- HDMI v1.4a with 3D and 4K UHD support, DVI 1.0 compatible
- Supports HDCP 1.4 for all HDMI inputs and outputs
- Supports resolutions up to 3840×2160@50/60Hz (YUV 4:2:0) & 4096×2160@50/60Hz (YUV 4:2:0)
- Supports auto source detection and switching
- Supports simultaneous audio output over HDMI and analog L/R
- Speaker outputs support 2.0 LPCM
- Per-input HDCP support control
- Supports system control with 5×IR outputs, 4×Trigger inputs, 4×Relay outputs, 2×COM ports and 1×Ethernet port
- Supports 4 trigger inputs with a voltage range of 0~3.3v
- Supports COM port baud rates from 4800~115200bps
- Supports RS-232, IR, Telnet, and WebGUI controls

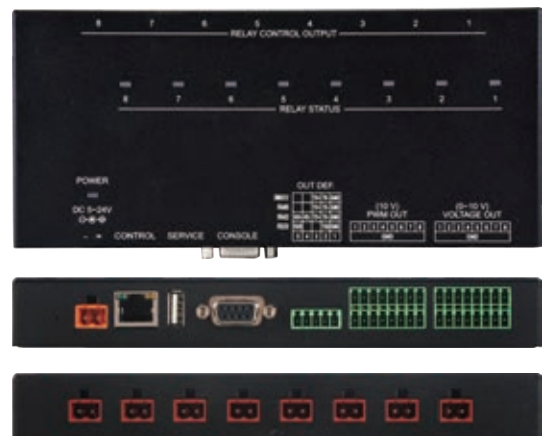
## Relay Controller (Plus Lighting Control)

CDPS-RLY



This unit is designed for flexible multi-purpose integrated system control via triggers, relays and RS-232. With 8 relays to trigger, 8 PWM (Pulse Width Modulation) output ports with configurable duty cycles, 8 adjustable voltage outputs and 1 serial control output port (supporting RS-232/422/485 and DMX-512) this unit provides the ability to control up to 25 connected devices. The unit itself is controlled by either an RS-232 or Telnet connection and the inclusion of PoE (PD) support allows for a large amount of installation flexibility.

- Includes 1 configurable serial output and 8 relay, 8 PWM and 8 voltage outputs
- Relay ports support close, open and toggle control functionality with LED indicators and power support up to 30V/10A DC
- PWM outputs support 10V with a 0~100% adjustable duty cycle
- Voltage outputs provide from 0~10 volts with the power adjustable in 0.1 volt steps (0, 0.1, 0.2~10 volts)
- Configurable serial output supports RS-232/422/485 with an adjustable baud rate
- DMX512 data transmissions up to 250Kbaud/s are supported with unidirectional, serial transmission and a daisy-chain configuration up to 512 nodes with a max time of 22ms (roughly 44Hz)
- RS-232/console supports up to 256 bytes per command
- 5V/2.6A ~ 24V/1.2A DC power supply support
- RS-232 and Telnet control
- Control port supports receiving power via PoE



## DemoPad CENTRO 8 Control Center

CCS-D1



The CENTRO 8 is a powerful automation processor enabling an installer to create customized commercial or residential control systems. Utilizing advanced embedded software, and programmable using DemoPad Designer Software, the CENTRO 8 is the heart of your control system providing complete control over automated and manual control functions. DemoPad is the fastest and most cost effective solution for controlling audio, video, lighting, HVAC, and security systems (CCTV) directly from an iOS or Android device.

The CENTRO 8 incorporates a vast array of connectivity ports for integration of IR, RS-232, Contact Closures, Low Voltage Relays, HDMI, USB, Audio, and LAN. Existing DemoPad software projects can be seamlessly integrated with the controller delivering the ultimate in flexibility for professionals.

- Powerful IP Networking Capabilities: Connect up to 20 simultaneous client devices (iOS/Android), and communicate

with many more control devices throughout the network

- Astronomically-Aware and Date-Aware Timer Events: For example : turn your lights off 25 minutes after sunset, except on weekends and in the summer
- Centrally Stored System Variables: When one user turns a zone On, any other user (including remote ones) also know about it
- Programmable Audio Output: Play a custom doorbell or security alert sound through your audio system when an input triggers, or at certain times
- Programmable HDMI Output: Have another input to your HDMI distribution system to show web pages or a photo frame slideshow, which can be timer-driven
- Built-in Web Server: Store the project on the CENTRO 8 and allow communication of any device with a web browser
- Advanced Macros: Uses the same powerful macro generation routines as our control app
- Upgrade in the field: Return to your clients after installation to enable new features and benefits

## DemoPad CENTRO-C IP Gateway

CDPS-D2



The CENTRO-C IP Gateway is a powerful unit enabling control of equipment over IP via Infra-Red, RS232 & contact closure interfaces. The CENTRO-C can be used by any control system which communicates over TCP/IP.

DemoPad is the fastest and most cost effective solution for controlling audio, video, lighting, HVAC (Heating, Ventilation, Air Conditioning), and security systems (CCTV) directly from an iPhone, iPad, or Android device. The GUI can be customized for a professional and bespoke control system interface.

- Vast Array of Connectivity Ports: With 50 individual ports, some of which are capable of controlling several pieces of equipment, the CENTRO-C is suitable for any size of installation
- Multiple TCP Clients: Allows connection of multiple simultaneous client devices (iOS/Android etc.)
- Control System Independent: You can use the CENTRO-C gateway with either the DemoPad control system, or any other 3rd party control system capable of communicating via TCP/IP
- Expandable: For larger systems, multiple CENTRO-C units can exist on the same network
- Firmware Updates via USB: The included USB cable can be used to upgrade the unit's firmware once it has left the factory
- Auto Notification of Events: 2-way feedback data from RS232 ports and inputs are automatically sent to any connected client devices

## Button Control Keypad

CDPW-K1UD



These keypads are versatile and useful products for both system integrators and smart home users alike. These keypads can send commands to any Ethernet or relay trigger controlled device in your system. With up to 16 physical macro buttons and up to an additional 16 software macro buttons (8 each on the 1 gang version) you can pre-program and recall up to 32 (16) distinct macros providing for complete control over your audio and video environment. The soft and colorful LED buttons are suitable for all environments and PoE (Power over Ethernet) support allows for creative placement of the keypad within your space without needing to be concerned about keeping it near a live power source. Additionally, the integrated clock and calendar based scheduling feature allows you to trigger macros to control devices within your installation at a specific time, or on a recurring schedule.

CDPW-K1US



- 32 (16 on the 1 gang) macros for controlling user equipment
- Up to 128 total commands can be stored and used across all macros in the system (up to 16 per macro)
- Supports relay triggers to control compatible devices
- Supports time and date macro scheduling (single and recurring)
- Supports 48 hours of backup power for the internal clock and schedule function to protect against blackouts and temporary power loss
- Supports customizable daylight savings time for scheduling
- Supports Keypad, Telnet and WebGUI control
- Supports PoE or DC power supply
- US 1 or 2 gang wall plate design with adjustable LED brightness
- Multiple uses for home, hotel rooms, central control rooms, conference rooms, etc.

## Button Control Keypad

CDPW-K1



These keypads are versatile and useful products for both system integrators and smart home users alike. These keypads can send commands to any Ethernet or relay trigger controlled device in your system. With up to 15 physical macro buttons and up to an additional 15 software macro buttons (9 each on the 1 gang version) you can pre-program and recall up to 30 (18) distinct macros providing for complete control over your audio and video environment. The soft and colorful LED buttons are suitable for all environments and PoE (Power over Ethernet) support allows for creative placement of the keypad within your space without needing to be concerned about keeping it near a live power source. Additionally, the integrated clock and calendar based scheduling feature allows you to trigger macros to control devices within your installation at a specific time, or on a recurring schedule.

CDPW-K1S



- 30 (18 on the 1 gang) macros for controlling user equipment
- Up to 128 total commands can be stored and used across all macros in the system (up to 16 per macro)
- Supports relay triggers to control compatible devices
- Supports time and date macro scheduling (single and recurring)
- Supports 48 hours of backup power for the internal clock and schedule function to protect against blackouts and temporary power loss
- Supports customizable daylight savings time for scheduling
- Supports Keypad, Telnet and WebGUI control
- Supports PoE or DC power supply
- UK 1 or 2 gang wall plate design with adjustable LED brightness
- Multiple uses for home, hotel rooms, central control rooms, conference rooms, etc.

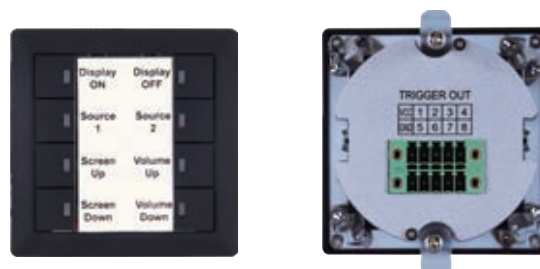
# Button Control Keypad



CDPS-TG1

This keypad is designed to be a simple and efficient interface for a more complex control system. This keypad features a set of 8 buttons which directly activate its 8 trigger connections which can be attached to any compatible control system. The keypad's connection cable allows for the extension of instant system control to locations that are more convenient for user interaction such as a conference table, lectern, or wall plate. The sophisticated appearance makes this keypad an elegant and decorative addition to your living or working space.

- 8 buttons linked directly to 8 triggers which are capable of instantly activating macros or functions on a connected control device
- Provides instant extended physical control of compatible control devices
- Supports macro command activating multiple events from a single button press
- No external power supply required
- User customizable button labels
- Elegant appearance



## 8×8 Bidirectional Infrared Matrix

CMIR-882



This matrix is designed to control eight sources from eight display locations, using the original or programmable remote controls. A true bidirectional matrix design allows any of the eight infrared inputs to be routed to any (or all) of the infrared outputs, giving full independent source to screen or screen to source control.

With the added benefit of infrared master input and output, which can be used to work alongside a HDMI matrix, this unit will allow you to fully control your sources and displays. Together place the IR Extender and IR Blaster near the display and source so that all the sources and displays will receive the infrared signal. So, if you are looking for a way to extend the range of infrared, this unit is a great choice.

- Supports independent IR input and output selection and control
- Supports an IR frequency range of 30~50kHz
- Use your existing remote controls or programmable/universal remote controls
- Supports bidirectional infrared signals from input and output locations
- Controls via RS-232, IR remote control, and on-panel buttons
- 1U size design

## 4×4 Infrared Matrix

CMIR-44



This matrix is designed to control four sources from four display locations, using the original remote or universal remote controls. A true matrix design allows any of the four infrared inputs to be routed to any (or all) of the infrared outputs, giving full independent source to screen (or screen to source) control.

With the added benefit of infrared master input and output, which can be used to work alongside a HDMI matrix, this unit will allow you to fully control your sources and displays. Simply place the IR Extender near the display and place the IR Blaster in a position so that all the sources will receive the infrared signal.

- Supports independent IR input and output selection and control
- Supports an IR frequency range of 30~50kHz
- Use your existing remote controls or programmable/universal remote controls
- Controls via IR remote control and on-panel buttons

## Infrared Learner

CDPS-IRL



This unit is a versatile tool for all your control system design needs. This compact yet functional unit can convert your analog IR commands into digital data and store it for many uses. With the simple software tool the user can store the commands from multiple IR remote controls in a single convenient location such as a laptop for later recall as required.

The unit not only learns the IR command but it can also test that the learning was successful by re-transmitting the command to prove that it has been learned correctly. It is compatible with a wide range of IR frequencies and source devices.

- Receives and transmits an IR command to confirm successful learning
- Converts an IR signal into digital data for control system usage
- Compatible with a wide range of IR format and IR frequencies
- Compact USB dongle design
- Simple software installation

## Infrared Repeater

CIR-12



These units are perfect for controlling source devices over long distances using CAT5 Cable. By using the built-in IR receiver of the IR Repeater, users are able to control up to five sources (with the original remote controls) at the same time at a distance of up to 250 meters. There are no space limitations with these devices, which means even if the sources are in a different room or even another floor than the display, the performance stays the same.

These units give users an easy and convenient way to control their desired source. If however, users only wish to control sources in the same room then the IR Repeater will be enough to control up to 2 sources. The IR Extender is designed for longer distances and extra source device control than the IR Repeater.

## Infrared Extender

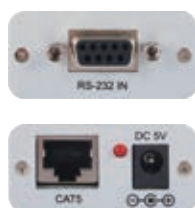
CIR-03



- Supports up to 5 outputs (3 for Infrared Extender, 2 for Infrared Repeater)
- Control source devices anywhere within 250 meters, can be run through walls and ceilings
- Transmits infrared signals only
- It allows the use of existing remote controls
- Only one IR Receiver is needed
- IR Receiver's frequency range is 30~50kHz

## RS-232 over Single-CAT Transmitter & Receiver

CRS-232TX



This transmitter and receiver set is an affordable, hardware-based solution for extending the operating distance between RS-232 protocol controlled devices, such as a projector or HDMI matrix. With most RS-232 devices you are limited by the length of the RS-232 cable, however, this transmitter and receiver set can extend that distance up to 250 meters over a single CAT5e cable allowing a tremendous amount of flexibility in how and where you install your devices. This transmitter and receiver set also provides full duplex transmission and hardware handshaking signals, without the need for any complicated set-up procedures.

CRS-232RX



- Extends the connection of any compatible RS-232 devices up to 250 meters from the input location to the output location
- Requires only a single CAT5e cable
- Perfect for RS-232 control of digital signage
- Supports Baud Rates 110~921600bps and Data Bit 8-bit

## 8-Way DC Power Manager

CPOWER-80W



This unit can distribute electrical power up to 8 devices (10.2 volt/3.2 amp each port) with overall power consumption of 80 watts over Terminal Block (3.5 mm, 2 poles). Ideal for professional applications, this device provides smart control over each individual port and supports adjustable voltage control and On/Off switching functions. It can be controlled through on-panel buttons or via RS-232 commands. It also comes with an OLED display which can show the status of all ports or data for a single port.

- Power management system that can provide voltage controlled current on each port, with the ability to show real-time measurement results on the built-in OLED screen
- PC software application with the capability of collecting voltage current variation data in time and using RS-232 protocols it can create tables and charts of historic data
- Supports adjustment of voltage and current to allow the maximum usage on each channel
- Supports 12 V/6.67 A power input
- Supports overall power consumption up to 80 watts
- Supports up to 8 power outputs with professional pluggable 2-pole 3.5mm Terminal Blocks

## PoC Power Inserter

CH-POC1



This unit is designed to provide 24V power to a connected PoC-enabled HDBaseT Receiver unit over CAT5e/6/7 cable so that is able to operate without the need for a separate power supply. Usually, with a standard 24V PoC (Power over Cable) capable HDBaseT extender set, the Receiver unit can be powered by the connected transmitter unit over a single run of CAT5e/6/7 cable. However, when it comes to integrating multiple PoC-capable HDBaseT Receiver units with a non-PoC capable transmitter or matrix, this unit is the ideal solution to insert the power required by the Receiver units.

