



PRODUCT PORTFOLIO 2016



www.cie-group.com

UK Main Commercial Distributor for CYP

Matrices

Audio

Extenders

Switchers & Splitters

Scalers & Converters

Other AV

ABOUT CYP

The CYP vision is simple; to deliver market leading connectivity solutions that enhance the capability of Audio Visual products in any installation environment. Our continued dedication and focus has made CYP the market leader in connectivity solutions for both systems integrators and professional installers throughout Europe.

At our core is over 25 years experience and 75 R&D engineers focused on ensuring all CYP solutions deliver the most robust and versatile performance possible using advanced firmware and the latest industry chipsets. This, in addition to our unrivalled product range and full time UK based technical support team, ensures all of our partners have complete confidence when specifying CYP in a wide range of AV installations.

ABOUT CIE-GROUP

CIE-Group is one of the industry's longest established technology providers and is the main UK commercial distributor for the full CYP product range. Providing innovative, high quality, cost effective solutions, our multi-award winning team has developed a diverse and comprehensive portfolio of products to meet the demands of the AV, commercial audio, CCTV, entertainment, communications and OEM business sectors.

More than just a distributor...

What makes CIE-Group different to other distributors and resellers?

Giving our customers all the support and advice they need to make the best professional, informed decisions on the products they specify without compromise. From simply providing detailed product information, training and advice, to UK-based service and repair facilities, assisting customer site surveys & demonstrations, to 'ready to install' full rack system design and build services; CIE-Group pride ourselves on supporting our customers - and your end clients - in achieving the very best results from the full range of products and services we provide.



www.cie-group.com/cyp

Matrices

P5

Audio

P31

Extenders

P65

Switchers & Splitters

P103

Scalers & Converters

P135

Other AV

P147

Product Index

P166

How To Order

Our Sales Office is open between the hours of **8.30am** and **5.30pm** five days a week to service your orders. Our Sales Team is waiting to provide information and support on our full product range, supported by our extensive on-line product and technical database, available 24-7. We can accept your orders by phone, email, online, fax or by post.

And now with our advanced e-commerce facility, ordering is available 24 hours a day, every days of the week at www.cie-group.com.

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Methods of Payment:

- **Credit Account** (Contact the sales office for an application form)
- **Credit or Debit Card** (Most major cards accepted online or via telephone)
- **Cheque with order** (Clearance required before goods can be released)
- **Bank Transfer**



Delivery Options:

Standard Delivery:

Orders received before 3.30pm - 1~2 working days (Registered Carrier)

Orders received post 3.30pm - 2~3 working days (Registered Carrier)

(Charges based on consignment weight)

Next Day Delivery/Next Day AM/Saturday Delivery/International:

The CIE-Group Sales Team will advise on a range of flexible options to meet your specific needs on delivery times, dates and costs.



Matrices

Featuring 4K support, HDMI2.0 and HDCP2.2 compliance and Audio matricing, our latest range of matrices are our most advanced yet. Five new models have been introduced, starting with our flagship 10 input x 10 output PUV-1082-4K22, with 6 x 8 and 4 x 6 models also offering the full range of HDBaseT functions (including transmission of HD sources over single runs of CAT5e/6/7 cables up to 100m). Included in the five new models are two HDBaseT Lite models that offer signal transmission over 60m, plus Power over HDBaseT (PoH) giving integrators the flexibility they require for any installation.

Making installation simple, all models offer 2-Way IR and IP control, allowing integrators to access and control all matrices remotely. For easy integration with third-party control systems, we provide 'free to download' drivers for Crestron, RTI, AMX and Control 4 systems. When combined with our industry-leading support and backup, you can be very confident that our range offers everything required for either residential or commercial applications.



Modular Matrices

The CYP Modular matrix series is available with a 16x16 and 32x32 chassis. These chassis utilise input and output modules, each with 8 input or output connections accordingly. It is also possible to use blanking modules on either chassis, effectively creating any modular configuration with multiples of 8 inputs and outputs, up to a full 32x32 matrix.



Select input and output modules with HDBaseT, HDBaseT LITE, HDMI, DVI and VGA technologies for easy in-built signal conversion from any input to any output module. All CYP Modular Matrices are built-to-order, tested, certified and shipped pre-configured, so when your matrix arrives on site, it is ready to go, straight out of the box.



Modules

Module Model	Description	Input	Output	4K	1080p	I/O Distance	PoC	LAN
IN-HBT5P-4K-8	8x 4K HDBaseT Module	✓		✓	✓	100m	✓	✓
IN-HDMI-4K-8	8x 4K HDMI Module	✓		✓	✓	10m		
IN-HDMI-8	8x HDMI Module	✓			✓	15m		
IN-VGA-8	8x VGA Module	✓				15m		
IN-DVI-8	8x DVI Module	✓			✓	15m		
OUT-HBT5P-4K-8	8x 4K HDBaseT Module		✓	✓	✓	100m	✓	✓
OUT-HBT4P-8	8x HDBaseT Module		✓		✓	100m	✓	
OUT-HBT3P-8	8x HDBaseT Lite Module		✓		✓	60m	✓	
OUT-HDMI-4K-8	8x 4K HDMI Module		✓	✓	✓	10m		
OUT-HDMI-8	8x HDMI Module		✓		✓	15m		
OUT-DVI-8	8x DVI Module		✓		✓	15m		

Modular Matrix Configuration Tool

To help with the specification process, we have created an online Modular Matrix Configuration Tool. Accessible via the CIE website, this useful tool enables integrators to specify their requirements and graphically build a 16x16 or 32x32 matrix using the online step-by-step wizard. A bill of parts is generated, safe in the knowledge that all components have been selected for a fully-customised matrix that CYP builds to the installers specifications.

www.cie-group.com/mymatrix



10x10 HDMI HDBaseT™ Matrix

with Audio Matricing (4K, HDCP2.2, HDMI2.0, PoH, LAN, OAR, 100m)

PUV-1082-4K22



4K 3D HDMI2.0 HDBT 5Play HDCP2.2 PoH LAN OAR

The PUV-1082-4K22 HDMI/HDBaseT Matrix supports the transmission of video (resolutions up to 4K2K@60Hz, HDCP 2.2, HDMI2.0) and multi-channel digital audio from 10 HDMI sources to 8 HDBaseT outputs and 2 independent HDMI2.0 outputs. HDBaseT outputs allow transmission via a single CAT5e/6/7 cable up to 100m, whilst the independent HDMI outputs support cable lengths of up to 10m. This matrix supports high resolution digital audio formats such as LPCM 7.1CH, Dolby TrueHD, Dolby Digital Plus, Dolby Atmos and DTS-HD Master Audio as well as 3D video content.

This matrix incorporates an independent audio matrix with 14 audio outputs and 10 audio inputs. These outputs and inputs can also be used for de-embedding HDMI audio to the audio outputs and embedding audio to the HDBaseT and HDMI outputs. The audio CAT connections, along with compatible bi-directional audio modules (PU-305BD-RX & PU-305BDA-RX) allow integration

with remote sources and remote audio zones. In addition, volume, mute, treble, bass and audio lip-sync correction control are available on all direct audio outputs. Optical Audio Return (OAR) Technology allows the optical input on the PUV-1530RX receiver to be routed back to the audio matrix.

LAN connectivity provides a 100BaseT network for smart TVs or games consoles in every zone. The matrix has a built-in pattern generator which can be used to verify the video signal on any of its 10 output ports. The Power over HDBaseT (PoH) function provides power to compatible receivers.

Control is via manual selection buttons, IR, RS-232, Telnet or Web GUI. CYP provide control drivers for all the major control systems. This unit also supports RS232 pass-through to the receivers. The PUV-1082-4K22 is designed to be used with PUV-1530RX or PUV-1510RX receivers that can utilise the PoH and LAN capabilities of the matrix.



FEATURES

- HDMI 2.0, HDCP1.4 and HDCP2.2 compliant
- Routes ten HDMI sources to ten displays using eight HDBaseT outputs and two independent HDMI outputs
- HDBaseT 5-Play™ convergence: High-Definition video and audio, 100BaseT Ethernet, PoH (Power over HDBaseT) and control (Bi-Directional IR & RS-232 pass through)
- Supported HDBaseT resolutions: VGA~WUXGA, 480i~1080p, 4K UHD@24/25/30Hz (RGB 4:4:4 & YUV 4:2:2), 4K UHD@ 60Hz (YUV 4:2:0), 4K/2K@24/25/30Hz (RGB 4:4:4 & YUV 4:2:2) and 4K/2K@ 60Hz (YUV 4:2:0) dependent upon the output display's EDID settings
- Supports resolutions up to 4K@60 (RGB 4:4:4) on HDMI output ports
- Supports automatic 4K@60 RGB 4:4:4 to YUV 4:2:0 conversion for HDBaseT outputs
- 4K/2K & 4K UHD signals can be transmitted up to 70m via CAT5e/6 and 100m via CAT6a/7
- Supports pass-through of HD audio formats: LPCM 2/5.1/7.1CH, Dolby Digital 2/5.1CH, Dolby Digital Plus, Dolby TrueHD, Dolby Atmos and DTS-HD Master Audio
- Supports audio matrix functionality enabling full audio management of the system including HDBaseT audio zone selection, and fully independent audio only zones
- Supports Digital to Analogue Conversion (DAC) and Analogue to Digital Conversion (ADC) for audio integration
- Supports on-board audio over CAT inputs and outputs for transmission up to 150m
- Supports Volume, Mute, Treble, Bass, and Audio delay for lip-sync on direct audio outputs
- Optical Audio Return (OAR)
- Advanced internal and external EDID management with 4 sets of configurable EDID settings
- Internal test pattern generation for self-testing and sink device testing. (Internal test patterns up to and including 4K signals)
- Supports HDCP repeating and CEC functions
- Control is via RS-232, remote control, on-panel control and IP Control (Telnet & Web GUI)
- 2U rack mounted design

SPECIFICATIONS

Input:	10x HDMI (10x HDMI - Uncompressed AV and Data) 8x RCA (4x Configurable Analogue Audio - Stereo (L/R)) 2x Toslink (2x Configurable Digital Audio - 2 Channel LPCM / DTS / Dolby Digital) 2x RCA (2x Configurable Digital Audio - 2 Channel LPCM / DTS / Dolby Digital) 2x RJ45 (2x Bi-directional Audio plus Proprietary Data) 9x 3.5mm Stereo mini-jack (9x Infra Red Receiver) 1x RJ45 (1x IP Control / LAN Serving) 1x 9pin Dsub (1x RS-232 Data)
Output:	8x RJ45 (8x HDBaseT - HDMI & Proprietary Data) 16x RCA (8x Mirrored HDBaseT audio - Stereo (L/R)) 8x RCA (4x Extended Audio only zones - Stereo (L/R)) 11x 3.5mm Stereo mini-jack (11x Infra Red Emitter)
Power:	24V/6.25A DC (US/EU standards, CE/FCC/UL certified)
PoH Power:	24V/6.25A DC (US/EU standards, CE/FCC/UL certified)
Dimensions:	316mm (D) x 438mm (W) x 96mm (H)
Gross Weight:	8500g
Net. Weight:	6500g

Compatible HDBaseT Receivers (RX)

PUV-1530RX

See Page 73 for specification



PUV-1510RX

See Page 77 for specification



10x10 HDMI HDBaseT™ LITE Matrix (60m) with Audio Matricing (4K, HDCP2.2, HDMI2.0, PoH, OAR) PUV-1082PL-4K22



4K 3D HDMI2.0 HDBT HDCP2.2 PoH OAR

The PUV-1082PL-4K22 HDMI/HDBaseT Matrix supports the transmission of video (resolutions up to 4K2K@60Hz, HDCP 2.2, HDMI2.0) and multi-channel digital audio from 10 HDMI sources to 8 HDBaseT outputs and 2 independent HDMI2.0 outputs. HDBaseT outputs allow transmission via a single CAT5e/6/7 cable up to 60m, whilst the independent HDMI outputs support cable lengths of up to 10m. This matrix supports high resolution digital audio formats such as LPCM 7.1CH, Dolby TrueHD, Dolby Digital Plus, Dolby Atmos and DTS-HD Master Audio as well as 3D video content.

The PUV-1082PL-4K22 matrix incorporates an independent audio matrix with 14 audio outputs and 10 audio inputs. These outputs and inputs can also be used for de-embedding HDMI audio to the audio outputs and embedding audio to the HDBaseT and HDMI outputs. The audio CAT connections, along with compatible bi-directional

audio modules (PU-305BD-RX & PU-305BDA-RX) allow integration with remote sources and remote audio zones. In addition, volume, mute, treble, bass and audio lip-sync correction control are available on all direct audio outputs. Optical Audio Return (OAR) Technology allows the optical input on the PUV-1230PL-RX receiver to be routed back to the audio matrix.

The matrix has a built-in pattern generator which can be used to verify the video signal on any of its 10 output ports. The Power over HDBaseT (PoH) function provides power to compatible receivers.

Control is via manual selection buttons, IR, RS-232, Telnet or Web GUI. CYP provide control drivers for all the major control systems. This unit also supports RS232 pass-through to the receivers. The PUV-1082PL-4K22 is designed to be used with PUV-1230PL-RX or PUV-1210PL-RX receivers that can utilise the PoH capabilities of the matrix.



FEATURES

- HDMI 2.0, HDCP1.4 and HDCP2.2 compliant
- Routes ten HDMI sources to ten displays using eight HDBaseT outputs and two independent HDMI outputs
- High-Definition video and audio, PoH (Power over HDBaseT) and control (Bi-Directional IR & RS-232 pass through)
- Supported HDBaseT resolutions: VGA--WUXGA, 480i~1080p, 4K UHD@24/25/30Hz (RGB 4:4:4 & YUV 4:2:2), 4K UHD@ 60Hz (YUV 4:2:0), 4K/2K@24/25/30Hz (RGB 4:4:4 & YUV 4:2:2) and 4K/2K@ 60Hz (YUV 4:2:0) dependent upon the output display's EDID settings
- Supports resolutions up to 4K@60 (RGB 4:4:4) on HDMI output ports
- Supports automatic 4K@60 RGB 4:4:4 to YUV 4:2:0 conversion for HDBaseT outputs
- 4K/2K & 4K UHD signals can be transmitted up to 35m via CAT5e/6 and 40m via CAT6a/7
- Supports pass-through of HD audio formats: LPCM 2/5.1/7.1CH, Dolby Digital 2/5.1CH, Dolby Digital Plus, Dolby TrueHD, Dolby Atmos and DTS-HD Master Audio
- Supports audio matrix functionality enabling full audio management of the system including HDBaseT audio zone selection, and fully independent audio only zones
- Supports Digital to Analogue Conversion (DAC) and Analogue to Digital Conversion (ADC) for audio integration
- Supports on-board audio over CAT inputs and outputs for transmission up to 150m
- Supports Volume, Mute, Treble, Bass, and Audio delay for lip-sync on direct audio outputs
- Optical Audio Return (OAR)
- Advanced internal and external EDID management with 4 sets of configurable EDID settings
- Internal test pattern generation for self-testing and sink device testing. (Internal test patterns up to and including 4K signals)
- Supports HDCP repeating and CEC functions
- Control is via RS-232, remote control, on-panel control and IP Control (Telnet & Web GUI)
- 2U rack mounted design

SPECIFICATIONS

Input:

10x HDMI (10x HDMI Uncompressed AV and Data)
 8x RCA (4x Configurable Analogue Audio - Stereo (L/R))
 2x Toslink (2x Configurable Digital Audio - Dolby Digital / DTS / 2 Channel LPCM)
 2x RCA (2x Configurable Digital Audio - 2 Channel LPCM / DTS / Dolby Digital)
 2x RJ45 (2x Bi-directional Audio plus Proprietary Data)
 9x 3.5mm Stereo mini-jack (9x Infra Red Receiver)
 1x RJ45 (1x IP Control / LAN Servicing)
 1x 9pin Dsub (1x RS-232 Data)

Output:

8x RJ45 (8x HDBaseT - HDMI & Proprietary Data)
 16x RCA (8x Mirrored HDBaseT audio - Stereo (L/R))
 8x RCA (4x Extended Audio only zones - Stereo (L/R))
 11x 3.5mm Stereo mini-jack (11x Infra Red Emitter)

Power:

24V/6.25A DC (US/EU standards, CE/FCC/UL certified)

PoC Power:

24V/6.25A PoH DC (US/EU standards, CE/FCC/UL certified)

Dimensions:

316mm (D) x 438mm (W) x 96mm (H)

Gross Weight:

8500g

Net. Weight:

6500g

Compatible HDBaseT Receivers (RX)

PUV-1230PL-RX

See Page 75 for specification



PUV-1210PL-RX

See Page 79 for specification



8x8 HDMI HDBaseT™ Matrix (100m)

5Play™ including LAN serving, 4K resolution & HDCP2.2

PU-8H8HBTE-4K22



4K 3D 5Play HDCP2.2 HDMI HDBT PoC LAN

The PU-8H8HBTE-4K22 8 by 8 HDMI Matrix over CAT5e/6/7 supports the transmission of video (resolutions up to 4K2K Full HD, HDCP 2.2) and multi-channel digital audio from 8 HDMI sources to 8 HDBaseT outputs via single CAT5e/6/7 cables up to 100m. It supports high resolution digital audio formats such as LPCM 7.1CH, Dolby TrueHD, Dolby Digital Plus and DTS-HD Master Audio as well as 3D content that can be displayed when connecting a 3D TV and 3D source. This matrix features control via manual selection buttons, IR, RS-232, Telnet or Web GUI. CYP provide control drivers for all the major control systems. This unit also supports RS232 pass-through to the receivers. The PU-8H8HBTE-4K22 is designed to be used with any of the HDBaseT receivers that can utilise the PoC and LAN capabilities of the matrix. The LAN serving capabilities of the matrix provide network connections in every zone.

SPECIFICATIONS

Input:	8x HDMI (8x Uncompressed AV and Data) 9x 3.5mm Stereo mini-jack (9x Infra Red Receiver) 1x RJ45 (1x LAN Serving / IP Control) 1x 9pin Dsub (1x RS-232 Data) 1x USB Mini B (1x Service Port Proprietary Data)
Output:	8x RJ45 (8x HDBaseT HDMI & Proprietary Data) 9x 3.5mm Stereo mini-jack (9x Infra Red Emitter)
Power:	24V/6.25A DC (US/EU standards, CE/FCC/UL certified)
PoC Power:	24V/6.25A DC (US/EU standards, CE/FCC/UL certified)
Dimensions:	438mm (W) x 249mm (D) x 88mm (H)
Gross Weight:	5700g
Net. Weight:	4370g

FEATURES

- HDCP 2.2 Compliant
- Supported resolutions VGA~WUXGA, 480i~1080p, 4K UHD@24/25/30Hz (RGB 4:4:4 & YUV 4:2:2), 4K UHD@ 60Hz (YUV 4:2:0), 4K/2K@24/25/30Hz (RGB 4:4:4 & YUV 4:2:2) and 4K/2K@ 60Hz (YUV 4:2:0) dependent upon the output display's EDID settings
- Uncompressed video/audio up to 10.2Gbps
- LPCM 7.1CH, Dolby TrueHD, Dolby Digital Plus and DTS-HD Master Audio transmission
- 4K/2K & 4K UHD signals can be transmitted up to 70m via CAT5e/6 and 100m via CAT6a/7
- 1080p signals can be transmitted up to 100m via CAT5e/6/6a/7
- PoC (Power over Cable) and LAN features are available on compatible receivers only
- Features bi-directional IR from input and output locations
- The PU-8H8HBTE-4K22 can be controlled via RS-232, remote control, on-panel control and IP Control (Telnet & Web GUI)
- 2U size design
- Supports external and internal EDID settings

COMPATIBLE RECEIVERS (RX)

PU-507RX

See Page 87
for specification



PU-507WPRX

See Page 88
for specification



8x8 HDMI HDBaseT™ LITE Matrix (60m)

with PoC, 4K resolution support, & HDCP2.2

PU-8H8HBTP-L-4K22



4K

3D

5Play

HDMI

HDBT

HDCP2.2

PoC

The 4K2K 8 by 8 HDMI Matrix over CAT5e/6/7 supports the transmission of video (resolutions up to 4K2K Full HD, HDCP 2.2), multi-channel digital audio from 8 HDMI sources to 8 HDBaseT LITE outputs via single CAT5e/6/7 cable up to 60m. The matrix is compatible with high resolution digital audio formats such as LPCM 7.1CH, Dolby TrueHD, Dolby Digital Plus and DTS-HD Master Audio as well as 3D content that can be displayed when connecting a 3D TV and 3D source.

This matrix features control via manual selection buttons, IR, RS-232, Telnet or Web GUI. CYP provide control drivers for all the major control systems. This unit also supports UART RS232 pass-through to the receivers.

The PU-8H8HBTP-L-4K22 is designed to be used with the PU-515PL-RX receiver.

SPECIFICATIONS

Input:	8x HDMI (8x Uncompressed AV and Data) 9x 3.5mm Stereo mini-jack (9x Infra Red Receiver) 1x RJ45 (1x IP Control) 1x 9pin Dsub (1x RS-232 Data) 1x USB Mini B (1x Service Port Proprietary Data)
Output:	9x 3.5mm Stereo mini-jack (9x Infra Red Emitter) 8x RJ45 (8x HDBaseT Lite HDMI & Proprietary Data)
Power:	24V/6.25A DC (US/EU standards, CE/FCC/UL certified)
PoC Power:	24V/6.25A DC (US/EU standards, CE/FCC/UL certified)
Dimensions:	438mm (W) x 249mm (D) x 88mm (H)
Gross Weight:	5700g
Net. Weight:	4370g

FEATURES

- HDCP 2.2 Compliant
- Supported resolutions VGA~WUXGA, 480i~1080p, 4K UHD@24/25/30Hz (RGB 4:4:4 & YUV 4:2:2), 4K UHD@ 60Hz (YUV 4:2:0), 4K/2K@24/25/30Hz (RGB 4:4:4 & YUV 4:2:2) and 4K/2K@ 60Hz (YUV 4:2:0) dependent upon the output display's EDID settings
- Uncompressed video/audio up to 10.2Gbps
- LPCM 7.1CH, Dolby TrueHD, Dolby Digital Plus and DTS-HD Master Audio transmission
- 4K/2K & 4K UHD signals can be transmitted up to 35m via CAT5e/6 and 40m via CAT6a/7
- 1080p signals can be transmitted up to 60m via CAT5e/6/6a/7
- PoC (Power over Cable) feature available on compatible receivers only
- Features bi-directional IR from input and output locations
- The PU-8H8HBTP-L-4K22 can be controlled via RS-232, remote control, on-panel control and IP Control (Telnet & Web GUI)
- 2U Size Design
- Supports external and internal EDID settings

COMPATIBLE RECEIVER (RX)

PU-515PL-RX

See Page 91

for specification



8x8 HDMI HDBaseT™ Matrix (100m)

5Play™ including LAN serving

PU-8H8HBTE



3D **5Play** **HDMI** **HDBT** **LAN**

The PU-8H8HBTE Matrix solution offers complete HDBaseT™ 5-Play™ convergence. Installers can switch and distribute up to 8 HDMI sources, LAN (Local Area Network), 2-Way IR, and PoC (Power over Cable) to lengths of up to 100m using CAT5e/6/7 cable infrastructure. Control of the matrix is via IP control, RS-232, IR remote, or manual selection buttons. This single box solution will enable an installer to confidently integrate an eight zone multi-room AV system. The PU-8H8HBTE is designed to be used with the PU-507RX Receiver which can utilise PoC capabilities of the matrix.

Use the LAN serving capabilities of the matrix to add internet connectivity to every zone. In addition, this matrix also features IR, RS232, IP (telnet) and web GUI control allowing users to access and control the matrix remotely and also allow additional options for integration of third-party control systems. CYP provide control drivers for control systems such as Control 4, RTI, Crestron, AMX, Control FX, and RTI. These are available at no extra cost.

SPECIFICATIONS

Input:	8x HDMI (8x HDMI Uncompressed AV and Data) 9x 3.5mm Stereo mini-jack (9x Infra Red Receiver) 1x 9pin Dsub (1x RS-232 Data) 1x RJ45 (1x LAN Serving / IP Control) 1x USB Mini B (1x Service Port - Proprietary Data)
Output:	8x RJ45 (8x HDBaseT - HDMI & Proprietary Data) 9x 3.5mm Stereo mini-jack (9x Infra Red Emitter)
Power:	24V/6.25A DC (US/EU standards, CE/FCC/UL certified)
PoC Power:	24V/6.25A DC (US/EU standards, CE/FCC/UL certified)
Dimensions:	255mm (D) x 440mm (W) x 90mm (H)
Gross Weight:	7960g
Net. Weight:	6960g

FEATURES

- Supports all v1.4 HDMI resolutions
- Supports uncompressed video/audio up to 10.2Gbps
- Common supported resolutions: HDTV: 480p, 576p, 720p, 1080i, 1080p, 1080p24; PC: VGA, SVGA, XGA, WXGA, SXGA, UXGA, WUXGA.
- HDMI, HDCP and DVI compliant
- High Definition Audio supported: Dolby TrueHD, Dolby Digital Plus and DTS-HD Master Audio plus LPCM (up to 192kHz)
- Uncompressed data transfer over single CAT cable (100m - CAT6/7; 80m - CAT5e)
- Supports third-party control systems, with IP and RS232 drivers available for: AMX, Crestron, RTI, Control 4
- Supports HDMI input up to 15m 1080p 8bit or 10m 1080p 12bit.
- Supports RS-232, 2-Way IR, Manual Selection Buttons, and HDMI CEC control pass through
- Selectable EDID settings - TV (downstream) and STD (fixed)
- Compact 2U Rack mount design
- Supports 3D signals
- Supports additional IR Control via a master (ALL) Input/Output
- Supports LAN serving to all connected zones
- Supports full IP control

COMPATIBLE RECEIVERS (RX)

PU-507RX

*See Page 87
for specification*



PU-507WPRX

*See Page 88
for specification*



8x8 HDMI HDBaseT™ LITE Matrix (60m)

with PoC

PU-8H8HTPL



3D HDMI HDBT PoC

The PU-8H8HTPL is an 8x8 HDMI HDBaseT™ Lite with PoC (power over cable) Matrix. Installers can switch and distribute up to 8 HDMI sources, and 2-Way IR to lengths of up to 60m using CAT5e/6/7 cable infrastructure. Control of the matrix is via IP, RS-232, IR remote, or manual selection buttons. This single box solution will enable an installer to confidently integrate an eight zone multi-room AV system. The PU-8H8HTPL is designed to be used with the PU-515PL-RX Receiver which enables the use of 2-Way IR control feature and which can utilise PoC capabilities of the matrix.

This matrix also features IP and RS232 control allowing users to access and control the matrix remotely and also allow additional options for integration of third-party control systems. CYP provide control drivers for control systems such as Control 4, RTI, Crestron, AMX, Control FX, and RTI. These are available at no extra cost.

SPECIFICATIONS

Input:	8x HDMI (8x Uncompressed AV and Data) 9x 3.5mm Stereo mini-jack (9x Infra Red Receiver) 1x 9pin Dsub (1x RS-232 Data) 1x RJ45 (1x IP Control) 1x USB Mini B (1x Service Proprietary Data)
Output:	8x RJ45 (8x HDBaseT Lite with PoC HDMI & Proprietary Data) 9x 3.5mm Stereo mini-jack (9x Infra Red Emitter)
Power:	24V/6.25A DC (US/EU standards, CE/FCC/UL certified)
PoC Power:	24V/6.25A DC (US/EU standards, CE/FCC/UL certified)
Dimensions:	440mm (W) x 265mm (D) x 90mm (H)
Gross Weight:	7360g
Net. Weight:	4520g

FEATURES

- Supports all v1.4 HDMI resolutions
- Supports uncompressed video/audio up to 10.2Gbps
- Common supported resolutions: HDTV: 480p, 576p, 720p, 1080i, 1080p, 1080p24; PC: VGA, SVGA, XGA, WXGA, SXGA, UXGA, WUXGA
- HDMI, HDCP and DVI compliant
- High Definition Audio supported: Dolby TrueHD, Dolby Digital Plus and DTS-HD Master Audio plus LPCM (up to 192kHz)
- Uncompressed data transfer over single CAT cable (60m via CAT5e/6/7)
- Supports HDMI input up to 15m 1080p 8bit or 10m 1080p 12bit
- Supports RS-232, 2-Way IR, Manual Selection Buttons, and HDMI CEC control pass through
- Selectable EDID settings - TV (downstream) and STD (fixed)
- Compact 2U Rack mount design
- Supports IP control
- Supports 3D signals
- Supports Power over Cable (PoC) providing power to compatible receivers
- Supports third-party control systems, with IP and RS232 drivers available for: AMX, Crestron, RTI, Control 4

COMPATIBLE RECEIVER (RX)

PU-515PL-RX
See Page 91
for specification



6x8 HDMI HDBaseT™ Matrix (100m) with Audio Matricing (4K, HDCP2.2, HDMI2.0, PoH, LAN, OAR)

PUV-662-4K22



4K **3D** **HDMI2.0** **HDBT** **5Play** **HDCP2.2** **PoH** **OAR** **LAN**

The PUV-662-4K22 HDMI/HDBaseT Matrix supports the transmission of video (resolutions up to 4K2K@60Hz, HDCP 2.2, HDMI2.0) and multi-channel digital audio from 6 HDMI sources to 6 HDBaseT outputs and 2 independent HDMI2.0 outputs. The HDBaseT outputs allow transmission via a single CAT5e/6/7 cable up to 100m, whilst the independent HDMI outputs support cable lengths of up to 10m. This matrix supports high resolution digital audio formats such as LPCM 7.1CH, Dolby TrueHD, Dolby Digital Plus, Dolby Atmos and DTS-HD Master Audio as well as 3D video content.

The PUV-662-4K22 matrix incorporates an independent audio matrix with 8 audio outputs and 4 audio inputs. These outputs and inputs can be used for de-embedding HDMI audio to feed the audio outputs and embedding this audio to the HDBaseT and HDMI outputs. In addition, volume, mute,

treble, bass and audio lip-sync correction control are available on all direct audio outputs. Optical Audio Return (OAR) Technology allows the optical input on the PUV-1530RX receiver to be routed back to the audio matrix.

LAN connectivity provides a 100BaseT network for smart TV's or games consoles in every zone. The matrix has a built-in pattern generator which can be used to verify the video signal on any of its 8 output ports. The Power over HDBaseT (PoH) function provides power to compatible receivers.

Control is via manual selection buttons, IR, RS-232, Telnet or Web GUI. CYP provide control drivers for all the major control systems. This unit also supports RS232 pass-through to the receivers.

The PUV-662-4K22 is designed to be used with PUV-1530RX or PUV-1510RX receivers that can utilise the PoH capabilities of the matrix.



FEATURES

- HDMI 2.0, HDCP1.4 and HDCP2.2 compliant
- Routes six HDMI sources to eight displays using six HDBaseT outputs and two independent HDMI outputs
- HDBaseT 5-Play™ convergence: High-Definition video and audio, 100BaseT Ethernet, PoH (Power over HDBaseT) and control (Bi-Directional IR & RS-232 pass through)
- Supported HDBaseT resolutions: VGA--WUXGA, 480i--1080p, 4K UHD@24/25/30Hz (RGB 4:4:4 & YUV 4:2:2), 4K UHD@ 60Hz (YUV 4:2:0), 4K/2K@24/25/30Hz (RGB 4:4:4 & YUV 4:2:2) and 4K/2K@ 60Hz (YUV 4:2:0) dependent upon the output display's EDID settings
- Supports resolutions up to 4K@60 (RGB 4:4:4) on HDMI output ports
- Supports automatic 4K@60 RGB 4:4:4 to YUV 4:2:0 conversion for HDBaseT outputs
- 4K/2K & 4K UHD signals can be transmitted up to 70m via CAT5e/6 and 100m via CAT6a/7
- Supports pass-through of HD audio formats: LPCM 2/5.1/7.1CH, Dolby Digital 2/5.1CH, Dolby Digital Plus, Dolby TrueHD, Dolby Atmos and DTS-HD Master Audio
- Supports audio matrix functionality enabling full audio management of the system including HDBaseT audio zone selection, and fully independent audio only zones
- Supports Digital to Analogue Conversion (DAC) and Analogue to Digital Conversion (ADC) for audio integration
- Supports Volume, Mute, Treble, Bass, and Audio delay for lip-sync on direct audio outputs
- Optical Audio Return (OAR)
- Advanced internal and external EDID management with 4 sets of configurable EDID settings
- Internal test pattern generation for self-testing and sink device testing. (Internal test patterns up to and including 4K signals)
- Supports HDCP repeating and CEC functions
- Control is via RS-232, remote control, on-panel control and IP Control (Telnet & Web GUI)
- 2U rack mounted design

SPECIFICATIONS

Input:	6x HDMI Uncompressed AV and Data (1x HDMI) 2x Analogue Stereo (L/R) (2x RCA) 1x Optical DTS / Dolby Digital / 2 Channel LPCM (1x Toslink) 1x Coaxial DTS / Dolby Digital / 2 Channel LPCM (1x RCA) 7x Infra Red Receiver (1x 3.5mm Stereo mini-jack) 7 1x RS-232 Data (1x 9pin Dsub) 1x IP Control / LAN Serving (1x RJ45) 1x Service Port Proprietary Data (1x USB Type A)
Output:	2x HDMI Uncompressed AV and Data (1x HDMI) 6x HDBaseT HDMI & Proprietary Data (1x RJ45) 6x Zone - Analogue Stereo (L/R) (2x RCA) 2x Extended - Analogue Stereo (L/R) (2x RCA) 7x Infra Red Emitter (1x 3.5mm Stereo mini-jack)
Power:	24V/6.25A DC (US/EU standards, CE/FCC/UL certified)
PoC Power:	24V/6.25A DC (US/EU standards, CE/FCC/UL certified)
Dimensions:	316mm (D) x 438mm (W) x 96mm (H)
Gross Weight:	8000g
Net. Weight:	6000g

Compatible HDBaseT Receivers (RX)

PUV-1530RX

See Page 73
for specification



PUV-1510RX

See Page 77
for specification



6x8 HDMI HDBaseT™ LITE Matrix (60m)

with Audio Matricing (4K, HDCP2.2, HDMI2.0, PoH, OAR)

PUV-662PL-4K22



4K **3D** **HDMI2.0** **HDBT** **HDCP2.2** **PoH** **OAR**

The PUV-662PL-4K22 HDMI/HDBaseT Matrix supports the transmission of video (resolutions up to 4K2K@60Hz, HDCP 2.2, HDMI2.0) and multi-channel digital audio from 6 HDMI sources to 6 HDBaseT Lite outputs and 2 independent HDMI2.0 outputs. The HDBaseT outputs allow transmission via a single CAT5e/6/7 cable up to 60m, whilst the independent HDMI outputs support cable lengths of up to 10m. This matrix supports high resolution digital audio formats such as LPCM 7.1CH, Dolby TrueHD, Dolby Digital Plus, Dolby Atmos and DTS-HD Master Audio as well as 3D video content.

The PUV-662PL-4K22 matrix incorporates an independent audio matrix with 8 audio outputs and 4 audio inputs. These outputs and inputs can be used for de-embedding HDMI audio to feed the audio outputs and embedding this audio to the HDBaseT

and HDMI outputs. In addition, volume, mute, treble, bass and audio lip-sync correction control are available on all direct audio outputs. Optical Audio Return (OAR) Technology allows the optical input on the PUV-1230PL-RX receiver to be routed back to the audio matrix.

The matrix has a built-in pattern generator which can be used to verify the video signal on any of its 8 output ports. The Power over HDBaseT (PoH) function provides power to compatible receivers.

Control is via manual selection buttons, IR, RS-232, Telnet or Web GUI. CYP provide control drivers for all the major control systems. This unit also supports RS232 pass-through to the receivers.

The PUV-662PL-4K22 is designed to be used with PUV-1230PL-RX or PUV-1210PL-RX receivers that can utilise the PoH capabilities of the matrix.