- Supports power insertion into an HDBaseT output
- Supports HDBaseT signal bypass
- Power cascading
- Compact and easy to use

## HDMI Power Inserter

CS-PM



This unit allows users to add extra power to HDMI connections. When cascading video over long distances, or when the source device cannot provide enough power, you are often left with a degraded signal because, without enough power, your video signal will not be stable and you cannot increase your operating distance. The HDMI Power Inserter can solve this by providing up to 5V/2A of power to HDMI devices like scalars, splitters or it can power an HDMI Enhancer (with built-in HDMI CDR and equalizer) to stabilize the signal and help to solve HDMI power issues.

- Provides extra power to an HDMI output while safely disconnecting the original power supply from the HDMI input without interrupting the original HDMI signal
- Supports up to 5V/2A
- Over current protection
- Compact and easy to use
- Maximum total input and output cable lengths supported are 16 meters at 8-bit and 10 meters at 12-bit color depth

# HDMI Surge Protector



CS-HHP



This unit is designed to protect the connected source and sink devices by blocking or shunting to ground any unforeseen voltage spikes. This unit is compact in design and comes with standard HDMI input and output interfaces which are compatible with any standard HDMI devices, from media players to displays, on the market. It supports passing HDCP 2.2 content, resolutions up to 4K UHD and does not require external power.

- 5V overvoltage protection circuit design to prevent higher voltages from damaging connected devices
- Compact design with HDMI input and output interfaces
- Easy installation between source and sink devices
- Pass-through support for standard resolutions up to 4K@60Hz (YUV 4:2:0, 8-bit) and 3D resolutions up to 1080p@60Hz
- LPCM and Bitstream digital audio format passthrough
- EDID and CEC passthrough
- HDCP 2.2/1.4 compliant

# KNOWLEDGE BASE

## What is HDMI?

**HDMI (High-Definition Multimedia Interface)** is an audio/video interface for transferring uncompressed video data and compressed/uncompressed digital audio data from a HDMI source device (Blu-ray/DVD player, gaming console, computer, cameras, camcorders, tablets, smart phones, etc.) to a compatible computer monitor, video projector, digital television, or digital audio device. HDMI is a digital replacement for existing analog video standards.

## What's new in HDMI 2.0?

HDMI 2.0 is backwards compatible with earlier versions of the HDMI 1.x specifications, and it significantly increases bandwidth to 18Gbps (from 10.2Gbps of HDMI 1.x) and includes some advanced features as follow:

- Support 4K@50/60 (2160p), RGB 4:4:4 at 8 bit, and RGB 4:2:0 at 8/10/12/16 bit
- Support 4K@24/25/30, RGB 4:4:4 at 8/10/12/16 bit
- Up to 32 audio channels
- Up to 1536kHz audio sample frequency
- Support wide angle theatrical 21:9 video aspect ratio
- CEC extensions provide more expanded command and control

There is currently no solution for existing HDMI 1.x devices to be upgraded with HDMI 2.0 features, because, the new enhanced feature set of HDMI 2.0 requires new hardware and firmware to be implemented. CYP is among the first few manufacturers to license this new HDMI specifications and become HDMI 2.0 Adopter.

## What is HDR?

**HDR (High Dynamic Range)** is a feature referenced in CEA 863.1 standard. Basically, an HDR video source is able to transmit static metadata information to a sink/display, and tells it (if it is HDR-compatible) how to present the most optimal color and contrast range in the underlying video image, so to enhance the viewing experience. HDMI adds the HDR support to its HDMI 2.0a specifications, and Cypress has this ability implemented in all its HDMI 2.0 models.

## What is UHD? What is 4K?

**UHD (Ultra High-Definition)** includes 4K (2160p) and 8K (4320p), which are two latest digital video formats. 4K UHD (or 4K UHD TV) generally refers to a resolution of 3840 pixels by 2160 lines (8.3 megapixels, aspect ratio 16:9), while 4K can also be a resolution of 4096×2160 (8.8 megapixels, aspect ratio 17:9) for 4K film projection.

## What are ARC and HEC?

**ARC (Audio Return Channel)** allows audio from a TV display device to be transmitted over the HDMI cable back to the AV receiver or speakers, this direction is used when the TV is the one that generates or receives the video stream (from tuners or set-top boxes) instead of the other equipment. Some CYP HDMI switchers provide additional ARC support to the convenience of professional/home A/V system installation.

**HEC (HDMI Ethernet Channel)** provides a bidirectional Ethernet communication at 100Mbit/s (100BaseT network), over the HDMI cable, which eliminates the need for a separate Ethernet connection to each network-enabled device (HDTV, Blu-ray/DVD player, AV receiver, etc.) in a professional/home A/V system installation.

ARC and HEC both are new features HDMI introduced to the market few years ago.

## What is CEC?

**CEC (Consumer Electronics Control)** is a HDMI feature designed to allow the user to command and control multiple CEC-enabled devices, that are connected through HDMI, by using only one of their remote controls (for example by controlling an HDTV and Blu-ray/DVD player using only the remote control of the TV). CEC also allows for individual CEC-enabled devices to command and control each other without user intervention.

CEC features are widely adopted by CYP HDMI products, and there are 3 major utilities provided by CYP HDMI matrixes, splitters, switchers, extenders and other products.

- **CEC Bypass:** CEC commands will be routed among the connected devices or from the transmitter to receiver of an extender set, just like HDMI video/audio signals, and any CEC-enabled device in the installation chain will respond the command and operate accordingly.
- **CEC System Reset:** CYP HDMI matrix or splitter with this feature can send a built-in CEC command to all connected CEC-enabled HDTV/displays, every 8~10 minutes, to force them to switch their source input selection to HDMI 1 port.
- **CEC Control:** Connecting to a PC/NB and using the bundled software application, CYP CEC Controller can send CEC commands to control any CEC-enabled device in the installation chain.

## What is HDBaseT?

HDBaseT technology can connect all the entertainment devices in the home through its 5Play™ feature set, converging uncompressed full HD digital video, audio, 100BaseT Ethernet, 48V PoH (Power over HDBaseT) and various control signals all through a single 100m/328ft (or 70m/230ft the lite version) CAT5e/6 cable.

## What's new in HDBaseT 2.0?

HDBaseT 2.0 is the latest specification released by HDBaseT Alliance, it adds new features such as USB 2.0 support and HDMI 2.0 capabilities including 4K@60Hz, on top of the original HDBaseT 1.0 capabilities (transmission of high definition video, audio, Ethernet, power, and controls over single Cat.5 cable) feature set.

While HDBaseT 1.0 addresses the Physical and Data Link layers only, HDBaseT 2.0 adds networking, switching and control point capabilities. HDBaseT 1.0 defined a point-to-point connectivity standard, HDBaseT 2.0 defines point-to-multi point connectivity, thereby providing multi-stream support.

HDMI extenders of HDBaseT 2.0 can transfer 4K content over a longer distance than those of HDBaseT 1.0 specs. CYP is one of the pioneer manufacturers selected to develop and build products of HDBaseT 2.0 specifications, and Cypress has released its first HDBaseT 2.0 extender set in Q3 2014.

## What is HDCP?

**HDCP (High-bandwidth Digital Content Protection)** is a form of digital copy protection to prevent copying of digital audio and video content as it travels across connections. Types of connections include High-Definition Multimedia Interface (HDMI), Digital Visual Interface (DVI), DisplayPort (DP).

## What is HDCP 2.x?

HDCP 2.x stands for the digital content protection specifications released after HDCP 1.x, mainly HDCP 2.0 and HDCP 2.2 versions.

HDCP 2.0 uses industry-standard public-key RSA authentication and AES 128 encryption, to support scenarios requiring compressed content and wireless transmission, while HDCP 1.x technology offers protection mainly for uncompressed content. The interfaces which utilize HDCP 2.0 include DiiVA, NetHD, WHDI, WiHD, and some IP-based extending solutions.

HDCP 2.2 is the latest version of copy protection, it comes with encryption on the keys (encrypted keys between the source and the display) more advanced than previous versions, and it is essentially about UltraHD 4K content. HDCP 2.2 is not backwards compatible with HDCP 1.x, but since only content with resolution of 4K and above will have HDCP 2.2 implementation, the currently popular 1080p playback scenarios (of Blu-ray and HDTV) will not be affected.

For example, your current 1080p displays will work fine with new HDCP 2.2 source devices, presuming you're not trying to send content with HDCP 2.2 protection, also, your current Blu-ray player will send 1080p to a 2.2-enabled receiver, or to a 4K TV, with no issues. CYP has launched its HDCP 2.0 products for years, and for HDCP 2.2, Cypress started developing over solutions with HDCP 2.2 specifications by early 2014, and has already entered mass production for new models.

## What is HDMI Seamless Switching?

With a traditional HDMI matrix or switcher, switching between multiple HDMI inputs can take five or even up to ten seconds, which is always considered as a noticeable delay, to consumer user experience as well as to professional setup. The delay is majorly caused by the HDCP authentication procedure between the source device and the display, as it's required to be done every time the connection is established, for example when you change to another input on a HDMI switcher.

CYP HDMI Seamless Switching matrix and switcher, developed with the latest technologies, are able to solve this issue by sustaining the connection between multiple source devices and the display, it takes almost no time (only few milliseconds depends on the capability of the connected display) to show video from the next selected input.

## What is 3G-SDI?

**SDI (Serial Digital Interface)** is a family of digital video interfaces standardized by SMPTE (The Society of Motion Picture and Television Engineers). SDI signal is digital and uncompressed, running over coaxial cable and using BNC connector. SMPTE standards (such like 259M) and associated bitrates define SDI signal to different specs, and the 3 most well-known among the specs are SD-SDI, HD-SDI and 3G-SDI. The 3G-SDI can allow up to 3Gbps bandwidth which is required by transferring a 1080p signal. CYP has full series of 3G-SDI products, including matrixes, splitters, switchers, converters and scalers, all of them support 3G-SDI and are down-compatible with SD-SDI and HD-SDI interfaces.

HDMI/HDTV resolutions can be basically mapped to SDI interfaces as below:

- **SD-SDI** standardized in SMPTE 259M-C@270Mbps (supports 480i/576i)
- **HD-SDI** standardized in SMPTE 292M@1.485Gbps & 1.485/1.001Gbps (supports 720p/1080i)
- **3G-SDI** standardized in SMPTE 424M/425M-A@2.970Gbps & 2.970/1.001Gbps (supports 1080p)

## What is a Video Scaler?

A Video Scaler is basically a device that can convert the resolution of video signals, resulting a different output video from the input. Besides changing the size (the number of horizontal and vertical pixels) of the original video signals, video scaler products provides additional features including Analog-to-Digital or Digital-to-Analog signal conversion, Noise Reduction, De-interlacing, Comb Filtering, Motion Picture Improvement, Aspect Ratio conversion, Analog Television System conversion, Frame Rate conversion, and others which can optimize the output video signal for given display settings.

# KNOWLEDGE BASE

## What can I do with 3D video signal when my TV only supports 2D?

The 2D-only TVs normally cannot handle the incoming 3D video signal, because of the limited processing ability of the TV, the image it presents could be repeated (2 duplicated one) and incorrectly scaled vertically or horizontally. To make it simple, the depth of 3D image is actually constructed by 2 same images overlapping (vertically or horizontally depends on the 3D technology involved), and since a 2D-only TV cannot recognize this kind of signal it will fail to playback properly, CYP 3D to 2D converter can solve the problem by removing the additional image to make 2D signal.

## What is EDID? How to manage EDID?

**EDID (Extended Display Identification Data)** is one of the standards defined by Video Electronics Standards Organization (VESA). A digital display or monitor provides EDID to a video source to describe its capabilities such as audio and video formats, color space and color depth.

EDID management basically refers to two types of operation, one is EDID selection and the other is EDID manipulation, both features are widely adopted by CYP in its products of several categories. Most of CYP HDMI matrixes and splitters carry EDID selection feature which allows user to switch between external EDID (of the display) and internal EDID (built-in). And there are CYP EDID selectors and signal generators, these products allow user to modify the audio and video specifications in the EDID before send it to the video source. This helps to solve incompatibility between display and source, and is very useful for system diagnosis for integration of audio and video equipment.

## What is Dolby Digital?

**Dolby Digital** (also known as **AC-3**) is a lossy audio compression format. It supports channel configurations from mono up to six discrete channels (referred to as "5.1"). This format first allowed and popularized surround sound. It was first developed for movie theater sound and spread to CD, DVD and Blu-ray, now a common audio format for home entertainment.

The Dolby Digital audio signals from DVD/Blu-ray player are digitally compressed and encoded by Dolby Digital technology, so an AV receiver is required to decode and convert the signals to analog format before users can enjoy the audio from their speakers. To handle Dolby Digital audio, CYP provides much simpler (and much smaller) solution than bulky AV receiver, with the tiny audio decoder gadgets which can do decoding and conversion of Dolby Digital audio in a plug and play fashion.

## What is DTS?

**DTS (Digital Theater Systems)** is a series of multichannel audio technologies owned by DTS, Inc., an American company specializing in digital surround sound formats used for both commercial/theatrical and consumer grade applications. DTS is a common audio format for movie theater sound, CD, DVD and Blu-ray, and home entertainment. Since there is the need in the market to process DTS audio stream, CYP designs and manufactures simple audio gadget models which can do decoding and conversion of DTS audio in a plug and play fashion.

## What is LPCM?

**LPCM (Linear Pulse-Code Modulation)** is a method of encoding up to 8 channels (7.1) of uncompressed audio into a digital video signal, and the term also refers collectively to formats using this method of encoding. HDMI interface supports up to 8-channel of LPCM/192kHz/24-bit audio, which is generally the default audio output format of Blu-ray player.

## What are Telnet and WebGUI?

There are many methods to control your equipment besides pushing the buttons on its panels, protocols such like IR (Infrared), RS-232, and USB are all very common and handy in most cases. However, the utilization of IR/RS-232/USB can be limited by the distance of either infrared transmission or cable connection, so these protocols can only serve near or local operation.

To the need of operating equipment over long distance and wide area, nowadays many equipment are designed to be controlled on the network (or over IP), CYP has adopted this technology and applied it to several new matrix products. CYP IP-Control-Enabled matrix has its own IP address, just like regular network equipment or computer, and can be accessed over Ethernet network using Telnet or TCP/IP protocol, and the later one comes with webpages which provides all available Graphic User Interface (WebGUI) for user to control the equipment.

## What is µCS?

µCS stands for **Micro Control System**, CYP released its first µCS model to the automation and control market at the Hong Kong Electronics Fair (Autumn Edition), in October 2014. CYP µCS models are designed to meet the core necessity of connectivity and control in small to medium scale installation scenarios, and the purpose behind the development is to provide an alternative option of straight-forward operation and cost-effectiveness to the professional integrators who might consider to switch over from existing huge and complicated control systems. CYP µCS models support traditional direct control systems such like IR, Relay and DC, as well as indirect control systems such like IR Learning, RS-232, Telnet/Web GUI controls, and altogether the feature set can provide users with PC or APP based control systems a great flexibility.

## How to get firmware update for the CYP products?

To obtain updated firmware or software for CYP products, end user needs to contact his/her local distributor. Due to certain hardware tools and software applications are needed to update most of CYP products, and the updating procedure requires certain skills and expertise to be performed properly, we do not provide online service of firmware update at this moment and it's not recommended for end-users to do update by themselves without the technical support from CYP distributors.

## What's CYP's warranty and repair policy?

At CYP, we are committed to offer high standard after-sales service, and we offer 18 months warranty period starting from the day the product is manufactured. End users must contact their local distributor from where the fault unit(s) was/were purchased to access to the repair service. CYP will not accept direct return from end user unless the faulty issue was reported to the distributor and was not addressed appropriately.

## Where can I buy CYP products?

We have distributors throughout the world who are more than happy to help end users. Simply visit our official website at [www.cypress.com.tw](http://www.cypress.com.tw) and go to the Distributors Page to look for the distributors at your location. Or, you can contact us directly at the email address below:

- Product Inquiry Email 1: [cypress@cypress.com.tw](mailto:cypress@cypress.com.tw)
- Product Inquiry Email 2: [cypress2@ms35.hinet.net](mailto:cypress2@ms35.hinet.net)

## Where can I get more details about the CYP products?

Please visit our official website at [www.cypress.com.tw](http://www.cypress.com.tw) and go to the Product Page of the products you're interested, and download the user manual for product feature introduction and operation guideline.

# PRODUCT SPECS

## HDBaseT Products

### 1. HDBaseT Matrixes

Model	Inputs	Outputs	HDBaseT Spec.	Max. Resolutions (Hz)	3D	HD Audio	LAN	IR	RS-232	PoH/PoC	HDCP Compliance
CPLUS-1082CVEA	10×HDMI	2×HDMI 8×CAT5e/6/7	1.0	4K@50/60 (4:4:4) 4K@50/60 (4:2:0)	Yes	Yes	Yes	Yes	Yes	48V	2.2/1.4
CPLUS-1082CVAL	10×HDMI	2×HDMI 8×CAT5e/6/7	1.0 (Lite)	4K@50/60 (4:4:4) 4K@50/60 (4:2:0)	Yes	Yes	-	Yes	Yes	48V	2.2/1.4
CPLUS-662CVEA	6×HDMI	2×HDMI 6×CAT5e/6/7	1.0	4K@50/60 (4:4:4) 4K@50/60 (4:2:0)	Yes	Yes	Yes	Yes	Yes	48V	2.2/1.4
CPLUS-662CVAL	6×HDMI	2×HDMI 6×CAT5e/6/7	1.0 (Lite)	4K@50/60 (4:4:4) 4K@50/60 (4:2:0)	Yes	Yes	-	Yes	Yes	48V	2.2/1.4
CPLUS-442CVEA	4×HDMI	2×HDMI 4×CAT5e/6/7	1.0	4K@50/60 (4:4:4) 4K@50/60 (4:2:0)	Yes	Yes	Yes	Yes	Yes	48V	2.2/1.4
CPLUS-442CVAL	4×HDMI	2×HDMI 4×CAT5e/6/7	1.0 (Lite)	4K@50/60 (4:4:4) 4K@50/60 (4:2:0)	Yes	Yes	-	Yes	Yes	48V	2.2/1.4
CMPRO-UA8H8CVE	8×HDMI	8×CAT5e/6/7	1.0	4K@50/60 (4:2:0)	Yes	Yes	Yes	Yes	Yes	24V	2.2/1.4
CMPRO-UA8H8CVPL	8×HDMI	8×CAT5e/6/7	1.0 (Lite)	4K@50/60 (4:2:0)	Yes	Yes	-	Yes	Yes	24V	2.2/1.4
CMPRO-U8H8CVE	8×HDMI	8×CAT5e/6/7	1.0	4K@50/60 (4:2:0)	Yes	Yes	Yes	Yes	Yes	24V	1.x
CMPRO-U8H8CVPL	8×HDMI	8×CAT5e/6/7	1.0 (Lite)	4K@50/60 (4:2:0)	Yes	Yes	-	Yes	Yes	24V	1.x
CMPRO-U4H4CVE	4×HDMI	4×CAT5e/6/7	1.0	4K@50/60 (4:2:0)	Yes	Yes	Yes	Yes	Yes	24V	1.x
CMPRO-U4H4CVPL	4×HDMI	4×CAT5e/6/7	1.0 (Lite)	4K@50/60 (4:2:0)	Yes	Yes	-	Yes	Yes	24V	1.x
CMSI-18H8CVE	8×HDMI	8×CAT5e/6/7	1.0	1080p@50/60	Yes	Yes	Yes	Yes	Yes	48V	1.x
CMSI-8H8CVE	8×HDMI	8×CAT5e/6/7	1.0	1080p@50/60	Yes	Yes	Yes	Yes	Yes	24V	1.x
CMSI-8H8CV	8×HDMI	8×CAT5e/6/7	1.0	1080p@50/60	Yes	Yes	-	Yes	Yes	24V	1.x
CMSI-8H8CVL	8×HDMI	8×CAT5e/6/7	1.0 (Lite)	1080p@50/60	Yes	Yes	-	Yes	Yes	-	1.x
CMSI-4H4CV	4×HDMI	4×CAT5e/6/7	1.0	1080p@50/60	Yes	Yes	-	Yes	Yes	24V	1.x
CMSI-4H4CVL	4×HDMI	4×CAT5e/6/7	1.0 (Lite)	1080p@50/60	Yes	Yes	-	Yes	Yes	-	1.x
CMSI-48E	4×HDMI	4×HDMI 4×CAT5e/6/7	1.0	1080p@50/60	Yes	Yes	Yes	Yes	Yes	24V	1.x
CMSI-46PL	4×HDMI	2×HDMI 4×CAT5e/6/7	1.0 (Lite)	1080p@50/60	Yes	Yes	-	Yes	Yes	24V	1.x
CMSI-424E	4×HDMI	2×HDMI 4×CAT5e/6/7	1.0	1080p@50/60	Yes	Yes	Yes	Yes	Yes	24V	1.x
CMSI-424L	4×HDMI	2×HDMI 4×CAT5e/6/7	1.0 (Lite)	1080p@50/60	Yes	Yes	-	Yes	Yes	-	1.x

### 2. HDBaseT Splitters

Model	Inputs	Outputs	HDBaseT Spec.	Max. Resolutions (Hz)	3D	HD Audio	LAN	IR	RS-232	PoH/PoC	HDCP Compliance
CHDBT-2H8CE	2×HDMI	1×HDMI 8×CAT5e/6/7	1.0	4K@50/60 (4:2:0)	Yes	Yes	Yes	Yes	Yes	24V	1.x
CHDBT-1H7CE	1×HDMI	1×HDMI 7×CAT5e/6/7	1.0	4K@50/60 (4:2:0)	Yes	Yes	Yes	Yes	-	24V	1.x
CHDBT-1H7CPL	1×HDMI	1×HDMI 7×CAT5e/6/7	1.0 (Lite)	4K@50/60 (4:2:0)	Yes	Yes	-	Yes	-	24V	1.x
CHDBT-1H7CL	1×HDMI	1×HDMI 7×CAT5e/6/7	1.0 (Lite)	4K@50/60 (4:2:0)	Yes	Yes	-	Yes	-	-	1.x
CHDBT-1H3CE	1×HDMI	1×HDMI 3×CAT5e/6/7	1.0	4K@50/60 (4:2:0)	Yes	Yes	Yes	Yes	-	24V	1.x
CHDBT-1H3CPL	1×HDMI	1×HDMI 3×CAT5e/6/7	1.0 (Lite)	4K@50/60 (4:2:0)	Yes	Yes	-	Yes	-	24V	1.x
CHDBT-1H3CL	1×HDMI	1×HDMI 3×CAT5e/6/7	1.0 (Lite)	4K@50/60 (4:2:0)	Yes	Yes	-	Yes	-	-	1.x
CHDBT-1H2CE	1×HDMI	1×HDMI 2×CAT5e/6/7	1.0	4K@50/60 (4:2:0)	Yes	Yes	Yes	Yes	Yes	24V	1.x
CHDBT-1H1CE	1×HDMI	1×HDMI 1×CAT5e/6/7	1.0	4K@50/60 (4:2:0)	Yes	Yes	Yes	Yes	Yes	24V	1.x
CHDBT-1H1CPL	1×HDMI	1×HDMI 1×CAT5e/6/7	1.0 (Lite)	4K@50/60 (4:2:0)	Yes	Yes	-	Yes	Yes	24V	1.x
CHDBT-1H1CL	1×HDMI	1×HDMI 1×CAT5e/6/7	1.0 (Lite)	4K@50/60 (4:2:0)	Yes	Yes	-	Yes	Yes	-	1.x
CHDBR-2HE	1×CAT5e/6/7	2×HDMI	1.0	4K@50/60 (4:2:0)	Yes	Yes	Yes	Yes	Yes	24V	1.x

Note: Specifications are subject to change without notice.

# PRODUCT SPECS

## HDBaseT Products (continued)

### 3. HDBaseT Extenders

Model	Inputs	Outputs	HDBaseT Spec.	Max. Resolutions (Hz)	3D	HD Audio	LAN	IR	RS-232	PoH/PoC	HDCP Compliance
CH-1601TX CH-1601RX	1×HDMI 1×USB 2.0 (Mini-B)	1×HDMI 2×USB 2.0 (Type-A)	2.0	4K@50/60 (4:2:0)	Yes	Yes	Yes	Yes	Yes	48V	2.2/1.4
CH-1527TX CH-1527RX	1×HDMI	1×HDMI	1.0	4K@50/60 (4:2:0)	Yes	Yes	Yes	Yes	Yes	48V	1.x
CH-1527TXPL CH-1527RXPL	1×HDMI	1×HDMI	1.0 (Lite)	4K@50/60 (4:2:0)	Yes	Yes	-	Yes	Yes	48V	1.x
CH-1507TX CH-1507RX	1×HDMI	1×HDMI	1.0	4K@50/60 (4:2:0)	Yes	Yes	Yes	Yes	Yes	48V	1.x
CH-2507TX CH-2507RX	1×HDMI	1×HDMI	1.0	4K@50/60 (4:2:0)	Yes	Yes	Yes	Yes	Yes	48V	1.x
CH-1109TXC CH-1109RXC	1×HDMI	1×HDMI	1.0	4K@50/60 (4:2:0)	Yes	Yes	Yes	Yes	Yes	24V	1.x
CDVI-1109TXC CDVI-1109RXC	1×DVI	1×DVI	1.0	4K@50/60 (4:2:0)	Yes	Yes	Yes	Yes	Yes	24V	1.x
CH-526RX	1×CAT5e/6/7	2×HDMI	1.0	4K@50/60 (4:2:0)	Yes	Yes	Yes	Yes	Yes	24V	1.x
CH-526RXPL	1×CAT5e/6/7	2×HDMI	1.0 (Lite)	4K@50/60 (4:2:0)	Yes	Yes	-	Yes	Yes	24V	1.x
CH-515RXPT	1×CAT5e/6/7	1×HDMI	1.0	4K@50/60 (4:2:0)	Yes	Yes	Yes	-	-	24V	1.x
CH-514TXL CH-514RXL CH-514TXLN CH-514RXLN	1×HDMI	1×HDMI	1.0 (Lite)	4K@50/60 (4:2:0)	Yes	Yes	-	Yes	-	-	1.x
CH-513TXL CH-513RXL CH-513TXLN CH-513RXLN	1×HDMI	1×HDMI	1.0 (Lite)	4K@50/60 (4:2:0)	Yes	Yes	-	Yes	Yes	-	1.x
CDVI-513TXL CDVI-513RXL	1×DVI	1×DVI	1.0 (Lite)	4K@50/60 (4:2:0)	Yes	Yes	-	-	-	-	1.x
CH-507TX CH-507RX	1×HDMI	1×HDMI	1.0	4K@50/60 (4:2:0)	Yes	Yes	Yes	Yes	Yes	24V	1.x
CH-507TXBD CH-507RXBD	1×HDMI	1×HDMI	1.0	4K@50/60 (4:2:0)	Yes	Yes	Yes	Yes	Yes	24V	1.x
CH-507TXWBD CH-507RXWBD	1×HDMI	1×HDMI	1.0	4K@50/60 (4:2:0)	Yes	Yes	Yes	Yes	Yes	24V	1.x
CH-506TX CH-506RX	1×HDMI	1×HDMI	1.0	4K@50/60 (4:2:0)	Yes	Yes	-	Yes	Yes	-	1.x
CH-506TXL CH-506RXL	1×HDMI	1×HDMI	1.0 (Lite)	4K@50/60 (4:2:0)	Yes	Yes	-	Yes	Yes	-	1.x
CH-506TXPL CH-506RXPL	1×HDMI	1×HDMI	1.0 (Lite)	4K@50/60 (4:2:0)	Yes	Yes	-	Yes	Yes	24V	1.x
CH-506TXPLBD CH-506RXPLBD	1×HDMI	1×HDMI	1.0 (Lite)	4K@50/60 (4:2:0)	Yes	Yes	-	Yes	Yes	24V	1.x
CH-501TX CH-501RX	1×HDMI	1×HDMI	1.0	4K@50/60 (4:2:0)	Yes	Yes	-	Yes	Yes	-	1.x
CSI-8H8CV2IR	8×HDMI	8×CAT5e/6/7	1.0	4K@50/60 (4:2:0)	Yes	Yes	-	Yes	-	24V	1.x
CSI-8H8CVTX	8×HDMI	8×CAT5e/6/7	1.0	4K@50/60 (4:2:0)	Yes	Yes	-	-	-	24V	1.x

### 4. HDBaseT Slimline Extenders

Model	Inputs	Outputs	HDBaseT Spec.	Max. Resolutions (Hz)	3D	HD Audio	LAN	IR	RS-232	PoH/PoC	HDCP Compliance
CH-2602RX	1×CAT5e/6/7	1×HDMI 2×USB 2.0 (Type-A)	2.0	4K@50/60 (4:2:0)	Yes	Yes	Yes	Yes	Yes	48V	2.2/1.4
CH-1602TX CH-1602RX	1×HDMI 1×USB 2.0 (Mini-B)	1×HDMI 2×USB 2.0 (Type-A)	2.0	4K@50/60 (4:2:0)	Yes	Yes	Yes	Yes	Yes	48V	2.2/1.4
CH-1602TXR CH-1602RXR	1×HDMI	1×HDMI	2.0	4K@50/60 (4:2:0)	Yes	Yes	Yes	Yes	Yes	48V	2.2/1.4
CH-1529TX CH-1529RX	1×HDMI	1×HDMI	1.0	4K@50/60 (4:2:0)	Yes	Yes	Yes	Yes	Yes	48V	2.2/1.4
CH-1529TXPL CH-1529RXPL	1×HDMI	1×HDMI	1.0 (Lite)	4K@50/60 (4:2:0)	Yes	Yes	-	Yes	Yes	48V	2.2/1.4
CH-1528TX CH-1528RX	1×HDMI 1×USB 2.0 (Mini-B)	1×HDMI 2×USB 2.0 (Type-A)	1.0	4K@50/60 (4:2:0)	Yes	Yes	Yes	Yes	Yes	48V	1.x

Note: Specifications are subject to change without notice.