FEATURES

- HDMI 2.0, HDCP1.4 and HDCP2.2 compliant
- Routes six HDMI sources to eight displays using six HDBaseT outputs and two independent HDMI outputs
- High-Definition video and audio, PoH (Power over HDBaseT) and control (Bi-Directional IR & RS-232 pass through)
- Supported HDBaseT resolutions: VGA--WUXGA, 480i--1080p, 4K UHD@24/25/30Hz (RGB 4:4:4 & YUV 4:2:2), 4K UHD@ 60Hz (YUV 4:2:0), 4K/2K@24/25/30Hz (RGB 4:4:4 & YUV 4:2:2) and 4K/2K@ 60Hz (YUV 4:2:0) dependent upon the output display's EDID settings
- Supports resolutions up to 4K@60 (RGB 4:4:4) on HDMI output ports
- Supports automatic 4K@60 RGB 4:4:4 to YUV 4:2:0 conversion for HDBaseT outputs
- 4K/2K & 4K UHD signals can be transmitted up to 35m via CAT5e/6 and 40m via CAT6a/7
- Supports pass-through of HD audio formats: LPCM 2/5.1/7.1CH, Dolby Digital 2/5.1CH, Dolby Digital Plus, Dolby TrueHD, Dolby Atmos and DTS-HD Master Audio
- Supports audio matrix functionality enabling full audio management of the system including HDBaseT audio zone selection, and fully independent audio only zones
- Supports Digital to Analogue Conversion (DAC) and Analogue to Digital Conversion (ADC) for audio integration
- Supports Volume, Mute, Treble, Bass, and Audio delay for lip-sync on direct audio outputs
- Optical Audio Return (OAR)
- Advanced internal and external EDID management with 4 sets of configurable EDID settings
- Internal test pattern generation for self-testing and sink device testing. (Internal test patterns up to and including 4K signals)
- Supports HDCP repeating and CEC functions
- Control is via RS-232, remote control, on-panel control and IP Control (Telnet & Web GUI)
- 2U rack mounted design

SPECIFICATIONS

Input:	6x HDMI Uncompressed AV and Data (1x HDMI) 2x Analogue Stereo (L/R) (2x RCA) 1x Optical DTS / Dolby Digital / 2 Channel LPCM (1x Toslink) 1x Coaxial DTS / Dolby Digital / 2 Channel LPCM (1x RCA) 7x Infra Red Receiver (1x 3.5mm Stereo mini-jack) 1x RS-232 Data (1x 9pin Dsub) 1x IP Control (1x RJ45) 1x Service Port Proprietary Data (1x USB Type A)
Output:	2x HDMI Uncompressed AV and Data (1x HDMI) 6x HDBaseT HDMI & Proprietary Data (1x RJ45) 6x Zone - Analogue Stereo (L/R) (2x RCA) 2x Extended - Analogue Stereo (L/R) (2x RCA) 7x Infra Red Emitter (1x 3.5mm Stereo mini-jack)
Power:	24V/6.25A DC (US/EU standards, CE/FCC/UL certified)
PoC Power:	24V/6.25A DC (US/EU standards, CE/FCC/UL certified)
Dimensions:	316mm (D) x 438mm (W) x 96mm (H)
Gross Weight:	8000g
Net Weight:	6000g

Compatible HDBaseT Receivers (RX)

PU-1230PL-RX

See Page 75
for specification



PUV-1210PL-RX

See Page 79
for specification



6x2 HDMI Matrix Switch

with Audio De-Embedding (4K, HDCP2.2)

OR-HD62CD-4K22



4K **3D** **HDMI** **HDCP2.2**

The OR-HD62CD-4K22 is an advanced 4K UHD HDMI matrix switcher designed for both commercial and residential applications.

The 6 x 2 HDMI matrix switch enables 4K UHD HDCP 2.2 HDMI signals to be routed from any of the six HDMI inputs to either of the two independent HDMI outputs. Additionally a cutting edge picture-in-picture (PIP) preview mode can be selected where the unselected sources (excluding 3D and 4K UHD) are displayed in a row of 5 small windows overlaid on top of the primary selected source. In preview mode, both HDMI outputs show identical feeds. Further features include fast switching technology, on-board EDID management tool (via on screen display) and optical audio de-embedding for added flexibility of installation.

Control is via front panel buttons, IR remote control, RS232, Telnet or IP control for easy integration into control systems.

SPECIFICATIONS

Input:	6x HDMI (6x Uncompressed AV and Data) 1x 3.5mm Stereo mini-jack (1x IR Proprietary Data) 1x 9pin Dsub (1x RS-232 Data) 1x RJ45 (1x IP Control) 1x USB Type A (1x Service Port Proprietary Data)
Output:	2x HDMI (2x Uncompressed AV and Data) 2x Toslink (2x Optical 2 Channel LPCM / Dolby Digital / DTS)
Power:	5V/2.6A DC (US/EU standards, CE/FCC/UL certified)
Dimensions:	276mm (D) x 482mm (W) x 49mm (H)
Gross Weight:	4500g
Net Weight:	3200g

FEATURES

- HDCP 2.2, HDMI 1.4 and DVI compliant
- Supported resolutions VGA~WUXGA, 480i~1080p, 4K UHD@24/25/30Hz (RGB 4:4:4 & YUV 4:2:2), 4K UHD@ 60Hz (YUV 4:2:0), 4K/2K@24/25/30Hz (RGB 4:4:4 & YUV 4:2:2) and 4K/2K@ 60Hz (YUV 4:2:0) dependent upon the output display's EDID settings
- High Definition audio supported: Dolby TrueHD, Dolby Digital Plus, DTS-HD Master Audio + 7.1 Channel LPCM
- Optical de-embedding from selected HDMI input, audio sampling rate of 192kHz
- Fast switching technology
- Supports 10 bit colour, 4K UHD, 3D and 1080p signals
- Built in EDID management
- Preview mode uses Picture-in-Picture technology to display sources simultaneously on individual outputs

6x2 UHD HDMI Matrix Switch

with Audio De-Embedding

OR-HD62CD



4K 3D HDMI

The OR-HD62CD allows HDMI signals to be routed from any of the six connected HDMI sources for display on two connected HDMI displays. With fast switching technology this device dramatically improves the sync time to the connected HDMI displays over traditional switchers. In Matrix Mode, it allows any source to be routed independently to any output. An on-board EDID management tool (via on screen display) can be utilised for advanced audio and video signal management. In addition, this switcher also includes a cutting edge Picture-in-Picture (PIP) preview mode allowing the user to show 5 unselected HDMI sources in a row of small windows overlaid on top of the primary selected HDMI source video. In preview mode, both HDMI outputs show identical feeds. Further features include the ability to de-embed Hi-Definition lossless audio via a dedicated Optical output for each HDMI output, 4K resolution support, and 3D signal support.

Control is via front panel buttons, IR remote control, RS-232, Telnet or IP control for easy integration into control systems such as Control 4.

SPECIFICATIONS

Input:	6x HDMI (6x HDMI Uncompressed AV and Data) 1x 3.5mm Stereo mini-jack (1x IR Proprietary Data) 1x 9pin Dsub (1x RS-232 Data) 1x RJ45 (1x IP Control) 1x USB Type A (1x Service Port Proprietary Data)
Output:	2x HDMI (2x HDMI Uncompressed AV and Data) 2x Toslink (2x Optical 2 Channel LPCM / Dolby Digital / Dolby Digital Plus / DTS)
Power:	5V/2.6A DC (US/EU standards, CE/FCC/UL certified)
Dimensions:	440mm (W) x 290mm (D) x 40mm (H)
Gross Weight:	5160g
Net. Weight:	3020g

FEATURES

- HDMI, HDCP 1.1, DVI 1.0 compliant
- High Definition audio supported: Dolby TrueHD, Dolby Digital Plus, DTS-HD Master Audio + 7.1 Channel LPCM
- RS-232, Telnet or IP Control, IR Remote Control (supplied), Web GUI Control
- Supports audio extraction from HDMI input to Optical output, input audio sampling rate up to 192 kHz
- Ability to switch between any two sources within 1 second
- Built-in EDID Management
- Supports resolutions VGA~WUXGA, 480i~1080p, 4K UHD@24/25/30Hz (RGB 4:4:4 & YUV 4:2:2), 4K UHD@ 60Hz (YUV 4:2:0), 4K/2K@24/25/30Hz (RGB 4:4:4 & YUV 4:2:2) and 4K/2K@ 60Hz (YUV 4:2:0) dependent upon the output display's EDID settings
- Cutting edge Picture-in-Picture preview function

4x6 HDMI HDBaseT™ Matrix (100m)

with Audio Matricing (4K, HDCP2.2, HDMI2.0, PoH, LAN, OAR)

PUV-442-4K22



4K 3D HDMI2.0 HDBT 5Play HDCP2.2 PoH OAR LAN

The PUV-442-4K22 HDMI/HDBaseT Matrix supports the transmission of video (resolutions up to 4K2K@60Hz, HDCP 2.2, HDMI2.0) and multi-channel digital audio from 4 HDMI sources to 4 HDBaseT Lite outputs and 2 independent HDMI2.0 outputs. The HDBaseT outputs allow transmission via a single CAT5e/6/7 cable up to 100m, whilst the independent HDMI outputs support cable lengths of up to 10m. This matrix supports high resolution digital audio formats such as LPCM 7.1CH, Dolby TrueHD, Dolby Digital Plus, Dolby Atmos and DTS-HD Master Audio as well as 3D video content.

The PUV-442-4K22 matrix incorporates an independent audio matrix with 4 audio outputs and 6 audio inputs. These outputs and inputs can be used for de-embedding HDMI audio to feed the audio outputs and embedding this audio to the HDBaseT

and HDMI outputs. In addition, volume, mute, treble, bass and audio lip-sync correction control are available on all direct audio outputs. Optical Audio Return (OAR) Technology allows the optical input on the PUV-1230PL-RX receiver to be routed back to the audio matrix.

LAN connectivity provides a 100BaseT network for smart TVs or games consoles in every zone. The Power over HDBaseT (PoH) function provides power to compatible receivers.

Control is via manual selection buttons, IR, RS-232, Telnet or Web GUI. CYP provide control drivers for all the major control systems. This unit also supports RS232 pass-through to the receivers.

The PUV-442-4K22 is designed to be used with PUV-1530RX or PUV-1510RX receivers that can utilise the PoH capabilities of the matrix.



FEATURES

- HDMI 2.0, HDCP1.4 and HDCP2.2 compliant
- Routes four HDMI sources to six displays using six HDBaseT outputs and two independent HDMI outputs
- HDBaseT 5-Play™ convergence: High-Definition video and audio, 100BaseT Ethernet, PoH (Power over HDBaseT) and control (Bi-Directional IR & RS-232 pass through)
- Supported HDBaseT resolutions: VGA~WUXGA, 480i~1080p, 4K UHD@24/25/30Hz (RGB 4:4:4 & YUV 4:2:2), 4K UHD@ 60Hz (YUV 4:2:0), 4K/2K@24/25/30Hz (RGB 4:4:4 & YUV 4:2:2) and 4K/2K@ 60Hz (YUV 4:2:0) dependent upon the output display's EDID settings
- Supports resolutions up to 4K@60 (RGB 4:4:4) on HDMI output ports
- Supports automatic 4K@60 RGB 4:4:4 to YUV 4:2:0 conversion for HDBaseT outputs
- 4K/2K & 4K UHD signals can be transmitted up to 70m via CAT5e/6 and 100m via CAT6a/7
- Supports pass-through of HD audio formats: LPCM 2/5.1/7.1CH, Dolby Digital 2/5.1CH, Dolby Digital Plus, Dolby TrueHD, Dolby Atmos and DTS-HD Master Audio
- Supports audio matrix functionality enabling full audio management of the system including HDBaseT audio zone selection, and fully independent audio only zones
- Supports Digital to Analogue Conversion (DAC) and Analogue to Digital Conversion (ADC) for audio integration
- Supports Volume, Mute, Treble, Bass, and Audio delay for lip-sync on direct audio outputs
- Optical Audio Return (OAR)
- Advanced internal and external EDID management with 4 sets of configurable EDID settings
- Internal test pattern generation for self-testing and sink device testing. (Internal test patterns up to and including 4K signals)
- Supports HDCP repeating and CEC functions
- Control is via RS-232, remote control, on-panel control and IP Control (Telnet & Web GUI)
- 1U rack mounted design

SPECIFICATIONS

Input:	10x HDMI - Uncompressed AV and Data (1x HDMI) 4x Configurable Analogue Audio - Stereo (L/R) (2x RCA) 2x Configurable Digital Audio - 2 Channel LPCM / DTS / Dolby Digital (1x Toslink) 2x Configurable Digital Audio - 2 Channel LPCM / DTS / Dolby Digital (1x RCA) 2x Bi-directional Audio plus Proprietary Data (1x RJ45) 9x Infra Red Receiver (1x 3.5mm Stereo mini-jack) 1x IP Control / LAN Serving (1x RJ45)
Output:	8x HDBaseT - HDMI & Proprietary Data (1x RJ45) 8x Mirrored HDBaseT audio - Stereo (L/R) (2x RCA) 4x Extended Audio only zones - Stereo (L/R) (2x RCA) 11x Infra Red Emitter (1x 3.5mm Stereo mini-jack)
Power:	24V/6.25A DC (US/EU standards, CE/FCC/UL certified)
PoC Power:	24V/6.25A DC (US/EU standards, CE/FCC/UL certified)
Dimensions:	316mm (D) x 438mm (W) x 96mm (H)
Gross Weight:	8000g
Net. Weight:	6000g

Compatible HDBaseT Receivers (RX)

PUV-1530RX

See Page 73
for specification



PUV-1510RX

See Page 77
for specification



4x4 HDBaseT LITE Matrix (60m)

with 4x PU-515PL-RX PoC Receivers, plus 2 additional independent HDMI zone outputs (total 4x6 Matrix)

PU-442PL-KIT

**3D****HDBT****5Play****HDMI****PoC****SUPPLIED WITH 4xPU-515PL-RX RECEIVERS**

This 4 by 6 HDBaseT™ Lite Matrix utilises four HDMI inputs and four HDBaseT outputs over a single CAT5e/6/7 cable (up to 60m) for each output, plus two additional HDMI outputs. All six outputs are independent allowing any source to be distributed to any output. The HDBaseT outputs feature Power over Cable (PoC) functionality and allow the user to power the supplied PU-515PL-RX receivers without the need for a separate mains power supply.

The PU-442PL-KIT supports the transmission of video (resolutions up to 1080p Full HD and 1920x1200@60Hz), PoC 2-way IR, multi-channel digital audio, and control via IR, RS-232, or Web GUI/Telnet IP. Use the IP control feature to enable users to access and control the matrix remotely and also allow additional options for integration of third-party control systems.

SPECIFICATIONS

Input:	4x HDMI (4x HDMI Uncompressed AV and Data) 5x 3.5mm Stereo mini-jack (5x Infra Red Receiver) 1x 9pin Dsub (1x RS-232 Data) 1x RJ45 (1x IP Control) 1x USB Mini B (1x Service Port - Proprietary Data)
Output:	4x RJ45 (4x HDBaseT Lite HDMI & Proprietary Data) 2x HDMI (2x HDMI Uncompressed AV and Data) 5x 3.5mm Stereo mini-jack (5x Infra Red Emitter)
Power:	24V/6.25A DC (US/EU standards, CE/FCC/UL certified)
Dimensions:	310mm (W) x 250mm (D) x 210mm (H)
Gross Weight:	4320g
Net. Weight:	3340g

FEATURES

- Supports all v1.3 HDMI resolutions
- Supports uncompressed video/audio up to 10.2Gbps
- Common supported resolutions: HDTV: 480p, 576p, 720p, 1080i, 1080p, 1080p24; PC: VGA, SVGA, XGA, WXGA, SXGA, UXGA, WUXGA.
- HDMI, HDCP and DVI compliant
- High Definition Audio supported: Dolby TrueHD, Dolby Digital Plus and DTS-HD Master Audio plus LPCM (up to 192kHz)
- Uncompressed data transfer over single CAT cable (60m - CAT5e/6/7)
- Supports HDMI input up to 15m 1080p 8bit or 10m 1080p 12bit.
- Supports RS-232, 2-Way IR, Manual Selection Buttons, and HDMI CEC control pass through
- Selectable EDID settings - TV (downstream) and STD (fixed)
- Compact 1U Rack mount design
- Supports 3D signals
- Supports additional IR Control via a master (ALL) Input/Output
- Supports full IP control
- Supplied with 4x PU-515PL-RX receivers



4x4 HDMI HDBaseT™ Matrix (100m)

with 2 simultaneous HDMI Outputs (5Play™ including PoC)

PU-424HBTE



4K 3D 5Play HDMI HDBT PoC LAN

This 4 by 4 HDMI HDBaseT™ Matrix with two additional simultaneous HDMI outputs supports the transmission of video (resolutions up to 1080p Full HD and 1920x1200@60Hz), multi-channel digital audio and control via IR, RS-232 or Web GUI/Telnet IP from four high definition sources to four HDBaseT outputs over a single CAT5e/6/7 cable (up to 100m) for each output. Output A and C have additional mirrored HDMI outputs, for added installation flexibility.

The PU-424HBTE is designed to be used with the PU-507RX Receiver which can utilise PoC capabilities of the matrix.

Use the LAN serving capabilities of the matrix to add internet connectivity to every zone. 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. CYP provide control drivers for control systems such as Control 4, RTI, Crestron, AMX, Control FX, and RTI. These are available at no extra cost.

SPECIFICATIONS

- Input:** 4x HDMI (4x HDMI Uncompressed AV and Data)
 5x 3.5mm Stereo mini-jack (5x Infra Red Receiver)
 1x 9pin Dsub (1x RS-232 Data)
 1x RJ45 (1x LAN Serving / IP Control)
 1x USB Mini B (1x Service Port - Proprietary Data)
- Output:** 4x RJ45 (4x HDBaseT - HDMI & Proprietary Data)
 2x HDMI (2x HDMI Uncompressed AV and Data)
 5x 3.5mm Stereo mini-jack (5x Infra Red Emitter)
- Power:** 24V/6.25A DC (US/EU standards, CE/FCC/UL certified)
- Dimensions:** 435mm (W) x 265mm (D) x 45mm (H)
- Gross Weight:** 4600g
- Net. Weight:** 3400g

FEATURES

- Supports all v1.3 HDMI resolutions
- Supports uncompressed video/audio up to 10.2Gbps
- Common supported resolutions: HDTV: 480p, 576p, 720p, 1080i, 1080p, 1080p24; PC: VGA, SVGA, XGA, WXGA, SXGA, UXGA, WUXGA.
- HDMI, HDCP and DVI compliant
- High Definition Audio supported: Dolby TrueHD, Dolby Digital Plus and DTS-HD Master Audio plus LPCM (up to 192kHz)
- Uncompressed data transfer over single CAT cable (100m - CAT6/7; 80m - CAT5e)
- Supports third-party control systems, with drivers available for: Control FX, AMX, Crestron, RTI, Control 4
- Supports HDMI input up to 15m 1080p 8bit or 10m 1080p 12bit.
- Supports RS-232, 2-Way IR, Manual Selection Buttons, and HDMI CEC control pass through
- Selectable EDID settings - TV (downstream) and STD (fixed)
- Compact 1U Rack mount design
- Supports 3D signals
- Supports additional IR Control via a master (ALL) Input/Output
- Supports LAN serving to all connected zones
- Supports full IP control

COMPATIBLE RECEIVERS (RX)

PU-507RX
 See Page 87
 for specification



PU-507WPRX
 See Page 88
 for specification



4x4 HDMI HDBaseT™ LITE Matrix (60m)

with 2x Mirrored HDMI outputs & Audio De-embedding

Supplied with 4x PUV-1210PL-RX Receivers (4K, HDCP2.2, PoH)

PUV-44XPL-4K22-KIT



4K 3D HDMI2.0 HDBT HDCP2.2 PoH OAR SUPPLIED WITH 4xPUV-1210PL-RX RECEIVERS

The PUV-44XPL-4K22-KIT is a HDMI/HDBaseT LITE Matrix which supports the transmission of video (resolutions up to 4K2K@60Hz, HDCP 2.2) and multi-channel digital audio from 4 HDMI sources to 4 HDBaseT LITE outputs and 2 independent HDMI outputs. HDBaseT outputs allow transmission via a single CAT5e/6/7 cable up to 60m, whilst the independent HDMI outputs support cable lengths of up to 10m. This matrix supports high resolution digital audio formats such as LPCM 7.1CH, Dolby TrueHD, Dolby Digital Plus, Dolby Atmos and DTS-HD Master Audio as well as 3D video content.

FEATURES

- HDMI, HDCP1.4 and HDCP2.2 compliant
- Routes four HDMI sources to six displays using four HDBaseT LITE outputs and two independent HDMI outputs
- Supported HDBaseT resolutions: VGA~WUXGA, 480i~1080p, 4K UHD@24/25/30Hz (RGB 4:4:4 & YUV 4:2:2), 4K UHD@ 60Hz (YUV 4:2:0), 4K/2K@24/25/30Hz (RGB 4:4:4 & YUV 4:2:2) and 4K/2K@ 60Hz (YUV 4:2:0) dependent upon the output display's EDID settings
- 4K/2K & 4K UHD signals can be transmitted up to 35m via CAT5e/6 and 60m via CAT6a/7
- Supports pass-through of HD audio formats: LPCM 2/5.1/7.1CH, Dolby Digital 2/5.1CH, Dolby Digital Plus, Dolby TrueHD, Dolby Atmos and DTS-HD Master Audio
- Supports breakout of L/R analogue audio for each HDBaseT Zones (Outputs A to D).
- Control is via RS-232, remote control, on-panel control and IP Control (Telnet & Web GUI)
- Compact 1U rack mount design
- Supplied with 4x PUV-1210PL-RX receivers (see Page 79 for specifications)

This matrix also features audio breakout whereby de-embedded analogue L/R audio outputs are provided for each of the HDBaseT zones (A to D). The Power over HDBaseT (PoH) function provides power to the supplied PUV-1210PL-RX receivers which also support 2-way IR and RS-232 pass-through.

Control is via manual selection buttons, IR, RS-232, Telnet or Web GUI. CYP provide control drivers for all the major control systems.

SPECIFICATIONS

Input:	4x HDMI Uncompressed AV and Data (1x HDMI) 5x Infra Red Receiver (1x 3.5mm Stereo mini-jack) 1x RS-232 Data (1x 9pin Dsub) 1x IP Control / LAN Serving (1x RJ45) 1x Service Port Proprietary Data (1x USB Type A)
Output:	4x HDBaseT HDMI & Proprietary Data (1x RJ45) 2x HDMI Uncompressed AV and Data (1x HDMI) 4x Zone Analogue Stereo (L/R) (2x RCA) 5x Infra Red Emitter (1x 3.5mm Stereo mini-jack)
Power:	24V/6.25A DC (US/EU standards, CE/FCC/UL certified)
PoH Power:	24V/6.25A DC (US/EU standards, CE/FCC/UL certified)
Dimensions:	316mm (D) x 438mm (W) x 96mm (H)
Gross Weight:	8500g Net. Weight: 6500g

4x4 HDBaseT™ LITE Matrix (60m)

Express Installation Kit-Supplied with 4x PU-514L-RX Receivers
PU-44XL-KIT



3D HDMI HDBT SUPPLIED WITH 4xPU-514L-RX RECEIVERS

This 4 by 4 HDMI HDBaseT™ Lite Matrix Express Installation Kit has been developed as a robust and cost effective solution at the heart of any four zone multi-room environment. Supplied complete with a HDBaseT Lite Matrix plus four PU-514L-RX receivers, the kit enables an installer to easily and confidently configure a 4-zone multi-room AV system using HDBaseT Lite technology and distribute content throughout the system over a Single CAT5e/6/7 cable infrastructure.

The Express Install Kit supports the transmission of video (resolutions up to 1080p Full HD and 1920x1200@60Hz), multi-channel digital audio, and control via IR, RS-232, or Web GUI/Telnet IP, from four

high definition sources to four HDBaseT outputs over a single CAT5e/6/7 cable (up to 60m) for each output. The PU-44XL-KIT is supplied with 4x PU-514L-RX receivers which utilise the 2-way IR control capabilities of the matrix. Utilise the USB power output from a TV as an optional way of powering the PU-514L-RX receiver unit alternative to a mains power supply.

Use the IP control feature to enable users to access and control the matrix remotely and also allow additional options for integration of third-party control systems. CYP provide control drivers for control systems such as Control 4, RTI, Crestron, AMX, and Control FX. These are available at no extra cost.

FEATURES

- Supports all v1.3 HDMI resolutions
- Supports uncompressed video/audio up to 10.2Gbps
- Common supported resolutions: HDTV: 480p, 576p, 720p, 1080i, 1080p, 1080p24; PC: VGA, SVGA, XGA, WXGA, SXGA, UXGA, WUXGA.
- HDMI, HDCP and DVI compliant
- High Definition Audio supported: Dolby TrueHD, Dolby Digital Plus and DTS-HD Master Audio plus LPCM (up to 192kHz)
- Uncompressed data transfer over single CAT cable (60m - CAT5e/6/7)
- Supports third-party control systems, with drivers available for: Control FX, AMX, Crestron, RTI, Control 4
- Supports HDMI input up to 15m 1080p 8bit or 10m 1080p 12bit.
- Supports RS-232, 2-Way IR and Manual Selection Buttons
- Selectable EDID settings - TV (downstream) and STD (fixed)
- Supports 3D signals
- Supports additional IR Control via a master (ALL) Input/Output
- Supports full IP control
- Supplied with 4x PU-514L-RX receivers (see Page 93 for specifications)

- Choose to power the PU-514L-RX via the USB output from a TV (Cable available separately - APC-USB): * Please note the performance and consistency of USB power outputs from TVs can vary and cannot be guaranteed by CYP.

SPECIFICATIONS

Input:	4x HDMI (4x HDMI Uncompressed AV and Data) 5x 3.5mm Stereo mini-jack (5x IR Receiver) 1x 9pin Dsub (1x RS-232 Data) 1x RJ45 (1x IP Control) 1x USB Mini B (1x Service Port - Proprietary Data)
Output:	4x RJ45 (4x HDBaseT Lite - HDMI & Proprietary Data) 5x 3.5mm Stereo mini-jack (5x IR Emitter)
Power:	24V/6.25A DC (US/EU standards, CE/FCC/UL certified)
Dimensions:	440mm (W) x 265mm (D) x 50mm (H)
Gross Weight:	5160g
Net Weight:	3300g

4x4 HDMI Matrix Switcher

4K, HDCP2.2, HDMI2.0

OR-44-4K22



4K

3D

HDMI2.0

HDCP2.2

This 4x4 HDMI Matrix Switcher is designed to enable the user to switch between any of the four connected HDMI sources to send video and audio to any of the four connected HDMI display. This matrix switcher fully supports 4K resolutions and is HDMI2.0 and HDCP 2.2 compliant, ensuring maximum compatibility with the latest 4K UHD

sources and displays. The unit supports all the latest features of the HDMI2.0 specification such as 4K UHD resolutions (4K2K@60Hz - YUV4:4:4), HDR (High Dynamic Range), 'Deep Color', and High Definition audio. Control is via manual selection buttons, IR, RS-232, Telnet or Web GUI.

SPECIFICATIONS

Input:	4x HDMI Uncompressed AV and Data (1x HDMI) 1x Infra Red Receiver (1x 3.5mm Stereo mini-jack) 1x RS-232 Data (1x 9pin Dsub) 1x IP Control (1x RJ45)
Output:	4x HDMI Uncompressed AV and Data (1x HDMI)
Power:	24V/3.75A DC (US/EU standards, CE/FCC/UL certified)
Dimensions:	160mm (D) x 436mm (W) x 44mm (H)
Gross Weight:	2800g
Net. Weight:	1945g

FEATURES

- HDMI2.0 and HDCP2.2 compliant
- Routes four HDMI sources to four HDMI displays
- Supports pass-through of HD audio formats: LPCM 2/5.1/7.1CH, Dolby Digital 2/5.1CH, Dolby Digital Plus, Dolby TrueHD, Dolby Atmos and DTS-HD Master Audio
- 4K UHD resolutions (4K2K@60Hz - YUV4:4:4)
- Supports HDR (High Dynamic Range) and Deep Colour



4x4 HDMI Matrix Switcher

OR-HD44S



3D HDMI

The OR-HD44S Matrix Switcher connects four HDMI sources to four displays allowing any source to be independently displayed on any screen. This matrix switcher can be controlled via the supplied remote control, RS-232, or by using the input switching buttons on the front of the device. This device is compatible to v1.3 HDMI specifications, supporting 'Deep Colour', High Definition Audio, and 3D signal compatibility.

SPECIFICATIONS

- Input:** 4x HDMI (4x HDMI Uncompressed AV and Data)
1x 9pin Dsub (1x RS-232 RS-232 Data)
1x 3.5mm Stereo mini-jack (1x IR In Infra Red Receiver)
- Output:** 4x HDMI (4x HDMI Uncompressed AV and Data)
- Power:** 5V/6A DC (US/EU standards, CE/FCC/UL certified)
- Dimensions:** 440mm (W) x 175mm (D) x 48mm (H)
- Gross Weight:** 2180g
- Net. Weight:** 1800g

FEATURES

- v1.3 HDMI, HDCP 1.1 and DVI 1.0 compliant
- 4 x 4 HDMI Matrix Switcher
- Resolutions supported: PC - VGA to UXGA; HDTV - 480i to 1080p plus 1080p24fps
- High Definition Audio supported: Dolby TrueHD, Dolby Digital Plus and DTS-HD Master Audio plus LPCM
- The HDMI input is compensated, clock / phase adjusted, and jitter eliminated so the output is a brand new standard HDMI signal
- Supports IR remote control and IR extender together with RS-232 control
- Supports 'Deep Colour' (10 & 12 bit)
- Selectable EDID settings - TV (downstream) and STD (fixed)
- Power, HDMI/DVI & HDCP plus independent output LED's indicator
- Supports 3D signals





Audio

CYP offer an unrivalled range of audio distribution solutions for professional installers. When it comes to the unique connectivity challenges faced within any installation, CYP offer real world 'get out of jail' solutions that optimise the audio performance within any AV environment.

Our comprehensive range includes amplifiers, audio format converters including digital to analogue converters (DAC's), signal splitters plus switchers, HDMI audio signal management, and solutions for sending audio signals long distances via CAT cabling infrastructure.

HDBaseT™ 2 Channel Digital AV Receiver (Repeatable)

AU-A300-HBT



ADC DAC HDMI HDBT PoC

The AU-A300-HBT is a compact 2 channel digital receiver that is perfect for providing high quality audio distribution in remote AV zones within any multi-room installation. This advanced solution can integrate local HDMI and remote HDBaseT sources from a CYP matrix, local inputs (iPod® and MP3 etc) via the stereo and digital inputs and even utilise the audio output from a TV, which is growing in popularity as a dedicated source within an AV system. The device also incorporates a HDBaseT output that can be used for creating additional HDBaseT zones or used to repeat the signal to further HDBaseT 2-Channel Digital AV Receivers.

SPECIFICATIONS

- Input:**
- 1x HDMI (1x HDMI Uncompressed AV and Data)
 - 1x RJ45 (1x HDBaseT HDMI & Proprietary Data)
 - 1x RCA (1x Coaxial 2 Channel LPCM)
 - 1x Toslink (1x Optical 2 Channel LPCM)
 - 2x RCA (1x Analogue Stereo (L/R))
 - 1x 3.5mm Stereo mini-jack (1x Analogue Stereo(L/R))
 - 1x 3.5mm Stereo mini-jack (1x Infra Red Receiver)
 - 1x 9pin Dsub (1x RS-232 Data)
 - 1x RJ45 (1x IP Control)
 - 1x RJ45 (Audio over Cat Cable)
 - 1x USB Type A (1x Service Port Proprietary Data)
- Output:**
- 4x Speaker Binding Posts (1x Speaker Level Stereo Output)
 - 1x HDMI (1x HDMI Uncompressed AV and Data)
 - 1x RJ45 (1x HDBaseT HDMI & Proprietary Data)
- Power:** 24V/3.75A DC (US/EU standards, CE/FCC/UL certified)
- Dimensions:** 215mm (W) x 150mm (D) x 50mm (H)
- Gross Weight:** 1960g
- Net. Weight:** 1640g

FEATURES

- 30W per channel digital stereo Amplifier
- Integrated HDBaseT Input and Output
- Control via remote control, RS-232 or IP (Web GUI or Telnet)
- Simultaneous audio outputs
- HDMI Audio Embedding
- Supports Digital to Analogue (DAC) and Analogue to Digital (ADC) conversion
- Compact design for remote in-zone application
- Supports PoC (Power over Cable) for connected compatible HDBaseT receivers

COMPATIBLE RECEIVERS (RX)

PU-507RX

See Page 87

for specification



PU-507WPRX

See Page 88

for specification



Integrated 2 Channel Zone Amplifier

AU-A300



ADC DAC HDMI PoC

The AU-A300 is a compact 2 channel digital amplifier that is perfect for providing high quality audio distribution into remote AV zones within any multi-room installation. This advanced solution can integrate HDMI audio outputs from a CYP matrix, local inputs (iPod® and MP3 etc) via the stereo and digital inputs and even utilise the audio output from a TV, which is growing in popularity as a dedicated source within an AV system.

SPECIFICATIONS

Input:	2x HDMI (2x HDMI Uncompressed AV and Data) 1x XLR (1x Microphone) 1x Toslink (1x Optical - 2 Channel LPCM) 1x RCA (1x Coaxial - 2 Channel LPCM) 2x RCA (1x Analogue - Stereo (L/R)) 1x 3.5mm Stereo mini-jack (1x Analogue - Stereo(L/R)) 1x RJ45 (1x IP Control) 1x 3.5mm Stereo mini-jack (1x Infra Red Receiver) 1x 9pin Dsub (1x RS-232 Data)
Output:	1x HDMI (1x HDMI Uncompressed AV and Data) 1x Toslink (1x Optical - 2 Channel LPCM) 1x RCA (1x Coaxial - 2 Channel LPCM) 2x RCA (1x Analogue - Stereo (L/R)) 4x Speaker Binding Posts (1x Speaker Level Stereo Output)
Power:	24V/4.16A DC (US/EU standards, CE/FCC/UL certified)
Dimensions:	255mm (W) x 170mm (D) x 48mm (H)
Gross Weight:	2260g
Net. Weight:	1060g

FEATURES

- 30W per channel digital stereo Amplifier
- Inputs: 2 x HDMI, 1 x L/R Stereo audio, 1 x Optical, 1 x Digital Co-Ax, 1 x 3.5mm Stereo
- XLR Microphone Input with Phantom Power
- Outputs: 1 x HDMI, 1 x Optical, 1 x Digital Co-Ax, 1 x L/R Stereo (Line Level output), Speaker Terminals
- Control via remote control, RS-232 or IP (Web GUI or Telnet)
- Simultaneous audio outputs
- Dedicated Microphone input for commercial applications
- Supports Digital to Analogue (DAC) and Analogue to Digital (ADC) conversion
- Compact design for remote application



Integrated 2 Channel Zone Amplifier (Audio Only)

AU-A50



ADC DAC

The AU-A50 is a compact 2 channel digital zone amplifier that is perfect for providing high quality audio distribution into remote AV zones within any multi-room installation.

This advanced solution can integrate digital and analogue audio signals from multiple sources, including an audio output from a TV, enabling sound re-enforcement within any zone.

SPECIFICATIONS

Input: 1x RCA (1x Coaxial 2 Channel LPCM)
1x Toslink (1x Optical 2 Channel LPCM)
2x RCA (1x Analogue Stereo (L/R))
1x 3.5mm Stereo mini-jack (1x Analogue Stereo(L/R))
1x RJ45 (1x IP Control)
1x RJ45 (Audio over Cat Cable)
1x 3.5mm Stereo mini-jack (1x Infra Red Receiver)
1x USB Type A (1x Service Port Proprietary Data)

Output: 4x Speaker Binding Posts (1x Speaker Level Stereo Output)

Power: 24V/3.75A DC (US/EU standards, CE/FCC/UL certified)

Dimensions: 215mm (W) x 150mm (D) x 50mm (H)

Gross Weight: 1680g

Net. Weight: 1380g

FEATURES

- 30W per channel digital stereo Amplifier
- Control via remote control, RS-232 or IP (Web GUI or Telnet)
- Single zone amplifier
- LCD Display
- Compact design for remote in-zone application
- Supports on-board audio over CAT inputs and outputs for transmission up to 150m



HDMI Audio De-embedder

with Dolby® Digital & DTS® Decoder (4K, HDCP2.2 & HDMI2.0)

AU-1H1DD-4K22



ADC DAC 4K 3D HDMI2.0 HDCP2.2

The AU-1H1DD-4K22 is an advanced solution for de-embedding and down-mixing audio signals from the HDMI input (up to Dolby® Digital and DTS® 2.0+Digital Out). Connect the AU-1H1DD-4K22 between the source and your display via HDMI, and select 2CH LPCM or bypass.

The digital audio outputs can be set to either 2CH LPCM or bypass. The L/R analogue outputs will always output down-mixed stereo (with audio up to Dolby® Digital and DTS® 2.0+Digital Out). This device supports the latest 4K2K resolutions, HDMI2.0 and HDCP2.2 for stunning results.