# PRODUCT SPECS

## HDBaseT Products (continued)

### 5. HDBaseT Wallplate Extenders

Model	Inputs	Outputs	HDBaseT Spec.	Max. Resolutions (Hz)	3D	HD Audio	LAN	IR	RS-232	PoH/PoC	HDCP Compliance
CH-2602TXWPUS	1×HDMI 1×USB 2.0 (Type-B)	1×CAT5e/6/7	2.0	4K@50/60 (4:2:0)	Yes	Yes	Yes	Yes	Yes	48V	2.2/1.4
CH-1602TXWPUS CH-1602RXWPUS	1×HDMI 1×USB 2.0 (Type-B)	1×HDMI 2×USB 2.0 (Type-A)	2.0	4K@50/60 (4:2:0)	Yes	Yes	Yes	Yes	Yes	48V	2.2/1.4
CH-1602TXWPUK CH-1602RXWPUK	1×HDMI 1×USB 2.0 (Type-B)	1×HDMI 2×USB 2.0 (Type-A)	2.0	4K@50/60 (4:2:0)	Yes	Yes	Yes	Yes	Yes	48V	2.2/1.4
CH-1527TXWPUS CH-1527RXWPUS	1×HDMI	1×HDMI	1.0	4K@50/60 (4:2:0)	Yes	Yes	Yes	Yes	Yes	48V	1.x
CH-1527TXWPUK CH-1527RXWPUK	1×HDMI	1×HDMI	1.0	4K@50/60 (4:2:0)	Yes	Yes	Yes	Yes	Yes	48V	1.x
CH-514RXWPL	1×CAT5e/6/7	1×HDMI	1.0 (Lite)	4K@50/60 (4:2:0)	Yes	Yes	-	Yes	-	-	1.x
CH-507RXWP	1×CAT5e/6/7	1×HDMI	1.0	4K@50/60 (4:2:0)	Yes	Yes	Yes	Yes	Yes	24V	1.x
CH-507RXWPL	1×CAT5e/6/7	1×HDMI	1.0 (Lite)	4K@50/60 (4:2:0)	Yes	Yes	-	Yes	Yes	-	1.x
CH-507TXWPUS CH-507RXWPUS	1×HDMI	1×HDMI	1.0	4K@50/60 (4:2:0)	Yes	Yes	Yes	Yes	Yes	24V	1.x
CH-507TXWPBD CH-507RXWPBD	1×HDMI	1×HDMI	1.0	4K@50/60 (4:2:0)	Yes	Yes	Yes	Yes	Yes	24V	1.x
CH-506TXWP CH-506RXWP	1×HDMI	1×HDMI	1.0	4K@50/60 (4:2:0)	Yes	Yes	-	Yes	Yes	24V	1.x

### 6. HDBaseT Repeaters

Model	Inputs	Outputs	HDBaseT Spec.	Max. Resolutions (Hz)	3D	HD Audio	LAN	IR	RS-232	PoH/PoC	HDCP Compliance
CHDBX-1C	1×CAT5e/6/7	1×CAT5e/6/7	1.0	4K@50/60 (4:2:0)	Yes	Yes	Yes	Yes	Yes	24V	1.x
CHDBX-1CL	1×CAT5e/6/7	1×CAT5e/6/7	1.0 (Lite)	4K@50/60 (4:2:0)	Yes	Yes	-	Yes	Yes	24V	1.x
CHDBX-1H1CE	1×CAT5e/6/7	1×HDMI 1×CAT5e/6/7	1.0	4K@50/60 (4:2:0)	Yes	Yes	Yes	Yes	Yes	24V	1.x
CHDBX-1H1CPL	1×CAT5e/6/7	1×HDMI 1×CAT5e/6/7	1.0 (Lite)	4K@50/60 (4:2:0)	Yes	Yes	-	Yes	Yes	24V	1.x

## HDMI Products

### 1. HDMI Matrixes

Model	Inputs	Outputs	Max. Resolutions (Hz)	3D	Deep Color	HD Audio	IP Control	RS-232 Control	EDID Selection	HDCP Compliance
CPLUS-V4H4HP	4×HDMI	4×HDMI	4K@50/60 (4:4:4)	Yes	Yes	Yes	Yes	Yes	EDID Menu	2.2/1.4
CPLUS-V4H4H	4×HDMI	4×HDMI	4K@50/60 (4:4:4)	Yes	Yes	Yes	Yes	Yes	EDID Menu	2.2/1.4
CPLUS-V4H2HP	4×HDMI	2×HDMI	4K@50/60 (4:4:4)	Yes	Yes	Yes	Yes	Yes	EDID Menu	2.2/1.4
CDPW-V4H2HP	4×HDMI	2×HDMI	4K@50/60 (4:4:4)	Yes	Yes	Yes	Yes	Yes	-	2.2/1.4
CDPW-V2H4HP	2×HDMI	4×HDMI	4K@50/60 (4:4:4)	Yes	Yes	Yes	Yes	Yes	-	2.2/1.4
CDPS-UA6H2HFS	6×HDMI	2×HDMI	4K@50/60 (4:2:0)	Yes	Yes	Yes	Yes	Yes	EDID Menu	2.2/1.4
CDPS-6H2HFS	6×HDMI	2×HDMI	4K@50/60 (4:2:0)	Yes	Yes	Yes	Yes	Yes	EDID Menu	1.x
CDPS-U10H2HFS	10×HDMI	2×HDMI	4K@50/60 (4:2:0)	Yes	Yes	Yes	Yes	Yes	EDID Menu	1.x
CDPS-U4H4HSA	4×HDMI	4×HDMI	4K@50/60 (4:2:0)	Yes	Yes	Yes	Yes	Yes	EDID Menu	1.x
CMPRO-UA8H8HS	8×HDMI	8×HDMI	4K@50/60 (4:2:0)	Yes	Yes	Yes	Yes	Yes	STD/TV	2.2/1.4
CMPRO-U4H4HS	4×HDMI	4×HDMI	4K@50/60 (4:2:0)	Yes	Yes	Yes	Yes	Yes	STD/TV	1.x
CMPRO-4H2H	4×HDMI	2×HDMI	4K@50/60 (4:2:0)	Yes	Yes	Yes	Yes	Yes	STD/TV	1.x
CMSI-8H8HS	8×HDMI	8×HDMI	1080p@50/60	Yes	Yes	Yes	Yes	Yes	STD/TV	1.x
CMLUX-44E	4×HDMI	4×HDMI	1080p@50/60	Yes	Yes	Yes	-	Yes	STD/TV	1.x
CMLUX-44S	4×HDMI	4×HDMI	1080p@50/60	Yes	Yes	Yes	-	Yes	STD/TV	1.x
CMLUX-42S	4×HDMI	2×HDMI	1080p@50/60	Yes	Yes	Yes	-	Yes	STD/TV	1.x
CMLUX-24S	2×HDMI	4×HDMI	1080p@50/60	Yes	Yes	Yes	-	Yes	STD/TV	1.x
CMLUX-22S	2×HDMI	2×HDMI	1080p@50/60	-	Yes	Yes	-	Yes	STD/TV	1.x
CMSI-8H8HC	8×HDMI	8×HDMI 8×Dual-CAT6	1080p@50/60	Yes	Yes	Yes	Yes	Yes	STD/TV	1.x
CMLUX-4H4CAT	4×HDMI	4×Dual-CAT6	1080p@50/60	Yes	Yes	Yes	-	Yes	STD/TV	1.x

Note: Specifications are subject to change without notice.

## HDMI Products (continued)

### 2. HDMI Splitters

Model	Inputs	Outputs	Max. Resolutions (Hz)	3D	Deep Color	HD Audio	CEC Control	EDID Selection	HDCP Compliance
CPLUS-V10E	1×HDMI	10×HDMI	4K@50/60 (4:4:4)	Yes	Yes	Yes	System Reset	STD/TV	2.2/1.4
CPLUS-V8E	1×HDMI	8×HDMI	4K@50/60 (4:4:4)	Yes	Yes	Yes	System Reset	STD/TV	2.2/1.4
CPLUS-V4E	1×HDMI	4×HDMI	4K@50/60 (4:4:4)	Yes	Yes	Yes	System Reset	STD/TV	2.2/1.4
CPLUS-V2E	1×HDMI	2×HDMI	4K@50/60 (4:4:4)	Yes	Yes	Yes	System Reset	STD/TV	2.2/1.4
CDPS-UA1H10HS	1×HDMI	10×HDMI	4K@50/60 (4:2:0)	Yes	Yes	Yes	System Reset	STD/TV	2.2/1.4
CDPS-UA1H4HS	1×HDMI	4×HDMI	4K@50/60 (4:2:0)	Yes	Yes	Yes	-	STD/TV	2.2/1.4
CDPS-UA1H2HS	1×HDMI	2×HDMI	4K@50/60 (4:2:0)	Yes	Yes	Yes	-	STD/TV	2.2/1.4
CPR0-U8T	1×HDMI	8×HDMI	4K@50/60 (4:2:0)	Yes	Yes	Yes	System Reset	STD/TV	1.x
CPR0-U4T	1×HDMI	4×HDMI	4K@50/60 (4:2:0)	Yes	Yes	Yes	System Reset	STD/TV	1.x
CPR0-U2T	1×HDMI	2×HDMI	4K@50/60 (4:2:0)	Yes	Yes	Yes	System Reset	STD/TV	1.x
CPR0-8ER	1×HDMI	8×HDMI	4K@50/60 (4:2:0)	Yes	Yes	Yes	System Reset	STD/TV	1.x
CPR0-4ER	1×HDMI	4×HDMI	4K@50/60 (4:2:0)	Yes	Yes	Yes	System Reset	STD/TV	1.x
CPR0-16E	1×HDMI	16×HDMI	4K@50/60 (4:2:0)	Yes	Yes	Yes	-	STD/TV	1.x
CPR0-8E	1×HDMI	8×HDMI	4K@50/60 (4:2:0)	Yes	Yes	Yes	-	STD/TV	1.x
CPR0-4E	1×HDMI	4×HDMI	4K@50/60 (4:2:0)	Yes	Yes	Yes	-	STD/TV	1.x
CPR0-2E	1×HDMI	2×HDMI	4K@50/60 (4:2:0)	Yes	Yes	Yes	-	-	1.x
CPR0-8MCEC	1×HDMI	8×HDMI	1080p@50/60	Yes	Yes	Yes	System Reset	STD/TV	1.x
CLUX-18CEC	1×HDMI	8×HDMI	1080p@50/60	Yes	Yes	Yes	-	-	1.x
CLUX-14CEC	1×HDMI	4×HDMI	1080p@50/60	Yes	Yes	Yes	System Reset	-	1.x
CLUX-12CEC	1×HDMI	2×HDMI	1080p@50/60	Yes	Yes	Yes	-	-	1.x
CLUX-8M3D	1×HDMI	8×HDMI	1080p@50/60	Yes	Yes	Yes	System Reset	STD/TV	1.x
CLUX-3D12S1A	1×HDMI	3×HDMI	1080p@50/60	Yes	Yes	Yes	-	-	1.x
CLUX-210S	2×HDMI	10×HDMI	1080p@50/60	Yes	Yes	Yes	-	STD/TV	1.x
CLUX-18S	1×HDMI	8×HDMI	1080p@50/60	Yes	Yes	Yes	-	STD/TV	1.x
CLUX-14S	1×HDMI	4×HDMI	1080p@50/60	Yes	Yes	Yes	-	STD/TV	1.x
CLUX-12S	1×HDMI	2×HDMI	1080p@50/60	Yes	Yes	Yes	-	-	1.x
CLUX-16E	1×HDMI	16×HDMI	1080p@50/60	Yes	Yes	Yes	-	STD/TV	1.x
CLUX-18E	1×HDMI	8×HDMI	1080p@50/60	Yes	Yes	Yes	-	-	1.x
CLUX-14E	1×HDMI	4×HDMI	1080p@50/60	Yes	Yes	Yes	-	-	1.x
CLUX-12E	1×HDMI	2×HDMI	1080p@50/60	Yes	Yes	Yes	-	-	1.x
CLUX-8M	1×HDMI	8×HDMI	1080p@50/60	Yes	Yes	Yes	System Reset	STD/TV	1.x
CLUX-4M	1×HDMI	4×HDMI	1080p@50/60	Yes	Yes	Yes	System Reset	STD/TV	1.x
CLUX-18W	1×HDMI	8×HDMI	1080p@50/60	Yes	Yes	Yes	System Reset	STD/TV	1.x
CLUX-14W	1×HDMI	4×HDMI	1080p@50/60	Yes	Yes	Yes	System Reset	STD/TV	1.x
CLUX-18EU	1×HDMI	8×HDMI	1080p@50/60	Yes	Yes	Yes	System Reset	STD/TV	1.x
CLUX-8MCAT	1×HDMI	8×CAT6	1080p@50/60	Yes	Yes	Yes	-	STD/TV	1.x
CLUX-1H8CAT	1×HDM	1×HDM 7×Dual CAT6	1080p@50/60	Yes	Yes	Yes	System Reset	STD/TV	1.x
CLUX-1H4CAT	1×HDM	1×HDM 3×Dual CAT6	1080p@50/60	Yes	Yes	Yes	System Reset	STD/TV	1.x
CLUX-1CAT8H	1×Dual CAT6	7×HDMI 1×Dual CAT6	1080p@50/60	Yes	Yes	Yes	System Reset	STD/TV	1.x
CLUX-1CAT4H	1×Dual CAT6	3×HDMI 1×Dual CAT6	1080p@50/60	Yes	Yes	Yes	System Reset	STD/TV	1.x
CLUX-22HC	1×HDM 1×Dual CAT6	1×HDM 1×Dual CAT6	1080p@50/60	Yes	Yes	Yes	-	STD/TV	1.x

Note: Specifications are subject to change without notice.