SPECIFICATIONS

- Input:** 1x HDMI (1x HDMI 2.0 (ARC) Uncompressed AV and Data)
- Output:** 1x HDMI (1x HDMI 2.0 Uncompressed AV and Data)
2x RCA (1x Analogue audio Stereo (L/R))
1x Toslink (1x Optical DTS / Dolby Digital / 2 Channel LPCM)
1x RCA (1x Coaxial Dolby Digital / DTS / 2 Channel LPCM)
- Power:** 5V/2.6A DC (US/EU standards, CE/FCC/UL certified)
- Dimensions:** 180mm (W) x 111mm (D) x 25mm (H)
- Gross Weight:** 868g
- Net. Weight:** 368g

FEATURES

- HDCP 2.2, HDMI2.0, and DVI compatible
- Built-in Dolby Digital Decoder
- Built-in DTS 2.0+Digital Out Decoder
- Integrated digital interpolator filter and Digital-to-Analog Converter (DAC)
- Supports HDTV resolutions up to 4K2K: 3840x2160@24/25/30Hz, 4096x2160@24/25/30Hz, 3840x2160@50/60Hz (YUV444) & 4096x2160@50/60 (YUV444)
- Supports simultaneous audio outputs on HDMI, analogue L/R, Coaxial and Optical
- Supports Dolby Digital sampling rates up to 48kHz
- Supports DTS 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 de-embedding the audio signal from an HDTV's ARC (Audio Return Channel) connection
- Supports up to 3m HDMI cables on input & output



HDMI Audio De-embedder (up to 7.1) with built-in Repeater (4K, HDCP2.2, HDMI2.0)

AU-11SA-4K22



4K **3D** **HDMI2.0** **HDCP2.2**

The AU-11SA-4K22 advanced digital audio decoder is designed to de-embed 2-channel or multi-channel audio from the connected HDMI input and breakout this audio to provide 7.1 analogue audio connections, plus a 5.1 optical audio output and a HDMI bypass output. This device supports bypass of high resolution digital audio formats including LPCM 7.1CH, Dolby TrueHD, Dolby Digital Plus, Dolby Atmos and DTS-HD Master Audio, and supports audio sampling rates up to 192kHz.

In addition, the AU-11SA-4K22 supports 4K video resolutions, HDMI 2.0, and HDCP 2.2 ensuring stunning results and maximum compatibility for any AV system.

SPECIFICATIONS

Input:	1x HDMI (1x HDMI 2.0 Uncompressed AV and Data)
Output:	1x HDMI (1x HDMI 2.0 Uncompressed AV and Data) 1x Toslink (1x Optical Dolby Digital / DTS / 2 Channel LPCM) 1x RCA (1x Front Left Mono) 1x RCA (1x Front Right Mono) 1x RCA (1x Front Centre Mono) 1x RCA (1x Low Frequency Effect Mono) 1x RCA (1x Right Rear Mono) 1x RCA (1x Rear Left Mono) 1x RCA (1x Rear Right Centre Mono) 1x RCA (1x Rear Left Centre Mono)
Power:	5V/2.6A DC (US/EU standards, CE/FCC/UL certified)
Dimensions:	118mm (D) x 231mm (W) x 25mm (H)
Gross Weight:	818g
Net. Weight:	620g

FEATURES

- HDMI 2.0, HDCP 2.2 and DVI compliant
- HDMI audio decoder with built in repeater
- Supports HDTV resolutions up to 4Kx2K (3840x2160@24/25/30/ 50/60 YUV_444 & 4096x2160@24/25/30/50/60 YUV_444)
- The optical output supported audio: LPCM, Dolby Digital and DTS up to 5.1
- HDMI Bypass output supported audio: Dolby True HD, Dolby Digital Plus, and DTS-HD Master Audio
- Analogue stereo audio outputs support LPCM 2 channel, 5.1 and 7.1
- Audio sampling rate up to 192 kHz
- HDMI supports high-bit-rate (HBR) audio
- Features CEC bypass function



HDMI Audio De-embedder (7.1)

with built-in Repeater

AU-11SA



3D HDMI

The AU-11SA is an advanced solution for HDMI to HDMI repeating with Audio de-embedding. It's compatible with v1.3 HDMI specifications, a cutting edge technology which defines the transfer of deep colour (12 bit) video with a high bandwidth of up to 225Mhz. Connect to source and display (HDMI), select the required audio format & output your audio format to your amplifier. This device has advanced firmware allowing audio to be de-embedded without the need to connect the HDMI display (no sink-end required).

SPECIFICATIONS

- Input:** 1x HDMI (1x HDMI Uncompressed AV and Data)
- Output:** 1x HDMI (1x HDMI Uncompressed AV and Data)
1x 3.5mm Stereo mini-jack (1x Stereo(L/R))
1x 3.5mm Stereo mini-jack (1x LowFrequencyEffect(LFE) & Front Centre(FC))
1x 3.5mm Stereo mini-jack (1x RearLeft(RL) & Rear Right(RR))
1x 3.5mm Stereo mini-jack (1x RearLeftCentre(RLC) & RearRightCentre(RRC))
1x Toslink (1x Optical DTS / Dolby Digital / 2 Channel LPCM)
- Power:** 5V/2.6A DC (US/EU standards, CE/FCC/UL certified)
- Dimensions:** 102mm (W) x 146mm (D) x 25mm (H)
- Gross Weight:** 780g
- Net. Weight:** 500g

FEATURES

- HDMI audio de-embedder with built in repeater
- Compliant with v1.3 HDMI, HDCP 1.1 and DVI 1.1 standards
- Supports un-compressed digital LPCM 7.1, 5.1 or 2 channels and compressed digital Bitstream (Dolby TrueHD, Dolby Digital Plus, and DTS-HD Master Audio) through HDMI input and output ports
- Output resolution follows input resolution. Video pass though, no scaling
- HDMI signal amplification and equalisation supporting HDMI cable distance of 10m either side of the device at full 1080p.
- Supports LPCM 7.1, 5.1 or 2 channel output through multichannel analogue output ports
- Supports digital Dolby 5.1/2 and LPCM 2 channels output through optical output
- Supports CEC bypass
- Supports 3D signals
- Supports xvYCC



HDMI Audio De-embedder (up to 5.1) with built-in Repeater (4K, HDCP2.2, HDMI2.0)

AU-11CD-4K22



4K **3D** **HDMI2.0** **HDCP2.2**

The AU-11CD-4K22 is an advanced solution for repeating HDMI with integrated Audio de-embedding, up to 5.1. Connect the AU-11CD-4K22 between your source and display via HDMI, and select the audio format required. This device supports 4K resolutions, HDMI 2.0 and HDCP 2.2 enabling flexible audio signal management from ultra high definition video signal paths. The built-in HDMI repeater function allows users to extend the transmission distance of up to 4K2K@60 resolutions a further 5m from the device HDMI output.

SPECIFICATIONS

Input: 1x HDMI (1x HDMI 2.0 Uncompressed AV and Data)
Output: 1x HDMI (1x HDMI 2.0 Uncompressed AV and Data)
1x Toslink (1x Optical 2 Channel LPCM)
2x RCA (1x Analogue audio Stereo (L/R))
Power: 5V/2.6A DC (US/EU standards, CE/FCC/UL certified)
Dimensions: 128mm (W) x 117mm (D) x 30mm (H)
Gross Weight: 595g
Net. Weight: 358g

FEATURES

- HDMI2.0, HDCP 2.2, and DVI compliant
- Supports HDTV resolutions up to 4Kx2K (3840x2160@24/25/30/ 50/60 YUV_444 & 4096x2160@24/25/30/50/60 YUV_444).
- Supports bypass of high resolution digital audio formats including LPCM 7.1CH, Dolby TrueHD, Dolby Digital Plus, Dolby Atmos and DTS-HD Master Audio
- Supports HDMI audio sampling rate up to 192 kHz
- Supports Optical S/PDIF audio sampling rate up to 192 kHz
- Supports external HDMI, Digital or Analog audio signal embeds into HDMI
- HDMI supports high-bit-rate (HBR) audio
- Supports DVI conversion with HDMI to DVI adaptor
- Supports CEC bypass
- Supports analog stereo L/R and Optical S/PDIF audio outputs



HDMI Audio De-Embedder (5.1)

with built in Repeater

AU-11CD



3D HDMI

The AU-11CD is an advanced solution for repeating HDMI with integrated Audio de-embedding, up to 5.1. Connect the AU-11CD between your source and display via HDMI, and select the audio format required.

SPECIFICATIONS

Input: 1x HDMI (1x HDMI Uncompressed AV and Data)
Output: 1x HDMI (1x HDMI Uncompressed AV and Data)
1x Toslink (1x Optical DTS / Dolby Digital / 2 Channel LPCM)
2x RCA (1x Analogue Stereo (L/R))
Power: 5V/1.2A DC (US/EU standards, CE/FCC/UL certified)
Dimensions: 90mm (W) x 85mm (D) x 35mm (H)
Gross Weight: 440g
Net. Weight: 260g

FEATURES

- Compliant with v1.3 HDMI, HDCP 1.2 and DVI 1.0
- Supports HDMI Sample Rates up to 192 kHz
- Supports Optical Sample Rate up to 48 kHz
- Supports TMDS clock frequency rate 225MHz
- Supports high-bit-rate (HBR) audio
- Supports resolutions of 1080P up to cable lengths of 10m either side of the device
- Supports built-in audio EDID switch of LPCM2, 5.1/7.1 or Bitstream
- Supports 3D signals



HDMI Audio Embedder

with built-in Repeater (4K, HDCP2.2, HDMI2.0)

AU-11CA-4K22



4K **3D** **HDMI2.0** **HDCP2.2**

The AU-11CA-4K22 Audio Embedder lets you insert an external audio signal into any HDMI source. The device allows you to insert analogue or digital stereo and multi-channel digital surround sound signals (via Optical) to give users the capability to overcome audio issues within complex HDMI installation. The AU-11CA-4K22 also repeats the HDMI signal to allow an extended total HDMI cable range. This device supports 4K resolutions enabling flexible audio signal management into ultra high definition video signal paths.

SPECIFICATIONS

- Input:** 1x HDMI (1x HDMI Uncompressed AV and Data)
 1x 3.5mm Stereo mini-jack (1x Analogue Stereo(L/R))
 1x Toslink (1x Optical 2 Channel LPCM / Dolby Digital / DTS)
 1x USB Mini B (1x Service - Proprietary Data)
- Output:** 1x HDMI (1x HDMI Uncompressed AV and Data)
- Power:** 5V/1.2A DC (US/EU standards, CE/FCC/UL certified)
- Dimensions:** 85mm (W) x 85mm (D) x 35mm (H)
- Gross Weight:** 440g
- Net. Weight:** 260g

FEATURES

- Compliant with HDMI, HDCP 1.2 and DVI 1.0
- Supports HDMI and Optical S/PDIF audio sample rate up to 192 kHz
- Supports LPCM Stereo, DTS and Dolby Digital via Optical input
- HDMI signal amplification and equalisation supporting HDMI cable distance of 10m either side of the device at full 1080p.
- Supports resolutions VGA~WUXGA, 480i~1080p, 4K UHD@24/25/30Hz (RGB 4:4:4 & YUV 4:2:2), 4K UHD@ 60Hz (YUV 4:2:0), 4K/2K@24/25/30Hz (RGB 4:4:4 & YUV 4:2:2) and 4K/2K@ 60Hz (YUV 4:2:0) dependent upon the output display's EDID settings
- Supports 3D signals



HDMI Audio Embedder

with built in Repeater

AU-11CA



3D HDMI

The AU-11CA Audio Embedder lets you embed an external audio signal into any HDMI source. The device allows you to embed analogue or digital stereo and multi-channel digital surround sound signals (via Optical) to give users the capability to overcome audio issues within complex HDMI installation. The AU-11CA also repeats the HDMI signal to allow an extended total HDMI cable range.

SPECIFICATIONS

- Input:** 1x HDMI (1x HDMI Uncompressed AV and Data)
2x RCA (1x Analogue Stereo (L/R))
1x Toslink (1x Optical DTS / Dolby Digital / 2 Channel LPCM)
- Output:** 1x HDMI (1x HDMI Uncompressed AV and Data)
- Power:** 5V/1.2A DC (US/EU standards, CE/FCC/UL certified)
- Dimensions:** 85mm (W) x 85mm (D) x 35mm (H)
- Gross Weight:** 440g
- Net. Weight:** 260g

FEATURES

- Compliant with HDMI v1.3 , HDCP 1.2 and DVI 1.0
- Supports Optical Sample Rate up to 96 kHz
- Supports LPCM Stereo, DTS and Dolby Digital via Optical input
- Supports up to 24bit resolution digital audio
- Supports resolutions of 1080P up to cable lengths of 10m either side of the device
- Supports HDMI Sample Rates up to 192 kHz
- Supports 3D signals



Dolby®/DTS® Digital Downmixer with Digital/Analogue Audio Conversion

AU-22DD



ADC DAC

The AU-22DD is a versatile audio converter allowing users to convert analogue audio signals to digital or digital audio signals to analogue. The AU-22DD supports Dolby Digital and DTS audio downmixing, and can simultaneously output from all 3 audio formats without any signal loss, adding extra flexibility to your AV system.

SPECIFICATIONS

Input: 1x Toslink (1x Optical Dolby Digital / DTS / 2 Channel LPCM)
1x RCA (1x Coaxial Dolby Digital / DTS / 2 Channel LPCM)
2x RCA (1x Analogue Stereo (L/R))

Output: 2x RCA (1x Analogue Stereo (L/R))
1x RCA (1x Coaxial Dolby Digital / DTS / 2 Channel LPCM)
1x Toslink (1x Optical Dolby Digital / DTS / 2 Channel LPCM)

Power: 5V/1A DC (US/EU standards, CE/FCC/UL certified)

Dimensions: 85mm (W) x 97mm (D) x 35mm (H)

Gross Weight: 130g

Net Weight: 108g

FEATURES

- Embedded Dolby Digital & DTS Decoder technology for Digital downmixing
- Bi-directional Digital/Analogue Audio Converter
- Three-way conversion; Coaxial to Optical & Analogue, Optical to Coaxial & Analogue, and Analogue to Optical & Coaxial
- Integrated digital interpolator filter and Digital-to-Analogue Converter (DAC)
- Sampling rates 32 to 96 KHz
- Provides electromagnetic noise free transmission



Dolby® Digital Downmixer

with Digital/Analogue Audio Conversion

AU-11DD



ADC DAC

The AU-11DD is designed to decode and downmix Dolby Digital audio signals to stereo. All outputs are simultaneous which is excellent for multi-room audio environments where both digital and analogue zones are required.

SPECIFICATIONS

- Input:** 2x RCA (1x Analogue Stereo (L/R))
1x RCA (1x Coaxial Dolby Digital / 2 Channel LPCM)
1x Toslink (1x Optical Dolby Digital / 2 Channel LPCM)
- Output:** 2x RCA (1x Analogue Stereo (L/R))
1x RCA (1x Coaxial Dolby Digital / 2 Channel LPCM)
1x Toslink (1x Optical Dolby Digital / 2 Channel LPCM)
- Power:** 5V/1.2A DC (US/EU standards, CE/FCC/UL certified)
- Dimensions:** 95mm (W) x 85mm (D) x 35mm (H)
- Gross Weight:** 360g
- Net. Weight:** 100g

FEATURES

- Embedded Dolby Digital Decoder technology for Digital downmixing
- Supports Dolby Digital, Analogue Stereo, & LPCM Stereo signals
- Integrated digital interpolator filter and Digital-to-Analogue Converter (DAC)
- Integrated Analogue-to-Digital Converter (ADC)
- Supports Dolby Digital audio downmixing to 2-Channel Stereo audio
- Supports Dolby Digital sampling rate 48kHz
- Supports LPCM input sampling rates from 32 to 96 kHz
- Output sampling rate is adjusted to 48kHz
- Provides electromagnetic-noise-free transmission
- Supports simultaneous outputs for added signal management flexibility, where Digital outputs maintain the Dolby Digital signal



Coaxial to L/R Stereo Audio Converter (DAC) with Dolby® Digital/DTS® Decoder

AU-D5D



DAC

The AU-D5D is a digital to analogue converter (DAC) which allows the user to easily downmix digital coaxial signals to analogue stereo audio. The AU-D5D features Dolby Digital and DTS decoding allowing for seamless integration to any AV system.

SPECIFICATIONS

Input: 1x RCA (1x Coaxial Dolby Digital / DTS / 2 Channel LPCM)

Output: 2x RCA (1x Analogue Stereo (L/R))

Power: 5V/1A DC (US/EU standards, CE/FCC/UL certified)

Dimensions: 36mm (W) x 55mm (D) x 22mm (H)

Gross Weight: 70g

Net. Weight: 42g

FEATURES

- Dolby Digital and DTS downmixing
- Digital coaxial to analogue stereo audio conversion (DAC)
- Coaxial input supports DTS up to 5.1 with audio sampling rates up to 96KHz and Dolby Digital up to 5.1 with audio sampling rates of 48KHz
- Supports SPDIF bitstream 24-bit of data for the left and right channels



Optical to L/R Stereo Audio Converter (DAC) with Dolby® Digital Decoder

AU-D1D



DAC

The AU-D1D is a Dolby Digital to Analogue audio converter (DAC) which allows the user to easily convert digital Optical signals to analogue L/R Stereo for connection to any AV receiver. With audio sampling rate support up to 48 kHz (Dolby Digital)/96 kHz (LPCM) and I/O data rate support up to 24-bit, the AU-D1D provides high quality sound conversion. The Dolby Digital Decoder function guarantees that Dolby digital audio signals are downmixed to analogue stereo without loss of quality

This device is perfect for use in digital recording systems, computer audio systems or digital mixing consoles and is powered from any USB port allowing it to be used with USB equipped HDTVs, Blu-ray players or computers without the need for a separate power supply. With many of the latest generation of HDTVs now only providing an optical output, the AU-D1D allows the user to easily integrate the digital audio signal into their AV receiver.

SPECIFICATIONS

Input:	1x Toslink (1x Optical 2 Channel LPCM / Dolby Digital)
Output:	2x RCA (1x Analogue Stereo (L/R))
Power:	USB powered
Dimensions:	55mm (W) x 80mm (D) x 22mm (H)
Gross Weight:	160g
Net. Weight:	40g

FEATURES

- Supports optical digital audio signal input and conversion to L/R analogue audio signal output (DAC)
- Supports uncompressed digital LPCM stereo or Dolby Digital 5.1CH audio inputs
- Supports LPCM audio sampling rates from 32 to 96 kHz (32, 44.1, 48, 88.2 and 96 kHz).
- Supports Dolby Digital audio sampling rates of 32, 44.1 and 48 kHz
- Supports Dolby Digital audio downmixing to 2-channel audio
- Supports S/PDIF bitstream 24-bit of data for the left and right channels
- USB powered : 0.75m USB cable included



Bi-Directional Digital/Analogue Audio Converter (DAC)

AU-D9



ADC DAC

The AU-D9 is a versatile audio converter allowing users to convert analogue audio into digital or digital audio into analogue. It can simultaneously output in all 3 audio formats without any signal loss.

SPECIFICATIONS

- Input:** 1x Toslink (1x Optical DTS / Dolby Digital / 2 Channel LPCM)
1x RCA (1x Coaxial DTS / Dolby Digital / 2 Channel LPCM)
2x RCA (1x Analogue Stereo (L/R))
- Output:** 1x Toslink (1x Optical DTS / Dolby Digital / 2 Channel LPCM)
1x RCA (1x Coaxial DTS / Dolby Digital / 2 Channel LPCM)
2x RCA (1x Analogue Stereo (L/R))
- Power:** 5V/1.2A DC (US/EU standards, CE/FCC/UL certified)
- Dimensions:** 95mm (W) x 85mm (D) x 35mm (H)
- Gross Weight:** 420g
- Net. Weight:** 200g

FEATURES

- Bi-directional Digital/Analogue Audio Converter
- Three-way conversion; Coaxial to Optical & Analogue, Optical to Coaxial & Analogue, and Analogue to Optical & Coaxial
- Integrated digital interpolator filter and Digital-to-Analogue Converter (DAC)
- Supports 2 phono stereo, digital co-axial and digital optical signal inputs.
- Supports sample rates from 16 to 100kHz
- Simultaneously outputs digital coaxial, digital optical and 2 phono stereo audio signals
- Provides electromagnetic-noise-free transmission



Digital Audio to Stereo Audio Converter (DAC) - 192kHz

AU-D3-192



DAC

The AU-D3-192 is designed to convert either Coaxial or Optical signals from a digital stereo signal to analogue stereo audio. With an advanced 192kHz sampling rate, this unit is particularly useful for enhancing sound reproduction when connecting digital sources to analogue amplifiers.

SPECIFICATIONS

Input:	1x RCA (1x Coaxial 2 Channel LPCM) 1x Toslink (1x Optical 2 Channel LPCM)
Output:	2x RCA (1x Analogue Stereo (L/R))
Power:	5V/1.2A DC (US/EU standards, CE/FCC/UL certified)
Dimensions:	42mm (W) x 57mm (D) x 25mm (H)
Gross Weight:	220g
Net. Weight:	140g

FEATURES

- Digital Audio to Left/Right Stereo Audio Converter (DAC) with improved 192kHz sample rate for enhanced sound reproduction
- Integrated digital interpolator filter
- Supports digital audio signal (Coaxial/Toslink) input and analogue audio signal (L/R) output
- Accepts uncompressed digital stereo audio input
- Accepts 16 or 24bit: 32, 44.1, 48, 88.2, 96, 176.4 and 192kHz sample rates



Analogue to Digital Audio Converter

AU-D4



ADC

The AU-D4 is designed to convert analogue stereo audio to Digital Coaxial and Optical (Toslink) outputs simultaneously.

SPECIFICATIONS

Input:	2x RCA (1x Analogue Stereo (L/R))
Output:	1x RCA (1x Coaxial 2 Channel LPCM) 1x Toslink (1x Optical 2 Channel LPCM)
Power:	5V/1.2A DC (US/EU standards, CE/FCC/UL certified)
Dimensions:	45mm (W) x 45mm (D) x 25mm (H)
Gross Weight:	220g
Net. Weight:	160g

FEATURES

- Analogue to Digital Audio Converter (ADC)
- Uncompressed 2-channel LPCM digital audio signal output
- Compatible with cable lengths of 5m either side of the device
- Output sampling rate: 48kHz
- Electromagnetic noise-free transmission



Digital Audio Coaxial to Toslink Converter

AU-D2



ADC DAC

The AU-D2 is a versatile digital audio converter, either coaxial to optical or optical to coaxial. Simply select one of the digital audio inputs for two identical audio signals in both output formats.

SPECIFICATIONS

- Input:** 1x RCA (1x Coaxial DTS / Dolby Digital / 2 Channel LPCM)
1x Toslink (1x Optical DTS / Dolby Digital / 2 Channel LPCM)
- Output:** 1x RCA (1x Coaxial DTS / Dolby Digital / 2 Channel LPCM)
1x Toslink (1x Optical DTS / Dolby Digital / 2 Channel LPCM)
- Power:** 5V/1.2A DC (US/EU standards, CE/FCC/UL certified)
- Dimensions:** 58mm (W) x 46mm (D) x 24mm (H)
- Gross Weight:** 220g
- Net. Weight:** 160g

FEATURES

- Digital Audio Coaxial/Optical bi-directional Converter
- Two-way conversion; Coaxial to Optical or Optical to Coaxial
- Re-clocking function enables the use of extended cable distances
- Inputs accept audio signals from 2-channel PCM to 5.1. Output signal follows input signal
- Select between input ports, and distribute the audio signal to both Coaxial and Optical output ports simultaneously



4-Way Optical Audio Switcher

with IR remote

AU-D41



IR REMOTE CONTROL

Optical

The AU-D41 Optical Audio Switcher has four optical inputs and one optical output. This device allows users with up to four optical sources, the ability to switch between sources whilst connected to one output display or amplifier. All signals are bypassed without delay. This device has 'last memory function' and an IR remote control for convenient use.

SPECIFICATIONS

Input: 4x Toslink (4x Optical DTS / Dolby Digital / 2 Channel LPCM)

Output: 1x Toslink (1x Optical DTS / Dolby Digital / 2 Channel LPCM)

Power: 5V/1.2A DC (US/EU standards, CE/FCC/UL certified)

Dimensions: 85mm (W) x 85mm (D) x 35mm (H)

Gross Weight: 400g

Net. Weight: 200g

FEATURES

- 4-Way Digital Optical Audio Switcher
- Optical sampling rate supports up to 192 kHz.
- Up to 24bit resolution.
- PCM2, AC3/5.1, Dolby 5.1 & DTS 5.1 pass through.
- Compatible with cable lengths of 5m either side of the device
- Supplied with IR Remote Control



2-Way Digital Optical Audio Switcher

AU-D21



Optical

The AU-D21 is an Optical (Toslink) switcher, select between two Optical (Toslink) sources to one Optical (Toslink) output & maintain a reliable and loss-less audio signal transmission.

SPECIFICATIONS

Input:	2x Toslink (2x Optical DTS / Dolby Digital / 2 Channel LPCM)
Output:	1x Toslink (1x Optical DTS / Dolby Digital / 2 Channel LPCM)
Power:	5V/1.2A DC (US/EU standards, CE/FCC/UL certified)
Dimensions:	45mm (W) x 45mm (D) x 25mm (H)
Gross Weight:	200g
Net. Weight:	140g

FEATURES

- 2-Way Digital Optical Audio Switcher
- Supports S/PDIF standard of digital audio transmission
- Compatible with cable lengths of 5m either side of the device
- Accepts uncompressed 2-channel LPCM (Linear Pulse Code Modulation) & compressed 2-channel and multi-channel Dolby and DTS audio signal
- Electromagnetic noise-free transmission



8 to 20 Digital Audio Switchable Distribution Amplifier

AU-D820S



IR Control

RS-232

Optical

The AU-D820S allows the user to switch and distribute 4 Digital Coaxial inputs and 4 Digital Optical audio inputs to 10 Digital Coaxial and 10 Digital Optical outputs. Select any audio input for distribution of the audio signal to all outputs simultaneously. Incoming audio signals are converted to allow all optical and coaxial outputs to operate simultaneously.

Supporting sampling rate up to 192kHz and audio signal up to 5.1CH, this device maximises audio distribution to multiple outputs. A typical application for this switching and distribution device is for use in retail environments such as a hi-fi store. It allows multiple audio source signals to be easily managed for demonstration of sources and amplifiers to a consumer, for example.

Control is via selection buttons on the device or via IR or RS-232.

FEATURES

- Supports 4x Coaxial + 4x Optical Inputs, and 10x Coaxial + 10x Optical outputs
- Supports LPCM 2-Channel Audio signals
- Supports up to 192kHz Sampling Rate
- Supports Dolby & DTS audio bypass

SPECIFICATIONS

Input:	4x RCA (4x Coaxial 2 Channel LPCM/Dolby Digital/DTS) 4x Toslink (4x Optical 2 Channel LPCM/Dolby Digital/DTS) 1x 3.5mm Stereo mini-jack (1x Infra Red Receiver) 1x 9pin Dsub (1x RS-232 Data)
Output:	10x RCA (10x Coaxial 2 Channel LPCM/Dolby Digital/DTS) 10x Toslink (10x Optical 2 Channel LPCM/Dolby Digital/DTS)
Power:	5V/2.6A DC (US/EU standards, CE/FCC/UL certified)
Dimensions:	438mm (W) x 130mm (D) x 45mm (H)
Gross Weight:	2500g
Net. Weight:	1580g

4-Way Digital Optical Audio Splitter

AU-D14



Optical

The AU-D14 is a digital audio splitter with one Optical (Toslink) input to four Optical (Toslink) outputs, which maintains a reliable and loss-less audio signal transmission.

SPECIFICATIONS

- Input:** 1x Toslink (1x Optical 2 Channel LPCM/Dolby Digital/ DTS)
- Output:** 4x Toslink (4x Optical 2 Channel LPCM/Dolby Digital/ DTS)
- Power:** 5V/1.2A DC (US/EU standards, CE/FCC/UL certified)
- Dimensions:** 85mm (W) x 85mm (D) x 35mm (H)
- Gross Weight:** 360g
- Net. Weight:** 100g

FEATURES

- Supports one optical input and four optical outputs
- Supports 2 Channel LPCM audio signal (sampling rate up to 192kHz)
- Supports Dolby and DTS audio signal bypass
- Supports SPDIF bandwidth from 32kHz to 192kHz
- Low power consumption



2-Way Digital Optical Audio Splitter

AU-D12



Optical

The AU-D12 is a digital audio splitter with one Optical (Toslink) input to two Optical (Toslink) outputs, which maintains a reliable and loss-less audio signal transmission.

SPECIFICATIONS

- Input:** 1x Toslink (1x Optical DTS / Dolby Digital / 2 Channel LPCM)
- Output:** 2x Toslink (2x Optical DTS / Dolby Digital / 2 Channel LPCM)
- Power:** 5V/1.2A DC (US/EU standards, CE/FCC/UL certified)
- Dimensions:** 45mm (W) x 45mm (D) x 25mm (H)
- Gross Weight:** 200g
- Net. Weight:** 140g

FEATURES

- 1 to 2 Optical (Toslink) Distribution Amplifier
- Supports S/PDIF standard of digital audio transmission
- Compatible with cable lengths of 5m either side of the device
- Accepts Uncompressed 2-channel LPCM (Linear Pulse Code Modulation) & Compressed 2-channel and multi-channel Dolby and DTS audio signal
- Electromagnetic noise-free transmission



Advanced DAC with HDMI Switching and Audio Breakout (4K, HDCP2.2, HDMI2.0)

AU-D250-4K22



ADC DAC 4K 3D HDMI2.0 HDCP2.2 USB AUDIO XLR IR Control Optical Coaxial

The AU-D250-4K22 is designed to integrate and convert both analogue and digital audio signals into any AV system. This device has an in-built sample rate converter which can upscale audio signals between 44.1kHz to 192kHz (24 bit).

With 4K resolution support, HDMI2.0 and HDCP2.2 compliance, the AU-D250-4K22 also enables switching of up to 4 HDMI sources to a single HDMI output, and allows the user to embed or de-embed audio within the HDMI signal path.

The AU-D250 not only provides a truly enhanced listening experience, but also the flexibility to manage all audio signals in your AV system.

SPECIFICATIONS

Input: 1x 3.5mm Stereo mini-jack (1x Line in Stereo (L/R))
4x HDMI (4x HDMI 2.0 Uncompressed AV and Data)
1x Toslink (1x Optical 2 Channel LPCM)
1x RCA (1x Coaxial 2 Channel LPCM)
1x USB Type B (1x USB (2.0) Audio)

Output: 1x 3.5mm Stereo mini-jack (1x Headphone out Stereo (L/R))
1x HDMI (1x HDMI 2.0 Uncompressed AV and Data)
1x RCA (1x Coaxial 2 Channel LPCM)
1x Toslink (1x Optical 2 Channel LPCM)
2x RCA (1x Analogue audio Stereo (L/R))
2x XLR (1x Analogue Stereo (Balanced))

Power: 5V/3A DC (US/EU standards, CE/FCC/UL certified)

Dimensions: 154mm (D) x 223mm (W) x 48mm (H)

Gross Weight: 1480g

Net. Weight: 870g

FEATURES

- HDMI2.0, HDCP 2.2 and DVI compatible
- Supported resolutions VGA~WUXGA, 480i~1080p, 4K UHD@24/25/30Hz (RGB 4:4:4 & YUV 4:2:2), 4K UHD@ 60Hz (YUV 4:2:0), 4K/2K@24/25/30Hz (RGB 4:4:4 & YUV 4:2:2) and 4K/2K@ 60Hz (YUV 4:2:0) dependent upon the output display's EDID settings
- Audio format conversion
- Professional analogue signal handling and conversion between balanced and unbalanced output signals
- Easy integration of USB, HDMI, L/R Stereo, Digital Optical and Coaxial sources onto speakers or headphones (6.35mm Jack)
- HDMI bypass function including the ability to embed and de-embed audio
- Analogue to Digital conversion (ADC)
- Digital to Analogue conversion (DAC)
- Digital inputs can be SRC to 44.1, 48, 88.2, 96, 176.4, 192 and 384kHz via DSP Engine
- Supports Analogue L/R input/output, XLR, and 6.3mm headphone outputs
- HDMI Audio output can either output the incoming embedded HDMI (Bypass Mode) or insert the selected audio signal (Ext Audio Mode)
- Supplied with IR Remote Control



IP Audio Controller

AU-IP21



IP Control

Optical

The AU-IP21 has the choice of optical or analogue stereo inputs, outputting to analogue L/R with the choice of mono or stereo. Telnet and Web GUI control provide remote control over a network. The Web GUI input labels can be edited allowing the user to customize the interface. Ideal for adding remote volume control to amplification systems.

SPECIFICATIONS

Input: 1x Toslink (1x 2 Channel LPCM)
2x RCA (1x Stereo (L/R))
1x USB Type A (1x Service Proprietary Data)
1x RJ45 (1x Control Proprietary Data)

Output: 2x RCA (1x Stereo (L/R))

Power: 5V/2.6A DC (US/EU standards, CE/FCC/UL certified)

Dimensions: 82mm (W) x 55mm (D) x 22mm (H)

Gross Weight: 642g

Net. Weight: 342g

FEATURES

- Supports optical input sampling rate up to 192kHz
- Supports Optical & analogue L/R inputs to analogue L/R output
- Support Stereo out or Mono out
- Support Volume control by Telnet or WebGUI
- Single button source selection
- Editable source labels in Web GUI



HDMI to Stereo Audio (2 Phono)

with ARC Extractor

AU-1HARC



3D HDMI

The AU-1HARC is designed to extract the audio signal from any ARC (Audio Return Channel) enabled HDTV and convert it to a line-level analogue stereo signal.

This device is perfect for use with HDTVs with no dedicated audio output allowing the audio to be extracted from the ARC enabled HDMI connection and sent to a non-HDMI equipped amplifier, AVR, or active speakers.

It supports HDMI audio sampling rates up to 192 kHz and provides an analogue 2-channel stereo output using the integrated DAC (Digital to Analogue Converter).

SPECIFICATIONS

- Input:** 1x HDMI [1x HDMI - ARC channel only Uncompressed AV and Data]
- Output:** 2x RCA [1x Analogue Stereo (L/R)]
- Power:** 5V/2.6A DC (US/EU standards, CE/FCC/UL certified)
- Dimensions:** 55mm [W] x 80mm [D] x 20mm [H]
- Gross Weight:** 220g
- Net. Weight:** 60g

FEATURES

- Compliant with HDMI v1.3, HDCP 1.2 and DVI 1.0
- Supports Optical Sample Rate up to 96 kHz
- Supports LPCM Stereo, DTS and Dolby Digital via Optical input
- Supports up to 24bit resolution digital audio
- Supports resolutions of 1080P up to cable lengths of 10m either side of the device
- Supports HDMI Sample Rates up to 192 kHz
- Supports 3D signals



Adjustable Stereo Lip Sync Corrector

AU-D18



The AU-D18 analogue stereo Lip Sync Corrector is a small device for correcting audio lip sync issues. This solution features a manually adjustable timing selector dial which can be adjusted so that the users may fine tune the timing of the audio so that it is in sync with the video signal, overcoming any annoying sound mismatch to the display or amplifier.

SPECIFICATIONS

- Input:** 2x RCA (1x Analogue Stereo (L/R))
- Output:** 2x RCA (1x Analogue Stereo (L/R))
- Power:** 5V/1.2A
DC (US/EU standards, CE/FCC/UL certified)
- Dimensions:** 45mm (W) x 45mm (D) x 25mm (H)
- Gross Weight:** 220g
- Net. Weight:** 140g

FEATURES

- Lip Sync corrector with adjustable delay between 0 & 300ms
- Sample Rate: 48 kHz
- Compatible with a 2 Phono stereo audio signal
- Up to 24 bit audio resolution
- Adjust analogue audio signal timing to compensate for video signal delays in AV systems



Digital Audio over CAT5e/6 Extender Transmitter/Receiver Set

PU-304-KIT



Optical

Coaxial

The PU-304-KIT is designed to send digital audio signals over 150m over CAT5e/6 cable infrastructure. This device supports both Coaxial and Optical signals and can transmit these signals up to 150m. The PU-304-KIT can be powered using a USB cable or the supplied PSU adaptor for added flexibility in a compact design. Digital S/PDIF signals are supported up to a sample rate of 96KHz, and support for Stereo and Multichannel digital audio (LPCM, DTS, Dolby Digital, Dolby Digital Plus) is also provided.