# PRODUCT SPECS

## HDMI Products (continued)

### 3. HDMI Switchers

Model	Inputs	Outputs	Max. Resolutions (Hz)	3D	Deep Color	HD Audio	IP Control	RS-232 Control	EDID Selection	HDCP Compliance
CPLUS-V4H1HP	4×HDMI	1×HDMI	4K@50/60 (4:4:4)	Yes	Yes	Yes	Yes	Yes	EDID Menu	2.2/1.4
CPLUS-V4H1H	4×HDMI	1×HDMI	4K@50/60 (4:4:4)	Yes	Yes	Yes	-	Yes	EDID Menu	2.2/1.4
CPR0-U4H1HFS	4×HDMI	1×HDMI	4K@50/60 (4:2:0)	Yes	Yes	Yes	Yes	Yes	EDID Menu	1.x
CPR0-41W	4×HDMI	1×HDMI	1080p@50/60	Yes	Yes	Yes	-	-	-	1.x
CPR0-3D41GAME	4×HDMI	1×HDMI	1080p@50/60	Yes	Yes	Yes	-	-	-	1.x
CPR0-3D42S	4×HDMI	2×HDMI	1080p@50/60	Yes	Yes	Yes	-	Yes	STD/TV	1.x
CLUX-42SA	4×HDMI	2×HDMI	1080p@50/60	Yes	Yes	Yes	-	Yes	-	1.x
CLUX-42S	4×HDMI	2×HDMI	1080p@50/60	Yes	Yes	Yes	-	Yes	-	1.x
CLUX-42E	4×HDMI	2×HDMI	1080p@50/60	Yes	Yes	Yes	-	Yes	-	1.x
CLUX-4S2	4×HDMI	2×HDMI	1080p@50/60	Yes	Yes	Yes	-	-	-	1.x
CLUX-C81C	8×HDMI	1×HDMI	1080p@50/60	Yes	Yes	Yes	-	Yes	-	1.x
CLUX-C41C	4×HDMI	1×HDMI	1080p@50/60	Yes	Yes	Yes	-	Yes	-	1.x
CLUX-81	8×HDMI	1×HDMI	1080p@50/60	Yes	Yes	Yes	-	Yes	-	1.x
CLUX-61	6×HDMI	1×HDMI	1080p@50/60	Yes	Yes	Yes	-	Yes	-	1.x
CLUX-41N	4×HDMI	1×HDMI	1080p@50/60	Yes	Yes	Yes	-	-	-	1.x
CLUX-31N	3×HDMI	1×HDMI	1080p@50/60	Yes	Yes	Yes	-	-	-	1.x
CLUX-21N	2×HDMI	1×HDMI	1080p@50/60	Yes	Yes	Yes	-	-	-	1.x
CLUX-41W	4×HDMI	1×HDMI	1080p@50/60	Yes	Yes	Yes	-	-	-	1.x
CLUX-31GAME	3×HDMI	1×HDMI	1080p@50/60	Yes	Yes	Yes	-	-	-	1.x
CLUX-41AT	4×HDMI	1×HDMI	1080p@50/60	Yes	Yes	Yes	-	Yes	-	1.x
CLUX-41AP	4×HDMI	1×HDMI	1080p@50/60	Yes	Yes	Yes	-	-	-	1.x
CHDMI-42E	4×HDMI	2×HDMI	1080p@50/60	-	-	-	-	Yes	-	1.x
CHDMI-41AT	4×HDMI	1×HDMI	1080p@50/60	-	-	-	-	Yes	-	1.x
CHDMI-41	4×HDMI	1×HDMI	1080p@50/60	-	-	-	-	Yes	-	1.x
CHDMI-31	3×HDMI	1×HDMI	1080p@50/60	-	-	-	-	Yes	-	1.x

## DVI Products

### 1. DVI Matrixes

Model	Inputs	Outputs	Max. Resolutions (Hz)	3D	Deep Color	HD Audio	IP Control	RS-232 Control	EDID Selection	HDCP Compliance
CMSI-8D8DSA	8×DVI	8×DVI	1080p@50/60	Yes	Yes	Yes	Yes	Yes	STD/TV	1.x
CMSI-8D8DS	8×DVI	8×DVI	1080p@50/60	Yes	Yes	Yes	Yes	Yes	STD/TV	1.x

### 2. DVI Splitters

Model	Inputs	Outputs	Max. Resolutions (Hz)	3D	Deep Color	HD Audio	CEC Control	EDID Selection	HDCP Compliance
CDVI-4DDS	1×DVI	4×DVI	1080p@50/60	-	Yes	Yes	-	-	1.x
CDVI-2DDS	1×DVI	2×DVI	1080p@50/60	-	Yes	Yes	-	-	1.x
CDVI-8S	1×DVI	8×DVI	1080p@50/60	-	Yes	Yes	-	-	1.x
CDVI-4S	1×DVI	4×DVI	1080p@50/60	-	Yes	Yes	-	-	1.x
CDVI-2S	1×DVI	2×DVI	1080p@50/60	-	Yes	Yes	-	-	1.x

### 3. DVI Switchers

Model	Inputs	Outputs	Max. Resolutions (Hz)	3D	Deep Color	HD Audio	IP Control	RS-232 Control	EDID Selection	HDCP Compliance
CDVI-81	8×DVI	1×DVI	1080p@50/60	-	-	-	-	Yes	-	1.x
CDVI-61	6×DVI	1×DVI	1080p@50/60	-	-	-	-	Yes	-	1.x
CDVI-41	4×DVI	1×DVI	1080p@50/60	-	-	-	-	Yes	-	1.x
CDVI-31	3×DVI	1×DVI	1080p@50/60	-	-	-	-	Yes	-	1.x

Note: Specifications are subject to change without notice.

## DP Products

### 1. DP Splitters

Model	Inputs	Outputs	Max. Resolutions (Hz)	3D	Deep Color	HD Audio	CEC Control	EDID Selection	HDCP Compliance
CDP-14C	1×DP	4×DP	WQXGA@60	-	-	-	-	STD/TV	1.3
CDP-13DPI	1×DP	3×DP	WUXGA@60	-	-	-	-	-	1.3
CMDP-13MDPI	1×mDP	3×mDP	WUXGA@60	-	-	-	-	-	1.3

## SDI Products

### 1. SDI Matrixes

Model	Inputs	Outputs	SDI Standards	SDI Bitrates	SDI Cable Length
CMSDI-1616S	16×SDI	16×SDI	SMPTE 259M-C SMPTE 292M SMPTE 424M/425M-A	270Mbps 1.485Gbps & 1.485/1.001Gbps 2.970Gbps & 2.970/1.001Gbps	300m (SD-SDI) 200m (HD-SDI) 100m (3G-SDI)
CMSDI-164	16×SDI	4×SDI	SMPTE 259M-C SMPTE 292M SMPTE 424M/425M-A	270Mbps 1.485Gbps & 1.485/1.001Gbps 2.970Gbps & 2.970/1.001Gbps	300m (SD-SDI) 200m (HD-SDI) 100m (3G-SDI)
CMSDI-124	12×SDI	4×SDI	SMPTE 259M-C SMPTE 292M SMPTE 424M/425M-A	270Mbps 1.485Gbps & 1.485/1.001Gbps 2.970Gbps & 2.970/1.001Gbps	300m (SD-SDI) 200m (HD-SDI) 100m (3G-SDI)
CMSDI-84	8×SDI	4×SDI	SMPTE 259M-C SMPTE 292M SMPTE 424M/425M-A	270Mbps 1.485Gbps & 1.485/1.001Gbps 2.970Gbps & 2.970/1.001Gbps	300m (SD-SDI) 200m (HD-SDI) 100m (3G-SDI)
CMSDI-44	4×SDI	4×SDI	SMPTE 259M-C SMPTE 292M SMPTE 424M/425M-A	270Mbps 1.485Gbps & 1.485/1.001Gbps 2.970Gbps & 2.970/1.001Gbps	300m (SD-SDI) 200m (HD-SDI) 100m (3G-SDI)

### 2. SDI Splitters

Model	Inputs	Outputs	SDI Standards	SDI Bitrates	SDI Cable Length
CSDI-44	4×SDI	4×SDI	SMPTE 259M-C SMPTE 292M SMPTE 424M/425M-A	270Mbps 1.485Gbps & 1.485/1.001Gbps 2.970Gbps & 2.970/1.001Gbps	300m (SD-SDI) 200m (HD-SDI) 100m (3G-SDI)
CSDI-42	4×SDI	2×SDI	SMPTE 259M-C SMPTE 292M SMPTE 424M/425M-A	270Mbps 1.485Gbps & 1.485/1.001Gbps 2.970Gbps & 2.970/1.001Gbps	300m (SD-SDI) 200m (HD-SDI) 100m (3G-SDI)
CSDI-14	1×SDI	4×SDI	SMPTE 259M-C SMPTE 292M SMPTE 424M/425M-A	270Mbps 1.485Gbps & 1.485/1.001Gbps 2.970Gbps & 2.970/1.001Gbps	300m (SD-SDI) 200m (HD-SDI) 100m (3G-SDI)

## Video Products

### 1. HDBaseT Scalers

Model	Inputs	Outputs	Upscaled TV Resolutions (Hz)	Upscaled PC Resolutions (Hz)	Downscaled TV Resolutions (Hz)	Downscaled PC Resolutions (Hz)	Frame Rate Conversion (Hz)
CDPS-84HB	4×HDMI 2×HDBaseT 1×VGA 1×CV	2×HDMI 1×HDBaseT	1080p@50/60	WUXGA@60 (RB)	480p/576p	VGA@60	50/60
CSC-6012TX	1×HDMI	1×HDMI 1×HDBaseT	4K@50/60 (4:4:4) 4K@50/60 (4:2:0)	-	1080p@50/60	-	-
CSC-103TXPL	2×HDMI 1×DP 2×VGA	1×HDMI 1×HDBaseT	1080p@50/60	WUXGA@60 (RB)	480p/576p	VGA@60	50/60
CH-516TXAS	1×VGA 1×CV	1×HDBaseT	1080p@50/60	WUXGA@60 (RB)	480p/576p	VGA@60	50/60
CH-520TXAHS	1×HDMI 1×VGA	1×HDBaseT	1080p@50/60	WUXGA@60 (RB)	480p/576p	VGA@60	50/60
CSC-6012RX	1×HDBaseT	2×HDMI	4K@50/60 (4:4:4)	-	1080p@50/60	-	-
CDPS-US100R	1×HDMI 1×HDBaseT	2×HDMI	4K@50/60 (4:2:0)	WUXGA@60 (RB)	480p/576p	VGA@60	50/60
CH-517RXHS	1×HDBaseT	1×HDMI	1080p@50/60	WUXGA@60 (RB)	480p/576p	VGA@60	50/60
CH-521RXHS	1×HDMI 1×HDBaseT	1×HDMI	1080p@50/60	WUXGA@60 (RB)	480p/576p	VGA@60	50/60

Note: Specifications are subject to change without notice.

# PRODUCT SPECS

## Video Products (continued)

### 2. HDMI Scalers

Model	Inputs	Outputs	Upscaled TV Resolutions (Hz)	Upscaled PC Resolutions (Hz)	Downscaled TV Resolutions (Hz)	Downscaled PC Resolutions (Hz)	Frame Rate Conversion (Hz)
CSLUX-300I	2×HDMI 1×SDI 1×VGA 1×Component Video 1×CV 1×SV	1×HDMI 1×VGA 1×SDI (Bypass)	1080p@50/60	WUXGA@60 (RB)	480p/576p	VGA@60	50/60
CSLUX-300	2×HDMI 1×VGA 1×Component Video 1×CV 1×SV	1×HDMI 1×VGA	1080p@50/60	WUXGA@60 (RB)	480p/576p	VGA@60	50/60
CSC-5500	3×HDMI 3×VGA 1×Component Video 1×CV	2×HDMI 1×VGA	1080p@50/60	WUXGA@60 (RB)	480p/576p	VGA@60	50/60
CSC-5500R	3×HDMI 1×VGA 2×CV	1×HDMI	1080p@50/60	WUXGA@60 (RB)	480p/576p	VGA@60	50/60
CSC-6010D	1×HDMI 1×DP 1×VGA	1×HDMI	4K@50/60 (4:4:4)	WUXGA@60 (RB)	720p@50/60	SVGA@60	50/60
CSC-6011	1×HDMI 1×VGA	1×HDMI	4K@50/60 (4:4:4)	WUXGA@60 (RB)	480p/576p	VGA@60	50/60
CSC-V101P	1×HDMI 1×VGA	1×HDMI	4K@50/60 (4:4:4)	WUXGA@60 (RB)	480p/576p	VGA@60	50/60
CS-801H	2×HDMI 1×DP 1×VGA	1×HDMI	1080p@60	WUXGA@60 (RB)	480p	VGA@60	60
CS-802D	1×DVI-DL 1×mDP 1×VGA	1×HDMI	1080p@60	WUXGA@60 (RB)	480p	VGA@60	60
CS-803MDP	1×mDP	1×HDMI	1080p@60	WUXGA@60 (RB)	480p	VGA@60	60
CPLUS-V2PE	1×HDMI	2×HDMI	4K@50/60 (4:4:4)	-	480p/576p	-	50/60
CPRO-2E4KS	1×HDMI	2×HDMI	4K@24/25/30	-	1080p@24/25/30	-	-
CPRO-12ES	1×HDMI	2×HDMI	1080p@50/60	WUXGA@60 (RB)	480i/576i	VGA@60	-
CP-259HN	1×HDMI	1×HDMI	1080p@50/60	WUXGA@60 (RB)	480p/576p	VGA@60	50/60
CP-298H	1×HDMI	1×HDMI	1080p@60	WUXGA@60 (RB)	720p@60	VGA@60	60
CP-302MN	1×HDMI	1×HDMI	1080p@50/60	WUXGA@60 (RB)	480p/576p	VGA@60	50/60
CP-290	1×DVI 1×VGA	1×HDMI	1080p@50/60	WUXGA@60 (RB)	720p@50/60	XGA@60	-
CP-293N	1×VGA	1×HDMI	1080p@50/60	WUXGA@60 (RB)	480p/576p	VGA@60	50/60
CP-304	1×VGA	1×HDMI	1080p@50/60	WUXGA@60 (RB)	480p/576p	VGA@60	50/60
CP-294	1×Component Video	1×HDMI	1080p@50/60	WUXGA@60 (RB)	480i/576i	VGA@60	50/60
CHQV-3CH	1×Component Video/CV	1×HDMI	1080p@50/60	-	-	-	-
CM-398H	1×CV 1×SV	1×HDMI	1080p@50/60	UXGA@60	-	-	50→60
CM-1392M	1×CV 1×SV	1×HDMI	1080p@50/60	WUXGA@60 (RB)	-	-	50→60
CP-295NN	1×CV 1×SV	1×HDMI	1080p@50/60	WUXGA@60 (RB)	-	-	50/60

Note: Specifications are subject to change without notice.

## Video Products (continued)

### 3. DVI Scalers

Model	Inputs	Outputs	Upscaled TV Resolutions (Hz)	Upscaled PC Resolutions (Hz)	Downscaled TV Resolutions (Hz)	Downscaled PC Resolutions (Hz)	Frame Rate Conversion (Hz)
CP-255DN2	1×DVI 1×VGA 1×Component Video	1×DVI 1×VGA	1080p@50/60	WUXGA@60 (RB)	480i/576i	VGA@60	50/60
CP-255ID	1×DVI 1×VGA 1×CV 1×SV	1×DVI	1080p@50/60	WUXGA@60 (RB)	480p/576p	VGA@60	50/60
CP-254	1×DVI	1×DVI	1080i@50/60 (Pseudo)	SXGA@75	480i/576i	VGA@60	50/60
CP-298D	1×DVI	1×DVI	1080p@60	WUXGA@60 (RB)	480p	VGA@60	60
CP-300VD	1×VGA	1×DVI	-	WUXGA@60 (RB)	-	VGA@60	60, 72, 75, 85 →60
CM-348ST	1×Component Video 1×CV 1×SV	1×DVI	1080i@50/60 (Pseudo)	SXGA@60	480p/576p	VGA@60	50/60
CM-398DI	1×CV 1×SV	1×DVI	1080p@50/60	UXGA@60	-	-	50/60
CM-1391M	1×CV 1×SV	1×DVI	1080p@50/60	WUXGA@60 (RB)	-	-	50→60

### 4. SDI Scalers

Model	Inputs	Outputs	Upscaled TV Resolutions (Hz)	Upscaled PC Resolutions (Hz)	Downscaled TV Resolutions (Hz)	Downscaled PC Resolutions (Hz)	Frame Rate Conversion (Hz)
CSDI-12SR	1×SDI	2×SDI	SMPTE 424M/425M-A	-	SMPTE 259M-C	-	-
CLUX-SDI2HS	1×SDI	1×HDMI	1080p@50/60	WUXGA@60 (RB)	480p/576p	VGA@60	50/60
CLUX-SDI2VS	1×SDI	1×VGA	1080p@50/60	WUXGA@60 (RB)	480p/576p	VGA@60	50/60
CLUX-SDI2CSS	1×SDI	1×CV 1×SV	-	-	NTSC/PAL	-	50/60

### 5. VGA/Component Video Scalers

Model	Inputs	Outputs	Upscaled TV Resolutions (Hz)	Upscaled PC Resolutions (Hz)	Downscaled TV Resolutions (Hz)	Downscaled PC Resolutions (Hz)	Frame Rate Conversion (Hz)
CP-291N	1×VGA	2×VGA	1080p@50/60	WUXGA@60 (RB)	480p/576p	VGA@60	50/60
CP-251F	1×VGA	1×VGA	1080i@50/60 (Pseudo)	SXGA@75	480i/576i	VGA@60	50/60
CM-347ST	1×Component Video 1×CV 1×SV	1×VGA	1080i@50/60 (Pseudo)	SXGA@60	480p/576p	VGA@60	50/60
CM-398M	1×CV 1×SV	1×VGA	1080p@50/60	UXGA@60	-	-	50→60
CM-1390M	1×CV 1×SV	1×VGA	1080p@50/60	WUXGA@60 (RB)	-	-	50→60
CP-292	1×DVI	1×Component Video	1080p@50/60	-	480i/576i	-	50/60

### 6. CV/SV Scalers

Model	Inputs	Outputs	Upscaled TV Resolutions (Hz)	Upscaled PC Resolutions (Hz)	Downscaled TV Resolutions (Hz)	Downscaled PC Resolutions (Hz)	Frame Rate Conversion (Hz)
CM-388M	1×HDMI	1×CV 1×SV	-	-	NTSC/PAL	-	50/60
CM-388N	1×HDMI	1×CV 1×SV	-	-	NTSC/PAL	-	50/60
CPT-385AM	1×VGA	1×CV 1×SV	-	-	NTSC/PAL	-	50/60
CPT-387HD	1×Component Video	1×CV 1×SV	-	-	NTSC/PAL	-	50/60
CV-400H	1×HDMI	1×CV	-	-	NTSC/PAL	-	50/60
CV-401H	1×HDMI	1×CV	-	-	NTSC/PAL	-	50/60
CV-401D	1×DVI	1×CV	-	-	NTSC/PAL	-	50/60
CV-401V	1×VGA	1×CV	-	-	NTSC/PAL	-	50/60

Note: Specifications are subject to change without notice.

# PRODUCT SPECS

## Video Products (continued)

### 7. Video Format Converters

Model	Inputs	Outputs	Input Video Formats	Output Video Formats	TV Resolutions	PC Resolutions
CSC-5300	3×HDMI 1×VGA 2×Component Video 2×CV 2×SV	1×HDMI	Digital RGB/YUV & Analog RGB/YUV	Digital RGB/YUV	480i~1080p	VGA~WUXGA (RB)
CLUX-SDI2HC	1×SDI	1×HDMI	SD/HD/3G-SDI	Digital RGB/YUV	480i~1080p	VGA~WUXGA (RB)
CLUX-SDI2HCA	1×SDI	1×HDMI	SD/HD/3G-SDI	Digital RGB/YUV	480i~1080p	VGA~WUXGA (RB)
CPLUS-VDHP	1×DP	1×HDMI	Digital RGB	Digital RGB/YUV	480p~4K	VGA~WUXGA (RB)
CDPH-1P	1×DP	1×HDMI	Digital RGB	Digital RGB/YUV	480p~1080p	VGA~WUXGA (RB)
CMDPH-2C	1×mDP	1×HDMI	Digital RGB	Digital RGB/YUV	480i~1080p	VGA~WUXGA (RB)
CP-1261HS	1×VGA	1×HDMI	Analog RGB/YUV	Digital RGB/YUV	480i~1080p	VGA~WUXGA (RB)
CP-280H	1×Component Video	1×HDMI	Analog YUV	Digital RGB/YUV	480i~1080p	-
CP-281H	1×Component Video	1×HDMI	Analog YUV	Digital RGB/YUV	480i~1080p	-
CLUX-SDI2DVIA	1×SDI	1×DVI	SD/HD/3G-SDI	Digital RGB	480i~1080p	VGA~WUXGA (RB)
CMDP-DL2DVI	1×mDP	1×DVI	Digital RGB	Digital RGB	-	VGA~WQXGA (RB)
CP-1261D	1×VGA	1×DVI	Analog RGB/YUV	Digital RGB/YUV	480i~1080p	VGA~WUXGA (RB)
CLUX-H2SDI	1×HDMI	2×SDI	Digital RGB/YUV	SD/HD/3G-SDI	480i~1080p	VGA~WUXGA (RB)
CLUX-H2SDIA	1×HDMI	1×SDI	Digital RGB/YUV	SD/HD/3G-SDI	480i~1080p	VGA~WUXGA (RB)
CLUX-DVI2SDIA	1×DVI	1×SDI	Digital RGB	SD/HD/3G-SDI	480i~1080p	VGA~WUXGA (RB)
CP-1283HDT	2×HDMI	1×Component Video	Digital RGB/YUV	Analog YUV	480i~1080p	-
CP-264	1×VGA	1×Component Video	Analog RGB	Analog YUV	480p~720p	VGA~XGA
CP-VSRGB	1×CV 1×SV	1×Component Video	NTSC 3.58/NTSC 4.43/PAL/ PAL-M/PAL-N/SECAM	Analog RGB/YUV	-	-
CP-1262HE	1×HDMI	1×VGA	Digital RGB/YUV	Analog RGB/YUV	480i~1080p	VGA~WUXGA (RB)
CP-1262DE	1×DVI	1×VGA	Digital RGB/YUV	Analog RGB/YUV	480i~1080p	VGA~WUXGA (RB)
CP-265	1×Component Video	1×VGA	Analog YUV	Analog RGB/YUV	480i~1080i	VGA~XGA
CAR-2G	1×CV	1×VGA (DB-9)	NTSC/PAL/SECAM & RGBs	Analog RGB/RGBs	-	-

### 8. USB Video Converters

Model	Inputs	Outputs	Input Video Formats	Output Video Formats	TV Resolutions	PC Resolutions
CDPS-UP301	1×HDMI 2×USB 3.0 (Type-A) 1×SD Card	1×HDMI	Digital RGB/YUV & Propriety Data	Digital RGB/YUV	480i~4K	-
CDL-165HUB	1×USB 2.0 (Mini-B)	1×HDMI 1×VGA 2×USB 2.0 (Type-A)	Propriety Data	Digital RGB/YUV, Analog RGB & Propriety Data	480i~1080p	VGA~UXGA
CUSB-601H	1×HDMI	1×USB 2.0 (Mini-B)	Digital RGB/YUV	Propriety Data	480i~1080p	-
CUSB-603	1×HDMI 1×Component Video/CV/SV	1×USB 2.0 (Mini-B)	Digital RGB/YUV, Analog YUV & NTSC/PAL	Propriety Data	480i~1080p	-
CETH-4HDI	1×USB 2.0 (Mini-B) 1×RJ45	4×HDMI	Propriety Data	Digital RGB/YUV	480i~1080p	VGA~WSXGA+
CETH-4USB	1×USB 2.0 (Mini-B) 1×RJ45	4×USB 2.0 (Type-A)	Propriety Data	Propriety Data	-	-

### 9. TV System Converters

Model	Inputs	Outputs	Input Video Formats	Output Video Formats	TV Resolutions	PC Resolutions
CDM-831TR CDM-831T	2×CV 2×SV	1×Component Video 1×CV 1×SV	NTSC 3.58/NTSC 4.43/PAL/ PAL-M/PAL-N/SECAM	NTSC 3.58/NTSC 4.43/PAL/ PAL-M/PAL-N/SECAM	-	-
CDM-660	1×CV 1×SV	1×CV 1×SV	NTSC 3.58/NTSC 4.43/PAL/ PAL-M/PAL-N/SECAM	NTSC 3.58/PAL	-	-
CDM-160	1×CV 1×SV	1×CV 1×SV	NTSC 3.58/NTSC 4.43/PAL/ PAL-M/PAL-N/SECAM	NTSC 3.58/PAL	-	-
CDM-150	1×CV	1×CV	NTSC 3.58/NTSC 4.43/PAL/ PAL-M/PAL-N/SECAM	NTSC 3.58/PAL	-	-

Note: Specifications are subject to change without notice.

## Video Products (continued)

### 10. AV Effect Processors

Model	Inputs	Outputs	Input Video Formats	Output Video Formats	TV Resolutions	PC Resolutions
<b>CMX-112</b> <b>CMX-12</b>	2×HDMI 2×Component Video 2×CV 2×SV 10×RCA (L/R)	1×HDMI 2×Component Video 2×CV 2×SV 4×RCA (L/R)	Digital RGB/YUV, Analog YUV & NTSC/PAL	Digital RGB/YUV	480i~1080i	-
<b>CMX-07</b>	2×CV 2×SV 6×RCA (L/R)	6×CV 2×SV 4×RCA (L/R)	NTSC/PAL	NTSC/PAL	480i/576i	-
<b>CH-322</b>	1×HDMI	1×HDMI	Digital RGB/YUV	Digital RGB/YUV	480i~1080p	-
<b>CPT-2370</b>	1×VGA 1×CV 1×SV	1×VGA 1×CV 1×SV	Analog RGB & NTSC/PAL	Analog RGB & NTSC/PAL	-	VGA~UXGA
<b>CBK-10</b>	2×CV 2×SV	2×CV 2×SV	NTSC/PAL	NTSC/PAL	-	-

### 11. Video Wall Controllers

Model	Inputs	Outputs	Max. TV Resolutions (Hz)	Max. PC Resolutions (Hz)	Deep Color	HD Audio	Bezel Correction	PiP	Chromakey	HDCP Compliance
<b>CDPS-44SM</b>	4×HDMI	4×HDMI	1080p@50/60	WUXGA@60 (RB)	Yes	Yes	Yes	Yes	Yes	1.x
<b>CDPS-41SQN</b> <b>CDPS-41SQ</b>	4×HDMI	1×HDMI	1080p@50/60	WUXGA@60 (RB)	Yes	Yes	-	Yes	Yes	1.x
<b>CDPS-4S2HSS</b>	4×SDI	2×HDMI	1080p@50/60	WUXGA@60 (RB)	-	-	-	Yes	Yes	1.x
<b>CDPS-4KQ</b>	1×HDMI	4×HDMI	4K@50/60 (4:2:0)	WUXGA@60 (RB)	Yes	Yes	Yes	-	-	1.x
<b>CDPS-14TW</b>	1×HDMI	4×HDMI	1080p@50/60	WUXGA@60 (RB)	Yes (Input)	Yes	Yes	-	-	1.x

### 12. Video Wall Displays

Model	Inputs	Outputs	TV Resolutions	PC Resolutions	SDI Resolutions	Panel Size	Bezel Area	Display Backlight
<b>CVW-60S</b>	2×HDMI 1×VGA 1×SDI 1×IR 1×RS-232	1×SDI 1×RS-232	480i~1080p	VGA~SXGA	SMPTE 259M-C SMPTE 292M SMPTE 424M/425M-A	60"	4.1+2.4mm	LED
<b>CVW-47LG2</b>	1×HDMI 1×VGA 1×IR 1×RS-232	1×RS-232	480i~1080p	VGA~SXGA	-	47"	10+10mm	LCD
<b>CVW-42AK2</b>	1×HDMI 1×VGA 1×IR 1×RS-232	1×RS-232	480i~1080p	VGA~SXGA	-	42"	13+13mm	LED
<b>CVM-42AU2</b>	1×HDMI 1×VGA 1×IR 1×RS-232	1×RS-232	480i~1080p	VGA~SXGA	-	42"	24+24mm	LCD

Note: Specifications are subject to change without notice.

# PRODUCT SPECS

## Audio Products

### 1. Audio Decoders

Model	Inputs	Outputs	Input Audio Formats (Channels)	Output Audio Formats (Channels)	Input Sampling Rates (kHz)	Output Sampling Rates (kHz)
CPLUS-VPE2DD CPLUS-VSE2DD	1×HDMI	1×HDMI 1×COAX 1×TOSLINK 2×RCA	Compressed 5.1 LPCM 2~7.1	Compressed - Bypass LPCM - 2.0/Bypass Analog 2.0	32~96	32~96
CPR0-SE2DD	1×HDMI	1×HDMI 1×COAX 1×TOSLINK 2×RCA	Compressed 5.1 LPCM 2~7.1	Compressed - Bypass LPCM - 2.0/Bypass Analog 2.0	32~96	32~96
DCT-9DD	1×COAX 1×TOSLINK 2×RCA	1×COAX 1×TOSLINK 2×RCA	Compressed 5.1 LPCM 2.0 Analog 2.0	Compressed - Bypass LPCM 2.0 Analog 2.0	32~96	48
DCT-1DD	1×COAX	2×RCA	Compressed 5.1 LPCM 2.0	Analog 2.0	32~96	-
DCT-9DN	1×COAX 1×TOSLINK 2×RCA	1×COAX 1×TOSLINK 2×RCA	Compressed 5.1 LPCM 2.0 Analog 2.0	Compressed - Bypass LPCM 2.0 Analog 2.0	32~96	48
DCT-1D	1×TOSLINK	2×RCA	Compressed 5.1 LPCM 2.0	Analog 2.0	32~96	-

### 2. Audio Amplifiers & Extenders

Model	Inputs	Outputs	Input Audio Formats (Channels)	Output Audio Formats (Channels)	Input Sampling Rates (kHz)	Output Sampling Rates (kHz)
DCT-36	1×TOSLINK 1×Line (Terminal Block) 1×Microphone (Terminal Block) 1×Audio-CAT	1×Speakers (Terminal Block)	LPCM 2.0 Analog 2.0	Analog 2.0	32~192	-
DCT-23HD	1×HDMI 1×HDBaseT 1×COAX 1×TOSLINK 2×RCA 1×3.5mm TRS 1×Audio-CAT	1×HDMI 1×HDBaseT 1×Speakers (Binding Post)	Compressed 5.1/7.1 LPCM 2~7.1 Analog 2.0	Compressed - Bypass LPCM - Bypass Analog 2.0	32~192 (HDMI) 32~48 (S/PDIF)	32~192 (HDMI) 32~48 (S/PDIF)
DCT-23	2×HDMI 1×COAX 1×TOSLINK 2×RCA 1×3.5mm TRS 1×Microphone (XLR)	1×HDMI 1×COAX 1×TOSLINK 2×RCA 1×Speakers (Binding Post)	Compressed 5.1/7.1 LPCM 2~7.1 Analog 2.0	Compressed - Bypass LPCM - Bypass Analog 2.0	32~192 (HDMI) 32~48 (S/PDIF)	32~192 (HDMI) 32~48 (S/PDIF)
DCT-23A	1×COAX 1×TOSLINK 2×RCA 1×3.5mm TRS 1×Audio-CAT	1×Speakers (Binding Post)	LPCM 2.0 Analog 2.0	Analog 2.0	32~96	-
DCT-32TX DCT-32RX	4×RCA 1×RS-232	4×RCA 1×RS-232	Analog 2.0	Analog 2.0	-	-
DCT-30TX DCT-30RX	2×TOSLINK 1×RS-232	2×TOSLINK 1×RS-232	Compressed 5.1 LPCM 2.0	Compressed - Bypass LPCM 2.0	32~192	32~192
CH-304TX CH-304RX	1×COAX 1×TOSLINK	1×COAX 1×TOSLINK	Compressed 5.1 LPCM 2.0	Compressed - Bypass LPCM 2.0	32~96	32~96

Note: Specifications are subject to change without notice.