FEATURES

- Supports Coaxial or Optical digital audio SPDIF signals.
- Supports Stereo and Multichannel digital audio (LPCM, DTS, Dolby Digital, Dolby Digital Plus).
- Supports sample rate up to 96kHz.
- Dual transmission 1 x Coaxial and 1 x Optical
- Signals can be extended over single CAT5e/ CAT6 up to 150m

SPECIFICATIONS

Input:	(PU-304RX) 1x RJ45 (1x Digital Audio Proprietary Data) (PU-304TX) 1x RCA (1x Coaxial 2 Channel LPCM / DTS / Dolby Digital / Dolby Digital Plus) 1x Toslink (1x Optical 2 Channel LPCM / DTS / Dolby Digital / Dolby Digital Plus)
Output:	(PU-304RX) 1x RCA (1x Coaxial 2 Channel LPCM / DTS / Dolby Digital / Dolby Digital Plus) 1x Toslink (1x Optical 2 Channel LPCM / DTS / Dolby Digital / Dolby Digital Plus) (PU-304TX) 1x RJ45 (1x Digital Audio Proprietary Data)
Power:	5V/1A USB DC (US/EU standards, CE/FCC/UL certified)
Dimensions:	(PU-304RX) 55mm (W) x 85mm (D) x 22mm (H) (PU-304TX) 55mm (W) x 85mm (D) x 22mm (H)
Gross Weight:	380g
Net. Weight:	(PU-304RX) 60g (PU-304TX) 60g



Bi-Directional Digital Audio over Single CAT Transmitter

PU-305BD-TX



RS-232

Bi-Directional Audio

PoC

Optical

The PU-305BD-TX transmitter is designed to send digital audio signals up to 300m over CAT5e/6 cable infrastructure. This device is Bi-Directional and supports Digital Optical signals allowing transmission up to 300m at 96KHz sample rate, or 100m at 192KHz sample rate. This extender set also supports RS-232 signals over the same CAT5e/6 cable. The PU-305BD-TX can be powered at either end using the supplied PSU adaptor for added flexibility. Digital audio signals are supported up to a sample rate of 192Khz, and support for LPCM Stereo and Multichannel digital audio (LPCM, DTS, Dolby Digital, Dolby Digital Plus) is also provided.

The PU-305BD-TX is designed to work with the PU-305BD-RX receiver or the PU-305BDA-RX analogue receiver.

The PU-305BD-KIT is perfect for multi-room AV systems where the optical audio from a HDTV or amplifier can be routed back to a rack matrix for further distribution throughout a wider multi-room AV system.

SPECIFICATIONS

Input:	1x Toslink (1x Optical Toslink DTS / Dolby Digital / 2 Channel LPCM / Dolby Digital Plus) 1x 9pin Dsub (1x RS-232 Data)
Output:	1x Toslink (1x Optical DTS / Dolby Digital / 2 Channel LPCM / Dolby Digital Plus) 1x RJ45 (1x Digital Audio Proprietary Data)
Power:	12V/1.25A DC (US/EU standards, CE/FCC/UL certified) Bi-directional PoC
Dimensions:	75mm (W) x 80mm (D) x 25mm (H)
Gross Weight:	440g
Net. Weight:	160g

FEATURES

- Supports Optical S/PDIF Input & Output, plus RS-232
- Supports up to 24bit 192kHz audio signals
- Supports 192kHz audio up to 100m and 96kHz or lower audio up to 300m
- Supports LPCM, DTS, Dolby Digital and Dolby Digital Plus signals
- Supports PoC (Power over Cable) via a single PSU which can be connected at either end of the extender set



Bi-Directional Digital Audio over Single CAT Receiver

PU-305BD-RX



RS-232

Bi-Directional Audio

PoC

Optical

The PU-305BD-RX is designed to receive digital audio signals up to 300m over CAT5e/6 cable infrastructure. This device is Bi-Directional and supports Digital Optical signals allowing transmission up to 300m at 96KHz sample rate, or 100m at 192KHz sample rate. This extender set also supports RS-232 signals over the same CAT5e/6 cable. The PU-305BD-RX can be powered at either end using the supplied PSU adaptor for added flexibility. Digital audio signals are supported up to a sample rate of 192Khz, and support for LPCM Stereo and Multichannel digital audio (LPCM, DTS, Dolby Digital, Dolby Digital Plus) is also provided.

The PU-305BD-RX is designed to work with the PU-305BD-TX receiver or the PU-305BDA-TX analogue transmitter.

The PU-305BD-KIT is perfect for multi-room AV systems where the optical audio from a HDTV or amplifier can be routed back to a rack matrix for further distribution throughout a wider multi-room AV system.

FEATURES

- Supports Optical S/PDIF Input & Output, plus RS-232
- Supports up to 24bit 192kHz audio signals
- Supports 192kHz audio up to 100m and 96kHz or lower audio up to 300m
- Supports LPCM, DTS, Dolby Digital and Dolby Digital Plus signals
- Supports PoC (Power over Cable) via a single PSU which can be connected at either end of the extender set

SPECIFICATIONS

Input:	1x Toslink (1x Optical DTS / Dolby Digital / 2 Channel LPCM / Dolby Digital Plus)
Output:	1x Toslink (1x Optical DTS / Dolby Digital / 2 Channel LPCM / Dolby Digital Plus) 1x 9pin Dsub (1x RS-232 Data)
Power:	Bi-directional PoC, 12V/1.25A DC (US/EU standards, CE/FCC/UL certified)
PoC Power:	DC (US/EU standards, CE/FCC/UL certified)
Dimensions:	75mm (W) x 80mm (D) x 25mm (H)
Gross Weight:	280g
Net. Weight:	160g



Bi-Directional Analogue Audio over Single CAT Transmitter

PU-305BDA-TX



RS-232

Bi-Directional Audio

PoC

The PU-305BDA-TX is an analogue Stereo over CAT5e/6/7 Transmitter which can send and receive analogue audio signals over a single run of CAT5e/6 cable up to 300m. It has the added benefit of RS-232 pass-through allowing control of devices and the Power over Cable (PoC) function can power the receiver unit eliminating the need for a second power supply. As the unit has bi-directional capabilities, this device can also receive audio signals back from the connected receiver.

This transmitter is designed to be used together with the CYP PU-305BDA-RX Analogue Audio Receiver or the PU-305BD-RX Digital Audio Receiver. When combined with the PU-305BD-RX digital receiver, the analogue audio signal will be converted and outputted as digital audio by the receiver's built-in digital to analogue converter (DAC).

SPECIFICATIONS

Input:	2x RCA (1x Analogue Stereo (L/R)) 1x 9pin Dsub (1x RS-232 Data)
Output:	2x RCA (1x Analogue Stereo (L/R)) 1x RJ45 (1x Bi-directional Audio plus Proprietary Data)
Power:	12V/1.25A DC (US/EU standards, CE/FCC/UL certified) Bi-directional PoC
Dimensions:	100mm (W) x 110mm (D) x 25mm (H)
Gross Weight:	360g
Net. Weight:	120g

FEATURES

- Supports bi-directional transmission (in/out) of analogue audio and RS-232 pass-through
- Supports PoC (Power over Cable) via a single PSU which can be connected at either end of the extender set
- Bi-directional RS-232 control



Bi-Directional Analogue Audio over Single CAT Receiver

PU-305BDA-RX



RS-232

Bi-Directional Audio

PoC

The PU-305BDA-RX is an analogue Stereo over CAT5e/6/7 Receiver which can send and receive analogue audio signals over a single run of CAT5e/6 cable up to 300m. It has the added benefit of RS-232 pass-through allowing control of devices and the Power over Cable (PoC) function can power the receiver unit eliminating the need for a second power supply. As the unit has bi-directional capabilities, this device can also send audio signals back to the connected transmitter. This receiver is designed to be used with the PU-305BDA-TX Analogue Audio Transmitter or the PU-305BD-TX Digital Audio Transmitter. When combined with the PU-305BD-TX digital transmitter, the analogue audio signal will be converted and outputted as digital audio by the transmitter's built-in digital to analogue converter (DAC).

FEATURES

- Supports bi-directional transmission (in/out) of analogue audio and RS-232 pass-through
- Supports PoC (Power over Cable) via a single PSU which can be connected at either end of the extender set
- Bi-directional RS-232 control

SPECIFICATIONS

Input:	2x RCA (1x Analogue Stereo (L/R)) 1x RJ45 (1x Bi-directional Audio plus Proprietary Data)
Output:	2x RCA (1x Analogue Stereo (L/R)) 1x 9pin Dsub (1x RS-232 Data)
Power:	12V/1.25A DC (US/EU standards, CE/FCC/UL certified) Bi-directional PoC
Dimensions:	100mm (W) x 110mm (D) x 25mm (H)
Gross Weight:	360g
Net. Weight:	120g







Extenders

CYP solutions are designed to deliver a standard of signal distribution that provides unprecedented levels of confidence and control for the user. Our extensive range of HDMI transmitter and receiver products provide the installer with a robust solution for sending AV and control signals over long distances.

Utilising the latest technologies such as HDMI over IP and HDBaseT, our selection of extender products provide the installer with a choice of solutions to suit any installation regardless of the complexities or scale of the system.

HDMI or VGA over IP Transmitter

with USB support (4K, HDCP2.2)

IP-6000TX



4K 3D HDMI2.0 USB IP

The IP-6000TX transmitter allows you to transmit HDMI or VGA signals over CAT5e/6/7 network cable. This extender is a multi-function transmitter that supports the transmission of Ultra High-Definition signals (up to 4K2K@30Hz, YUV444) for distances up to 100m. This system is perfect for both residential and commercial installation environments.

The video and audio can be transmitted via an IP network for distances up to 100m through a single network switch. The transmission distance can be further extended up to 100m between network switches and supports Gigabit networks.

This system also features bi-directional IR pass-through, analogue line level in/out, and microphone input provide the user with variety of audio options. The USB function allows the system to act like USB hub which, when combined with the VGA input/output feature, it allows the system to be used as a KVM switch. Adding extra devices allows the user to cascade the system enabling them to extend the transmission distance without signal loss or introducing delay. Control is via On-screen Display (OSD), Telnet, IR Remote, WebGUI and RS-232 commands.

SPECIFICATIONS

Input:	1x HDMI (1x HDMI - Uncompressed AV and Data) 1x 15pin Dsub (1x VGA - RGBHV) 1x 3.5mm Stereo mini-jack (1x Analogue - Stereo(L/R)) 1x USB Type B (1x USB Hub - Proprietary Data) 1x 9pin Dsub (1x RS-232 Data)
Output:	1x RJ45 (1x IP - Encoded AV & Data stream) 1x 15pin Dsub (1x VGA bypass - RGBHV) 1x 3.5mm Stereo mini-jack (1x Analogue - Stereo(L/R)) 1x 3.5mm Stereo mini-jack (1x Infra Red Emitter)
Power:	5V/2.6A DC (US/EU standards, CE/FCC/UL certified)
Dimensions:	182mm (D) x 280mm (W) x 71mm (H)
Gross Weight:	1000g
Net. Weight:	855g

FEATURES

- HDCP 2.2, HDMI and DVI compatible
- Supports HDMI and VGA inputs and outputs
- Supports video transmission over IP up to 100m
- Supports HDTV resolutions up to 4K2K@30Hz (YUV444) or 4K2K@60Hz (YUV420)
- Supports pass-through of HD audio formats (PCM 2CH)
- Supports audio line-in for audio input to the transmitter and line output to an amplifier or AV Receiver
- Supports microphone input on the receiver unit
- Supports USB keyboard and mouse
- Control via OSD, Telnet, WebGUI, IR remote and RS-232

HDMI or VGA over IP Receiver

with USB support (4K, HDCP2.2)

IP-6000RX



4K 3D HDMI2.0 USB IP

The IP-6000RX receiver allows you to receive HDMI or VGA signals over CAT5e/6/7 network cable. This extender is a multi-function receiver that supports Ultra High-Definition signals (up to 4K2K@30Hz, YUV444) for distances up to 100m. This system is perfect for both residential and commercial installation environments.

The video and audio can be transmitted via an IP network for distances up to 100m through a single network switch. The transmission distance can be further extended up to 100m between network switches and supports Gigabit networks.

This system also features bi-directional IR pass-through, analogue line level in/out, and microphone input provide the user with variety of audio options. The USB function allows the system to act like USB hub which, when combined with the VGA input/Output feature, it allows the system to be used as a KVM switch. Adding extra devices allows the user to cascade the system enabling them to extend the transmission distance without signal loss or introducing delay. Control is via On-screen Display (OSD), Telnet, IR Remote, WebGUI and RS-232 commands.

SPECIFICATIONS

Input:	1x RJ45 (1x IP - Encoded AV & Data stream) 1x 3.5mm Stereo mini-jack (1x Microphone)
Output:	1x HDMI (1x HDMI - Uncompressed AV and Data) 1x 15pin Dsub (1x VGA - RGBHV) 1x 9pin Dsub (1x RS-232 Data) 1x 3.5mm Stereo mini-jack (1x Infra Red Emitter) 2x USB Type A (2x USB 2.0 - Proprietary Data) 2x USB Type A (2x USB 1.1 Proprietary Data)
Power:	5V/2.6A DC (US/EU standards, CE/FCC/UL certified)
Dimensions:	182mm (D) x 280mm (W) x 71mm (H)
Gross Weight:	1020g
Net. Weight:	865g

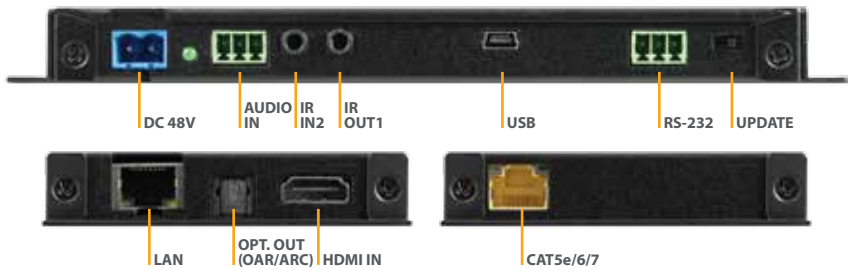
FEATURES

- HDCP 2.2, HDMI and DVI compatible
- Supports HDMI and VGA inputs and outputs
- Supports video transmission over IP up to 100m
- Supports HDTV resolutions up to 4K2K@30Hz (YUV444) or 4K2K@60Hz (YUV420)
- Supports pass-through of HD audio formats (PCM 2CH)
- Supports audio line in for audio input to the transmitter and line output to an amplifier or AV Receiver
- Supports microphone input on the receiver unit
- Supports USB keyboard and mouse
- Control via OSD, Telnet, WebGUI, IR remote and RS-232

HDBaseT™ 2.0 Slimline Transmitter (100m)

4K, HDCP2.2, HDMI2.0, PoH, LAN, OAR, USB

PUV-2010TX



4K 3D HDMI2.0 HDBT.2.0 5Play HDCP2.2 PoH OAR ARC USB

The PUV-2010TX Slimline Transmitter enables transmission of video resolutions up to 4K UHD, along with HD audio, 2-Way IR, RS-232, PoH (Power over HDBaseT), LAN, and USB data signals up to 100m. Utilising the latest HDBaseT™ 2.0 technology, this solution provides advanced signal management and dedicated audio pathways to ensure reliable results in the most demanding installation environments. In addition to the full 5-Play convergence, this device also incorporates OAR (Optical Audio Return) and ARC (Audio Return Channel) functions which enable audio from a compatible display to be routed back from the receiver unit to the transmitter. All audio, video, control, and power are transmitted simultaneously over a single CAT6a/7 cable up to 100m.

All of these features are incorporated into an ultra slim casing (less than 18mm thick), providing unrivalled flexibility and ease of installation.

SPECIFICATIONS

Input:	1x HDMI [1x HDMI Uncompressed AV and Data] 1x USB Mini B [1x USB Proprietary Data] 1x RJ45 [1x LAN Serving] 1x 3.5mm Stereo mini-jack [1x Infra Red Emitter] 1x Phoenix (3 pin) [1x Stereo (L/R) Audio Input]
Output:	1x RJ45 [1x HDBaseT 2.0 HDMI & Proprietary Data] 1x Toslink [1x Optical 2 Channel LPCM] 1x 3.5mm Stereo mini-jack [1x Infra Red Receiver] 1x Phoenix (3 pin) [1x RS-232]
Power:	48V/0.83A DC (US/EU standards, CE/FCC/UL certified)
Dimensions:	270mm (W) x 80mm (D) x 20mm (H)
Gross Weight:	450g
Net. Weight:	340g

FEATURES

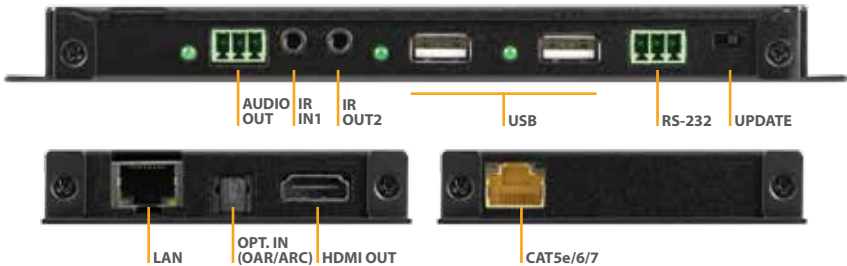
- Supports full HDBaseT™ 2.0 specification signals can be received up to a maximum distance of 100m over CAT6a/7
- HDCP 2.2, HDMI and DVI compatible
- HDBaseT 5-Play™ convergence: High-Definition video and audio, 100BaseT Ethernet, PoH (Power over HDBaseT) and control (Bi-Directional IR & RS-232 pass through)
- Supported resolutions VGA~WUXGA, 480i~1080p, 4K UHD@24/25/30Hz (RGB 4:4:4 & YUV 4:2:2), 4K UHD@ 60Hz (YUV 4:2:0), 4K/2K@24/25/30Hz (RGB 4:4:4 & YUV 4:2:2) and 4K/2K@ 60Hz (YUV 4:2:0) dependent upon the output display's EDID settings
- 4K/2K & 4K UHD signals can be transmitted up to 70m via CAT5e/6 and 100m via CAT6a/7
- Supports pass-through of HD audio formats: LPCM 2/5.1/7.1CH, Dolby Digital 2/5.1CH, Dolby Digital Plus, Dolby TrueHD, Dolby Atmos and DTS-HD Master Audio
- Optical audio return (OAR)
- Supports optical sampling rate up to 48kHz
- Audio return channel (ARC)
- Dedicated channel for analogue stereo audio transmission from the transmitter to a compatible receiver.
- Ultra slim chassis design for ease of installation
- USB Data Serving from Transmitter (single USB) to Receiver (2x USB).
- Compatible with PUV-2010RX Receiver



HDBaseT™ 2.0 Slimline Receiver (100m)

4K, HDCP2.2, HDMI2.0, PoH, LAN, OAR, USB

PUV-2010RX



4K 3D HDMI2.0 HDBT2.0 5Play HDCP2.2 PoH OAR ARC USB

The PUV-2010RX Slimline Receiver supports video resolutions up to 4K UHD, along with HD audio, 2-Way IR, RS-232, PoH (Power over HDBaseT), LAN, and USB data signals up to 100m. Utilising the latest HDBaseT™ 2.0 technology, this solution provides advanced signal management and dedicated audio pathways to ensure reliable results in the most demanding installation environments. In addition to the full 5-Play convergence, this device also incorporates OAR (Optical Audio Return) and ARC (Audio Return Channel) functions which enable audio from a compatible display to be routed back from the receiver unit to the transmitter. All audio, video, control, and power are transmitted simultaneously over a single CAT6a/7 cable up to 100m.