## Audio Products (continued)

### 3. Audio Format Converters

Model	Inputs	Outputs	Input Audio Formats (Channels)	Output Audio Formats (Channels)	Input Sampling Rates (kHz)	Output Sampling Rates (kHz)
DCT-9	1×COAX 1×TOSLINK 2×RCA	1×COAX 1×TOSLINK 2×RCA	Compressed 5.1 LPCM 2.0 Analog 2.0	Compressed - Bypass LPCM 2.0 Analog 2.0	32, 44.1, 48, 96	32, 44.1, 48, 96
DCT-39	1×COAX 1×TOSLINK	1×COAX 1×TOSLINK	Compressed 5.1 LPCM 2.0	Compressed - Bypass LPCM 2.0	44.1~192	44.1~192
DCT-2	1×COAX 1×TOSLINK	1×COAX 1×TOSLINK	Compressed 5.1 LPCM 2.0	Compressed - Bypass LPCM 2.0	32~96	32~96
DCT-37	1×USB 2.0 (Type-B) 4×HDMI 1×COAX 1×TOSLINK 1×3.5mm TRS	1×HDMI 1×COAX 1×TOSLINK 2×RCA 1×Headphones (6.3mm TRS) 1×Speakers (XLR)	LPCM 2.0 Analog 2.0	LPCM 2.0 Analog 2.0	44.1~384	44.1~384
DCT-21	1×USB 2.0 (Type-B) 1×HDMI 1×COAX 1×TOSLINK 2×RCA 1×3.5mm TRS	1×HDMI 1×COAX 1×TOSLINK 2×RCA 1×Headphones (6.3mm TRS) 1×Speakers (XLR)	LPCM 2.0 Analog 2.0	LPCM 2.0 Analog 2.0	44.1~192	44.1~192
DCT-24	1×USB 2.0 (Type-B) 2×RCA 1×3.5mm TRS	2×RCA 1×Headphones (6.3mm TRS)	LPCM 2.0 Analog 2.0	Analog 2.0	32~192	-
DCT-35	1×TOSLINK 2×RCA	2×RCA	LPCM 2.0 Analog 2.0	Analog 2.0	32~192	-
DCT-15	1×USB 2.0 (Mini-B) 1×TOSLINK	1×TOSLINK 2×RCA	LPCM 2.0	LPCM 2.0 Analog 2.0	44.1/48 (USB) 32~192 (S/PDIF)	-
DCT-16	1×USB 2.0 (Mini-B)	1×TOSLINK 2×RCA 1×Headphones (6.3mm TRS)	LPCM 2.0	LPCM 2.0 Analog 2.0	44.1~192	44.1~192
DCT-8S	1×HDMI	1×HDMI	LPCM 2.0	LPCM 2.0	32~48	32~48
CDB-6HR	1×USB 2.0 (Type-B)	1×TOSLINK	LPCM 2.0	LPCM 2.0	44.1~384	44.1~384
CDB-6	1×USB 2.0 (Type-B)	1×TOSLINK	LPCM 2.0	LPCM 2.0	44.1~192	44.1~192
CDB-6HP	1×USB 2.0 (Type-B)	1×3.5mm TRS	LPCM 2.0	Analog 2.0	44.1~384	-
DCT-40	1×COAX 1×TOSLINK	2×RCA	LPCM 2.0	Analog 2.0	32~192	-
DCT-3A	1×COAX 1×TOSLINK	2×RCA	LPCM 2.0	Analog 2.0	32~192	-
DCT-3HP	1×COAX 1×TOSLINK	1×3.5mm TRS	LPCM 2.0	Analog 2.0	32~192	-
DCT-1	1×TOSLINK	2×RCA	LPCM 2.0	Analog 2.0	32~192	-
DCT-25	1×HDMI	2×RCA	LPCM 2.0	Analog 2.0	32~192	-
DCT-4	2×RCA	1×COAX 1×TOSLINK	Analog 2.0	LPCM 2.0	-	48
DCT-4T	2×RCA	1×COAX 1×TOSLINK	Analog 2.0	LPCM 2.0	-	48
DCT-6S	2×RCA	2×RCA	Analog 2.0	Analog 2.0	-	-
DCT-18N	2×RCA	2×RCA	Analog 2.0	Analog 2.0	-	-
DCT-11S	1×SCART	1×SCART 2×RCA	Analog 2.0	Analog 2.0	-	-

Note: Specifications are subject to change without notice.

# PRODUCT SPECS

## Audio Products (continued)

### 4. Audio Inserters & Extractors

Model	Inputs	Outputs	Input Audio Formats (Channels)	Output Audio Formats (Channels)	Input Sampling Rates (kHz)	Output Sampling Rates (kHz)
CPLUS-V11PI CPLUS-V11SI	1×HDMI 1×TOSLINK 2×RCA	1×HDMI	Compressed 5.1/7.1 LPCM 2.0~7.1 Analog 2.0	Compressed - Bypass LPCM - Bypass Analog 2.0	32~192	32~192
CPRO-11SI	1×HDMI 1×TOSLINK 1×3.5mm TRS	1×HDMI	Compressed 5.1/7.1 LPCM 2.0~7.1 Analog 2.0	Compressed - Bypass LPCM - Bypass Analog 2.0	32~192	32~192
CLUX-11CA	1×HDMI 1×TOSLINK 2×RCA	1×HDMI	Compressed 5.1/7.1 LPCM 2.0~7.1 Analog 2.0	Compressed - Bypass LPCM - Bypass Analog 2.0	32~192 (HDMI) 32~48 (S/PDIF)	32~192
CPLUS-V11PE2 CPLUS-V11SE2	1×HDMI	1×HDMI 1×TOSLINK 2×RCA	Compressed 5.1/7.1 LPCM 2.0~7.1	Compressed - Bypass LPCM - Bypass Analog 2.0	32~192	32~192
CPRO-11SE2	1×HDMI	1×HDMI 1×TOSLINK 1×3.5mm TRS	Compressed 5.1/7.1 LPCM 2.0~7.1	Compressed - Bypass LPCM - Bypass Analog 2.0	32~192	32~192
CLUX-11CD	1×HDMI	1×HDMI 1×TOSLINK 2×RCA	Compressed 5.1/7.1 LPCM 2.0~7.1	Compressed - Bypass LPCM - Bypass Analog 2.0	32~192	32~192 (HDMI) 32~48 (S/PDIF)
CPLUS-V11PE8 CPLUS-V11SE8	1×HDMI	1×HDMI 1×TOSLINK 8×RCA	Compressed 5.1/7.1 LPCM 2.0~7.1	Compressed - Bypass LPCM - Bypass Analog 2.0~7.1	32~192	32~192
CPRO-11SE8	1×HDMI	1×HDMI 1×TOSLINK 4×3.5mm TRS	Compressed 5.1/7.1 LPCM 2.0~7.1	Compressed - Bypass LPCM - Bypass Analog 2.0~7.1	32~192	32~192
CLUX-11SA	1×HDMI	1×HDMI 1×TOSLINK 4×3.5mm TRS	Compressed 5.1/7.1 LPCM 2.0~7.1	Compressed - Bypass LPCM - Bypass Analog 2.0~7.1	32~192	32~192 (HDMI) 32~48 (S/PDIF)
CPLUS-11HB	1×TOSLINK 2×RCA	1×HDMI	Compressed 5.1 LPCM 2.0 Analog 2.0	Compressed - Bypass LPCM 2.0	48	48
CLUX-11HB	1×TOSLINK 2×RCA	1×HDMI	Compressed 5.1 LPCM 2.0 Analog 2.0	Compressed - Bypass LPCM 2.0	32~192	32~192

### 5. Audio Splitters & Switchers

Model	Inputs	Outputs	Input Audio Formats (Channels)	Output Audio Formats (Channels)	Input Sampling Rates (kHz)	Output Sampling Rates (kHz)
DCT-31	4×COAX 4×TOSLINK	10×COAX 10×TOSLINK	Compressed 5.1 LPCM 2.0	Compressed 5.1 LPCM 2.0	32~192	32~192
DCT-28	1×TOSLINK	4×TOSLINK	Compressed 5.1 LPCM 2.0	Compressed 5.1 LPCM 2.0	32~192	32~192
DT-12	1×TOSLINK	2×TOSLINK	Compressed 5.1 LPCM 2.0	Compressed 5.1 LPCM 2.0	32~96	32~96
DCT-17	4×TOSLINK	1×TOSLINK	Compressed 5.1 LPCM 2.0	Compressed 5.1 LPCM 2.0	32~192	32~192
DT-21	2×TOSLINK	1×TOSLINK	Compressed 5.1 LPCM 2.0	Compressed 5.1 LPCM 2.0	32~96	32~96

Note: Specifications are subject to change without notice.

## Extender Products

### 1. CAT5/6 Extenders

Model	Inputs	Outputs	Cable Type	Cable Length	Max. Resolutions (Hz)	3D	Deep Color	HD Audio	HDCP Compliance
CH-1107TX CH-107RXN	1×HDMI	1×HDMI	1×CAT6	45m@8-bit 10m@12-bit	1080p@50/60	Yes	Yes	Yes	1.x
CH-110TX CH-110RX	1×HDMI	1×HDMI	1×CAT6	45m@8-bit	1080p@50/60	-	-	Yes	1.x
CH-1106TX CH-1106RXN	1×HDMI	1×HDMI	2×CAT6	45m@8-bit	1080p@50/60	Yes	-	Yes	1.x
CH-106TXN CH-106RXN	1×HDMI	1×HDMI	2×CAT6	45m@8-bit	1080p@50/60	Yes	-	Yes	1.x
CA-COMPAT CA-COMP50R CA-COMP100R	1×VGA	1×VGA	1×CAT5	50m/100m	UXGA@60 & 1080p@50/60	-	-	-	-
CA-HDMIAT CA-HDMI50R CA-HDMI100R	1×HDMI	1×HDMI	2×CAT5	50m/100m	1080p@50/60	-	-	-	-
CA-DVIAT CA-DVI100R	1×DVI	1×DVI	2×CAT5	100m	WUXGA@60 (RB) & 1080p@50/60	-	-	-	-

### 2. Coaxial Extender

Model	Inputs	Outputs	Cable Type	Cable Length	Max. Resolutions (Hz)	3D	Deep Color	HD Audio	HDCP Compliance
CAC-TXA CAC-RXA	1×HDMI	1×HDMI	5×Coaxial	100m	1080p@50/60	-	Yes	Yes	1.x

### 3. Fiber Extenders

Model	Inputs	Outputs	Cable Type	Cable Length	Max. Resolutions (Hz)	3D	Deep Color	HD Audio	HDCP Compliance
COH-TX2 COH-RX2	1×HDMI	1×HDMI	1×Multi-mode Fiber Optical	300m	4K@50/60 (4:2:0)	Yes	Yes	Yes	1.x
COH-TX1 COH-RX1	1×HDMI	1×HDMI	1×Single-Mode Fiber Optical	300m	1080p@50/60	-	-	-	1.x
COH-TX COH-RX	1×HDMI	1×HDMI	1×Multi-mode Fiber Optical	300m	1080p@50/60	-	-	-	1.x
CLUX-SDI20F CLUX-OF2SDI	1×SDI	1×SDI	1×Single-Mode Fiber Optical	10km	SMPTE 424M/425M-A	-	-	-	-

### 4. KVM Extenders

Model	Inputs	Outputs	Cable Type	Cable Length	Max. Resolutions (Hz)	3D	Deep Color	HD Audio	HDCP Compliance
CH-U331TX CH-U331RX	1×HDMI 1×VGA 1×USB 2.0 (Type-B)	1×HDMI 1×VGA 2×USB 2.0 (Type-A) 2×USB 1.1 (Type-A) 3×LAN	1×CAT5e/6/7	100m	Input: 4K@50/60 (4:2:0) Output: 4K@24/25/30	Yes	Yes	Yes	2.0
CH-U330TX CH-U330RX	1×HDMI 1×VGA 1×USB 2.0 (Type-B)	1×HDMI 1×VGA 2×USB 2.0 (Type-A) 2×USB 1.1 (Type-A) 1×LAN	1×CAT5e/6/7	100m	4K@24/25/30	Yes	Yes	Yes	2.0

### 5. Enhancers

Model	Inputs	Outputs	Input Cable Length	Output Cable Length	Max. Resolutions (Hz)	3D	Deep Color	HD Audio	HDCP Compliance
CPLUS-VHHE	1×HDMI	1×HDMI	5m@4K 10m@1080p	5m@4K 10m@1080p	4K@50/60 (4:4:4)	Yes	Yes	Yes	2.2/1.4
CPLUS-VHHI	1×HDMI	1×HDMI	5m@4K 10m@1080p	5m@4K 10m@1080p	4K@50/60 (4:4:4)	Yes	Yes	Yes	2.2/1.4
CPRO-UHH	1×HDMI	1×HDMI	10m@4K 15m@1080p	10m@4K 15m@1080p	4K@50/60 (4:2:0)	Yes	Yes	Yes	2.2/1.4
CS-HH	1×HDMI	1×HDMI	15m@1080p	15m@1080p	1080p@50/60	Yes	Yes	Yes	1.x
CLUX-DDP	1×DVI	1×DVI	5m@4K 10m@1080p	5m@4K 10m@1080p	4K@50/60 (4:2:0)	Yes	Yes	Yes	2.2/1.4

Note: Specifications are subject to change without notice.

# PRODUCT SPECS

## Extender Products (continued)

### 6. Repeaters

Model	Inputs	Outputs	Input Cable Length	Output Cable Length	Max. Resolutions (Hz)	3D	Deep Color	HD Audio	HDCP Compliance
CPR0-11SR	1×HDMI	1×HDMI	5m@4K 10m@1080p	10m@4K 10m@1080p	4K@50/60 (4:2:0)	Yes	Yes	Yes	1.x
CP-1269HM	1×HDMI	1×HDMI	40m@1080p	10m@1080p	1080p@50/60	-	-	-	1.x
CH-101	1×HDMI	1×HDMI	15m@1080p	10m@1080p	1080p@50/60	-	Yes	Yes	1.x
CH-1107EX	1×HDMI 1×Single-CAT6	1×Single-CAT6	45m@8-bit 10m@12-bit	45m@8-bit 10m@12-bit	1080p@50/60	Yes	Yes	Yes	1.x
CH-108	1×Dual-CAT6	1×Dual-CAT6	45m@8-bit 15m@12-bit	45m@8-bit 15m@12-bit	1080p@50/60	Yes	Yes	Yes	1.x

## Analog AV Products

### 1. Analog AV Matrixes

Model	Inputs	Outputs	Max. Resolutions (Hz)	Audio Format	IR Remote Control	RS-232 Control
CCMX-44DA	4×Component Video	4×Component Video	1080p@50/60	Stereo (S/PDIF & L/R)	Yes	Yes
CCMX-44	4×Component Video	4×Component Video	1080p@50/60	Stereo (L/R)	Yes	Yes
CCMX-42	4×Component Video	2×Component Video	1080p@50/60	Stereo (L/R)	Yes	Yes

### 2. Analog AV Splitters

Model	Inputs	Outputs	Max. Resolutions (Hz)	Audio Format	IR Remote Control	RS-232 Control
CHDD-8C	1×Component Video	8×Component Video	1080p@50/60	Stereo (S/PDIF & L/R)	-	-
CHDD-3C	1×Component Video	3×Component Video	1080p@50/60	Stereo (L/R)	-	-
CPCD-3A	1×VGA	3×VGA	WUXGA@60 (RB)	Stereo (3.5mm)	-	-
CVSD-3A	1×CV 1×SV	3×CV 3×SV	480i/576i	Stereo (L/R)	-	-

### 3. Analog AV Switchers

Model	Inputs	Outputs	Max. Resolutions (Hz)	Audio Format	IR Remote Control	RS-232 Control
CHDD-41AR	4×Component Video	1×Component Video	1080p@50/60	Stereo (S/PDIF & L/R)	Yes	Yes
CPCD-41AR	4×VGA	1×VGA	WUXGA@60 (RB)	Stereo (3.5mm)	Yes	Yes
CVSD-41ARN	4×CV 4×SV	1×CV 1×SV	480i/576i	Stereo (L/R)	Yes	Yes

Note: Specifications are subject to change without notice.

## Troubleshooting Products

### 1. AV Signal Generators

Model	Inputs	Outputs	Max. Output Resolutions	Test Timings	Test Patterns	Audio Analysis	3D Analysis	EDID Analysis	HDCP Analysis	Telnet Control	RS-232 Control
CPLUS-V4H4HPCT	4×HDMI	6×HDMI	4K@50/60 (4:4:4) & WUXGA@60 (RB)	TBD	TBD	Yes	-	Yes	Yes	Yes	Yes
CPLUS-11HB	1×TOSLINK 2×RCA (L/R)	1×HDMI	4K@50/60 (4:4:4)	8	4	-	-	-	2.2/1.4	-	-
CPHD-V4	1×HDMI 1×3.5mm TRS	1×HDMI 1×VGA 1×3.5mm TRS	4K@50/60 (4:4:4) & WUXGA@60 (RB)	88	55	Yes	-	Yes	2.2/1.4	Yes	Yes
CPHD-1	1×TOSLINK 2×RCA (L/R)	1×HDMI	1080p@50/60 & WUXGA@60 (RB)	39	39	Yes	-	Yes	1.x	-	Yes
CH-A1	1×HDMI	1×HDMI 1×TOSLINK	1080p@50/60 & WUXGA@60 (RB)	25	6	Yes	Yes	-	1.x	-	-
CPA-4	1×TOSLINK	1×HDMI	1080p@50/60 & WUXGA@60 (RB)	12	36	Yes	-	Yes	1.x	-	-
LPM-55	-	1×Component Video 1×CV 1×SV	NTSC 3.58/NTSC 4.43, PAL/PAL-M/PAL-N & SECAM	6	55	-	-	-	-	-	-

### 2. EDID/CEC Managers

Model	Inputs	Outputs	Max. TV Resolutions	Max. PC Resolutions
CED-2M	1×HDMI	1×HDMI	4K@50/60Hz (4:4:4)	WUXGA@60Hz (RB)
CED-1M	1×HDMI	1×HDMI	4K@24/25/30Hz	WUXGA@60Hz (RB)
CED-S11	1×HDMI	1×HDMI	1080p@50/60Hz	UXGA@60Hz

### 3. Power Supply Managers

Model	Inputs	Outputs	Inputted Power	Outputted Power
CH-POC1	1×CAT5e/6/7	1×CAT5e/6/7	24V/2.7A	24V/2.7A
CS-HHP	1×HDMI	1×HDMI	5V	5V
CS-PM	1×HDMI	1×HDMI	5V/2.6A	5V/2A
CPOWER-80W	-	8×Terminal Block	12V/6.67A	3.2-10.2V/0.1-3.2A

Note: Specifications are subject to change without notice.

# PRODUCT SPECS

## Modular Products

### 1. Modular Matrixes

Model	Inputs	Outputs	Power Supply	Local Monitoring	IP Control	IR Control	RS-232 Control
CMSI-3232	8×Input Module	8×Output Module	2×PSU (Removable)	1×DVI-I	Yes	Yes	Yes
CMSI-1616	4×Input Module	4×Output Module	2×PSU (Removable)	1×DVI-I	Yes	Yes	Yes
CMSI-88	1×Input Module	1×Output Module	1×PSU	-	Yes	Yes	Yes
CMSDI-1616	4×Input Module	4×Output Module	1×PSU	-	Yes	-	Yes

### 2. Input Modules

Model	Inputs	Outputs	Max. Resolutions (Hz)	3D	HD Audio	LAN	IR	RS-232	PoC	HDCP
CIN-8CV-5PLAY	8×CAT5e/6/7	-	4K@50/60 (4:2:0)	Yes	Yes	Yes	Yes	Yes	24V	1.x
CIN-8HS4K	8×HDMI	-	4K@50/60 (4:2:0)	Yes	Yes	-	-	-	-	1.x
CIN-8HS	8×HDMI	-	1080p@50/60	Yes	Yes	-	-	-	-	1.x
CIN-8DS	8×DVI	-	1080p@50/60	Yes	Yes	-	-	-	-	1.x
CIN-8VGA	8×VGA	-	WUXGA@60 (RB)	-	-	-	-	-	-	-
CIN-4S	4×SDI	-	SMPTE 424M/425M-A	-	-	-	-	-	-	-

### 3. Output Modules

Model	Inputs	Outputs	Max. Resolutions (Hz)	3D	HD Audio	LAN	IR	RS-232	PoC	HDCP
COUT-8CV-5PLAY	-	8×CAT5e/6/7	4K@50/60 (4:2:0)	Yes	Yes	Yes	Yes	Yes	24V	1.x
COUT-8CV-4PLAY	-	8×CAT5e/6/7	4K@50/60 (4:2:0)	Yes	Yes	-	Yes	Yes	24V	1.x
COUT-8CVL-3PLAY	-	8×CAT5e/6/7	4K@50/60 (4:2:0)	Yes	Yes	-	Yes	Yes	-	1.x
COUT-8HS4K	-	8×HDMI	4K@50/60 (4:2:0)	Yes	Yes	-	-	-	-	1.x
COUT-8HS	-	8×HDMI	1080p@50/60	Yes	Yes	-	-	-	-	1.x
COUT-8DS	-	8×DVI	1080p@50/60	Yes	Yes	-	-	-	-	1.x
COUT-4S	-	4×SDI	SMPTE 424M/425M-A	-	-	-	-	-	-	-
COUT-2H2S	-	2×HDMI 2×SDI	SMPTE 424M/425M-A	-	-	-	-	-	-	-

Note: Specifications are subject to change without notice.

## Control System Products

### 1. Control Centers

Model	Inputs	Outputs	PoE	IP Control	RS-232 Control	COM Port	Trigger	Relay	IR Blaster	IR Learner	LAN
CDPS-CS6	-	-	Yes	Yes	Yes	1	8	4	4	1	-
CDPS-CS4	-	-	-	Yes	Yes	2	8	8	8	1	4
CDPS-UC4H4HCVES	4×HDMI	4×CAT5e/6/7	-	Yes	Yes	2	8	8	8	1	4
CDPS-UC4H4HFS	4×HDMI	4×HDMI	-	Yes	Yes	2	8	8	8	1	4
CDPS-UH4H1HFS	4×HDMI 1×TOSLINK	1×HDMI 1×Speakers (Binding Posts)	-	Yes	Yes	2	4	4	5	-	-
CDPS-D2	-	-	-	Yes	Yes	6	16	12	16	-	1
CCS-D1	2×USB 2.0 (Type-A)	1×HDMI	-	Yes	Yes	4	8	4	16	-	1

### 2. Control Keypads

Model	Programmable Buttons	Wall Plate Size	PoE	IP Control	RS-232 Control	COM Port	Trigger	Relay	IR Blaster	IR Learner	LAN
CDPW-K1	15	2 Gang, UK	Yes	Yes	-	-	-	2	-	-	-
CDPW-K1S	9	1 Gang, UK	Yes	Yes	-	-	-	1	-	-	-
CDPW-K1UD	16	2 Gang, US	Yes	Yes	-	-	-	1	-	-	-
CDPW-K1US	8	1 Gang, US	Yes	Yes	-	-	-	1	-	-	-

### 3. Control Accessories

Model	Inputs	Outputs	Wall Plate Size	PoE	IP Control	RS-232 Control	COM Port	LAN
CDPS-TG1	8×Buttons	8×Trigger	1 Gang, UK	-	-	-	-	-
CDPS-RLY	-	8×PWM (10V) 8×Voltage (0~10V) 8×Relay	-	Yes	Yes	Yes	1	-
CDPS-IRL	1×IR Learner	1×IR Blaster	-	-	-	-	-	-
CMIR-882	8×IR Blaster 8×IR Extender 1×IR Blaster (Master) 1×IR Extender (Master)	8×IR Blaster 8×IR Extender 1×IR Blaster (Master) 1×IR Extender (Master)	-	-	-	Yes	-	-
CMIR-44	4×IR Extender 1×IR Extender (Master)	4×IR Blaster 1×IR Blaster (Master)	-	-	-	-	-	-
CIR-12	1×IR Extender	2×IR Blaster 1×CAT5	-	-	-	-	-	-
CIR-03	1×CAT5	3×IR Blaster	-	-	-	-	-	-
CRS-232TX	1×RS-232	1×CAT5	-	-	-	-	-	-
CRS-232RX	1×CAT5	1×RS-232	-	-	-	-	-	-

Note: Specifications are subject to change without notice.

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Cypress Technology, based in Taiwan, was founded in 1989, specialising in the design and manufacture of innovative AV and Multimedia products. Today Cypress Technology is highly recognised as a pioneer within the AV industry and offers an extensive AV product range that is now widely used throughout the AV industry internationally.

All our products are primarily designed for signal management for Home Theatre integration, AV signal distribution within Mega Stores, video production, video picture enhancement or signal format conversion, distribution and switching - in fact, it would be simpler to say Cypress Technology can always bring a solution to bridge the gap between the incompatibility of AV systems.

Since its founding Cypress Technology have always been at the very forefront of every shift in AV technological advancements, from developing and manufacturing analogue devices in the early 1990's, PC Multimedia in the late 90's, digital video in early 2000 to today's HDMI "High Definition" arena for all HDTV solutions. Cypress Technology has continually over the last 20 years, developed and manufactured on an OEM/ODM basis for many internationally renowned industry leaders, whilst also developing our own CYP Brand without compromising the interest of our clients.

Due to our extensive experience within AV technology, Cypress Technology is not only equipped to provide great flexibility and speed for designing customised products to meet our customer's requirements, but also in R & D and the continuous development and testing of the emerging HDMI technologies. Cypress Technology takes great pride in the quality of its product range and offers a reliable "After Sales Service" with timely technical support to customers' questions in the field.

We have established a worldwide network of distributors and resellers; please contact a distributor in your country, for all our product details or information. However, should you wish to contact us directly for the development of future business, please do not hesitate to do so, at [sales@cypress.com.tw](mailto:sales@cypress.com.tw).

## CYPRESS MILESTONES

- 1990** Year founded.  
Video system converters (NTSC/PAL/SECAM).
- 1992** Analog satellite receiver.
- 1994** CATV headend/modulator and demodulator.
- 1996** Video to/from PC multimedia converters, line doublers, video processors, color quad and mixers.
- 1998** Multisystem converter (VCR) and pattern generators.
- 2000** Digital video compression (MPEG-2, 1394) for video capture to USB.
- 2002** DVI to analog signal converter, DVI distribution amplifiers and switchers.
- 2004** LCD TVs and HDMI video scalars.
- 2005** HDMI distribution amplifiers, switchers, and matrixes.
- 2007** HDMI over CAT5 and wireless HDMI extenders.
- 2008** Full range of HDMI products upgraded to 1.3 specs, including video scalars.
- 2009** Go public on the OTC market.
- 2010** Full range of HDMI 1.4 products and video wall solutions.
- 2011** Ultra-slim frame video walls, 3D video processors, and professional 3G-SDI solutions.
- 2012** HDBaseT 1.0 connectivity solutions, Dolby Digital audio decoders, and professional A/V matrixes.
- 2013** 4K UHD (Ultra High-Definition) HDMI matrixes, splitters, switchers, and extenders.  
Plug-to-Go video wall control processors and HDMI seamless-switching matrixes.
- 2014** Control systems for home automation, HDMI 2.0, HDCP 2.2, and HDBaseT 2.0 products.
- 2015** HDMI 2.0a (600MHz/18Gbps) 4K UHD matrixes, splitters, and switchers.
- 2016** HDMI 2.0a (600MHz/18Gbps) 4K UHD scalars, extenders, signal generators, and cable tester.

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**HDMI**  
HIGH-DEFINITION MULTIMEDIA INTERFACE

**CHDBT**  
ASE

**DOLBY**  
DIGITAL

**dtc**  
2.0+ Digital Out

**CE**

**FC**

**UL**

**RoHS**  
COMPLIANT

**ISO 9001**  
**ISO 14001**

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