This system also allows the connection of any USB host, enabling a USB connection to 2 USB ports, giving the PUV-2010RX Receiver the ability to act like a USB hub.

All of these features are incorporated into an ultra slim casing (less than 18mm thick), providing unrivalled flexibility and ease of installation.

SPECIFICATIONS

Input:	1x RJ45 (1x HDBaseT 2.0 HDMI & Proprietary Data) 1x Toslink (1x Optical 2 Channel LPCM) 1x 3.5mm Stereo mini-jack (1x Infra Red Emitter)
Output:	1x HDMI (1x HDMI Uncompressed AV and Data) 2x USB Type A (2x USB Proprietary Data) 1x 3.5mm Stereo mini-jack (1x Infra Red Receiver) 1x Phoenix (3 pin) (1x Stereo (L/R) Audio Output) 1x Phoenix (3 pin) (1x RS-232)
Power:	Powered by PoH
Dimensions:	270mm (W) x 80mm (D) x 20mm (H)
Gross Weight:	450g
Net. Weight:	340g

FEATURES

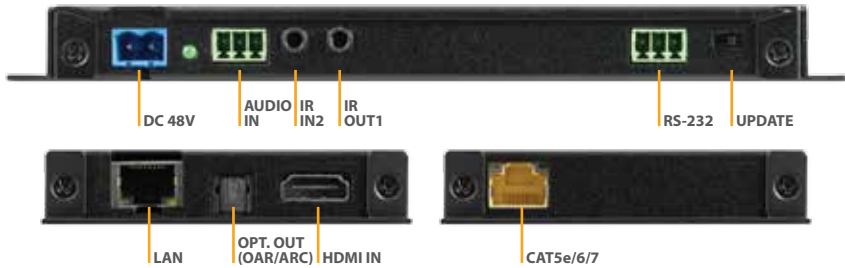
- Supports full HDBaseT™ 2.0 specification signals can be received up to a maximum distance of 100m over CAT6a/7
- HDCP 2.2, HDMI and DVI compatible
- HDBaseT 5-Play™ convergence: High-Definition video and audio, 100BaseT Ethernet, PoH (Power over HDBaseT) and control (Bi-Directional IR & RS-232 pass through)
- Supported resolutions VGA~WUXGA, 480i~1080p, 4K UHD@24/25/30Hz (RGB 4:4:4 & YUV 4:2:2), 4K UHD@60Hz (YUV 4:2:0), 4K/2K@24/25/30Hz (RGB 4:4:4 & YUV 4:2:2) and 4K/2K@60Hz (YUV 4:2:0) dependent upon the output display's EDID settings
- Supports pass-through of HD audio formats: LPCM 2/5.1/7.1CH, Dolby Digital 2/5.1CH, Dolby Digital Plus, Dolby TrueHD, Dolby Atmos and DTS-HD Master Audio
- Optical audio return (OAR)
- Supports optical sampling rate up to 48kHz
- Audio return channel (ARC)
- Dedicated channel for analogue stereo audio transmission from a compatible transmitter to receiver.
- Receiver features 2 USB 2.0 ports
- Ultra slim chassis design for ease of installation
- Compatible with PUV-2010TX Transmitter



HDBaseT™ 2.0 Slimline Transmitter (100m)

4K, HDCP2.2, HDMI2.0, PoH, LAN, OAR

PUV-2000TX



4K 3D HDMI2.0 HDBT.2.0 5Play HDCP2.2 PoH OAR ARC

The PUV-2000TX Slimline Transmitter enables transmission of video resolutions up to 4K UHD, along with HD audio, 2-Way IR, RS-232, PoH (Power over HDBaseT), and LAN signals up to 100m. Utilising the latest HDBaseT™ 2.0 technology, this solution provides advanced signal management and dedicated audio pathways to ensure reliable results in the most demanding installation environments. In addition to the full 5-Play convergence, this device also incorporates OAR (Optical Audio Return) and ARC (Audio Return Channel) functions which enable audio from a compatible display to be routed back from the receiver unit to the transmitter. All audio, video, control, and power are transmitted simultaneously over a single CAT6a/7 cable up to 100m.

All of these features are incorporated into an ultra slim casing (less than 18mm thick), providing unrivalled flexibility and ease of installation.

SPECIFICATIONS

Input:	1x HDMI (1x HDMI Uncompressed AV and Data) 1x RJ45 (1x LAN Serving) 1x 3.5mm Stereo mini-jack (1x Infra Red Receiver) 1x Phoenix (3 pin) (1x Stereo (L/R) Audio Input)
Output:	1x 3.5mm Stereo mini-jack (1x Infra Red Emitter) 1x Toslink (1x Optical 2 Channel LPCM) 1x RJ45 (1x HDBaseT 2.0 HDMI & Proprietary Data) 1x Phoenix (3 pin) (1x RS-232)
Power:	48V/0.83A DC (US/EU standards, CE/FCC/UL certified)
Dimensions:	163mm (W) x 78mm (D) x 16mm (H)
Gross Weight:	1400g
Net. Weight:	360g

FEATURES

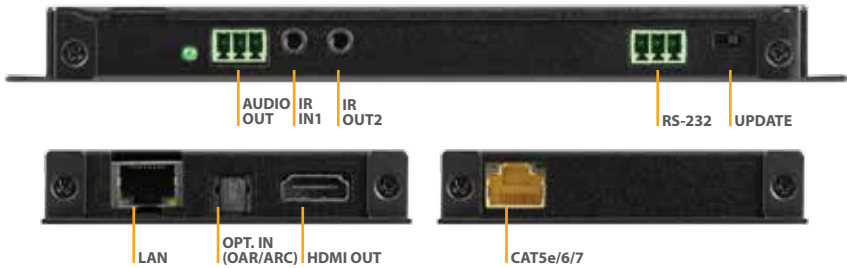
- Supports full HDBaseT™ 2.0 specification signals can be received up to a maximum distance of 100m over CAT6a/7
- HDCP 2.2, HDMI and DVI compatible
- HDBaseT 5-Play™ convergence: High-Definition video and audio, 100BaseT Ethernet, PoH (Power over HDBaseT) and control (Bi-Directional IR & RS-232 pass through)
- Supported resolutions VGA~WUXGA, 480i~1080p, 4K UHD@24/25/30Hz (RGB 4:4:4 & YUV 4:2:2), 4K UHD@ 60Hz (YUV 4:2:0), 4K/2K@24/25/30Hz (RGB 4:4:4 & YUV 4:2:2) and 4K/2K@ 60Hz (YUV 4:2:0) dependent upon the output display's EDID settings
- 4K/2K & 4K UHD signals can be transmitted up to 70m via CAT5e/6 and 100m via CAT6a/7
- Supports pass-through of HD audio formats: LPCM 2/5.1/7.1CH, Dolby Digital 2/5.1CH, Dolby Digital Plus, Dolby TrueHD, Dolby Atmos and DTS-HD Master Audio
- Optical audio return (OAR)
- Supports optical sampling rate up to 48kHz
- Audio return channel (ARC)
- Dedicated channel for analogue stereo audio transmission from the transmitter to a compatible receiver.
- Ultra slim chassis design for ease of installation
- Compatible with PUV-2000RX Receiver



HDBaseT™ 2.0 Slimline Receiver (100m)

4K, HDCP2.2, HDMI2.0, PoH, LAN, OAR)

PUV-2000RX



4K

3D

HDMI2.0

HDBT2.0

5Play

HDCP2.2

PoH

OAR

ARC

The PUV-2000RX Slimline Receiver supports video resolutions up to 4K UHD, along with HD audio, 2-Way IR, RS-232, PoH (Power over HDBaseT), and LAN signals up to 100m. Utilising the latest HDBaseT™ 2.0 technology, this solution provides advanced signal management and dedicated audio pathways to ensure reliable results in the most demanding installation environments. In addition to the full 5-Play convergence, this device also incorporates OAR (Optical Audio Return) and ARC (Audio Return Channel) functions which enable audio from a compatible display to be routed back from the receiver unit to the transmitter. All audio, video, control, and power are transmitted simultaneously over a single CAT6a/7 cable up to 100m.

All of these features are incorporated into an ultra slim casing (less than 18mm thick), providing unrivalled flexibility and ease of installation.

SPECIFICATIONS

Input:	1x RJ45 (1x HDBaseT 2.0 HDMI & Proprietary Data) 1x Toslink (1x Optical 2 Channel LPCM) 1x 3.5mm Stereo mini-jack (1x Infra Red Emitter)
Output:	1x HDMI (1x HDMI Uncompressed AV and Data) 1x RJ45 (1x LAN Serving) 1x 3.5mm Stereo mini-jack (1x Infra Red Receiver) 1x Phoenix (3 pin) (1x Stereo (L/R) Audio Output) 1x Phoenix (3 pin) (1x RS-232)
Power:	Power over HDBaseT
Dimensions:	163mm (W) x 78mm (D) x 16mm (H)
Gross Weight:	950g
Net. Weight:	360g

FEATURES

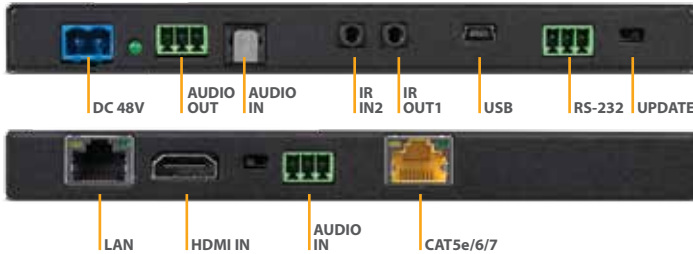
- Supports full HDBaseT™ 2.0 specification signals can be received up to a maximum distance of 100m over CAT6a/7
- HDCP 2.2, HDMI and DVI compatible
- HDBaseT 5-Play™ convergence: High-Definition video and audio, 100BaseT Ethernet, PoH (Power over HDBaseT) and control (Bi-Directional IR & RS-232 pass through)
- Supported resolutions VGA~WUXGA, 480i~1080p, 4K UHD@24/25/30Hz (RGB 4:4:4 & YUV 4:2:2), 4K UHD@60Hz (YUV 4:2:0), 4K/2K@24/25/30Hz (RGB 4:4:4 & YUV 4:2:2) and 4K/2K@60Hz (YUV 4:2:0) dependent upon the output display's EDID settings
- 4K/2K & 4K UHD signals can be transmitted up to 70m via CAT5e/6 and 100m via CAT6a/7
- Supports pass-through of HD audio formats: LPCM 2/5.1/7.1CH, Dolby Digital 2/5.1CH, Dolby Digital Plus, Dolby TrueHD, Dolby Atmos and DTS-HD Master Audio
- Optical audio return (OAR)
- Supports optical sampling rate up to 48kHz
- Audio return channel (ARC)
- Dedicated channel for analogue stereo audio transmission from a compatible transmitter to receiver.
- Ultra slim chassis design for ease of installation
- Compatible with PUV-2000TX Transmitter



HDBaseT™ Slimline Transmitter (100m)

4K, HDCP2.2, HDMI2.0, PoH, LAN, OAR

PUV-1530TX



4K 3D HDMI2.0 HDBT 5Play HDCP2.2 PoH OAR

The PUV-1530TX Transmitter enables transmission of video resolutions up to 4K UHD, along with HD audio, 2-Way IR, RS-232, PoH (Power over HDBaseT), OAR (Optical Audio Return), and LAN signals up to 100m.

This solution provides advanced signal management ensuring reliable results in the most demanding installation environments. All audio, video, control, and power are transmitted simultaneously over a single CAT6a/7 cable up to 100m.

SPECIFICATIONS

Input:	1x HDMI Uncompressed AV and Data (1x HDMI) 1x Analogue Stereo (L/R) Audio Input (1x Phoenix (3 pin)) 1x Infra Red Receiver (1x 3.5mm Stereo mini-jack) 1x RS-232 (1x Phoenix (3 pin)) 1x LAN Serving (1x RJ45) 1x Service Port Proprietary Data (1x USB Mini B)
Output:	1x HDBaseT HDMI & Proprietary Data (1x RJ45) 1x Optical DTS / Dolby Digital / 2 Channel LPCM (1x Toslink) 1x Analogue Stereo (L/R) Audio Output (1x Phoenix (3 pin)) 1x Infra Red Emitter (1x 3.5mm Stereo mini-jack)
Power:	48V/0.83A DC (US/EU standards, CE/FCC/UL certified)
Dimensions:	80mm (D) x 165mm (W) x 20mm (H)
Gross Weight:	950g
Net. Weight:	335g

FEATURES

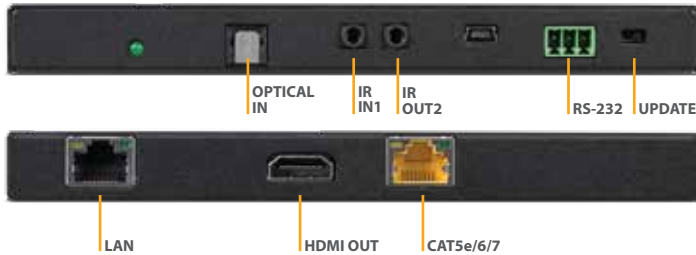
- HDCP2.2 Compliant
- HDBaseT 5-Play™ convergence: High-Definition video and audio, 100BaseT Ethernet, PoH (Power over HDBaseT) and control (Bi-Directional IR & RS-232 pass through)
- Supported resolutions VGA~WUXGA, 480i~1080p, 4K UHD@24/25/30Hz (RGB 4:4:4 & YUV 4:2:2), 4K UHD@ 60Hz (YUV 4:2:0), 4K/2K@24/25/30Hz (RGB 4:4:4 & YUV 4:2:2) and 4K/2K@ 60Hz (YUV 4:2:0) dependent upon the output display's EDID settings
- 4K/2K & 4K UHD signals can be transmitted up to 70m via CAT5e/6 and 100m via CAT6a/7
- Supports pass-through of HD audio formats: LPCM 2/5.1/7.1CH, Dolby Digital 2/5.1CH, Dolby Digital Plus, Dolby TrueHD, Dolby Atmos and DTS-HD Master Audio
- Optical Audio Return (OAR)
- Supports HDCP repeating and CEC functions
- Supports 3D signals
- Compatible with PUV-1530RX Receiver



HDBaseT™ Slimline Receiver (100m)

4K, HDCP2.2, HDMI2.0, PoH, LAN, OAR

PUV-1530RX



4K

3D

HDMI2.0

HDBT

5Play

HDCP2.2

PoH

OAR

The PUV-1530RX Receiver will accept transmitted video resolutions up to 4K UHD, along with HD audio, 2-Way IR, RS-232, PoH (Power over HDBaseT), OAR (Optical Audio Return), and LAN signals up to 100m.

This solution provides advanced signal management ensuring reliable results in the most demanding installation environments. All audio, video, control, and power are received simultaneously over a single CAT6a/7 cable up to 100m.

SPECIFICATIONS

Input:	1x RJ45 (1x HDBaseT - HDMI & Proprietary Data) 1x Toslink (1x OAR digital pathway - 2 Channel LPCM / DTS / Dolby Digital) 1x 3.5mm Stereo mini-jack (1x Infra Red Receiver) 1x USB Type A (1x Service Port Proprietary Data)
Output:	1x HDMI (1x HDMI - Uncompressed AV and Data) 1x 3.5mm Stereo mini-jack (1x Infra Red Emitter) 1x RJ45 (1x LAN Servicing) 1x Phoenix (3 pin) (1x RS-232)
Power:	Power over HDBaseT
Dimensions:	80mm (D) x 165mm (W) x 20mm (H)
Gross Weight:	950g
Net. Weight:	335g

FEATURES

- HDCP2.2 Compliant
- HDBaseT 5-Play™ convergence: High-Definition video and audio, 100BaseT Ethernet, PoH (Power over HDBaseT) and control (Bi-Directional IR & RS-232 pass through)
- Supported resolutions VGA~WUXGA, 480i~1080p, 4K UHD@24/25/30Hz (RGB 4:4:4 & YUV 4:2:2), 4K UHD@ 60Hz (YUV 4:2:0), 4K/2K@24/25/30Hz (RGB 4:4:4 & YUV 4:2:2) and 4K/2K@ 60Hz (YUV 4:2:0) dependent upon the output display's EDID settings
- 4K/2K & 4K UHD signals can be transmitted up to 70m via CAT5e/6 and 100m via CAT6a/7
- Supports pass-through of HD audio formats: LPCM 2/5.1/7.1CH, Dolby Digital 2/5.1CH, Dolby Digital Plus, Dolby TrueHD, Dolby Atmos and DTS-HD Master Audio
- Optical Audio Return (OAR)
- Supports optical sampling rate up to 48kHz
- Supports HDCP repeating and CEC functions
- Supports 3D signals
- Compatible with PUV-1530TX Transmitter



HDBaseT™ LITE Slimline Transmitter (60m)

4K, HDCP2.2, HDMI2.0, PoH, OAR

PUV-1230PL-TX



4K 3D HDMI2.0 HDBT HDCP2.2 PoH OAR

The PUV-1230PL-TX Transmitter enables transmission of video resolutions up to 4K UHD, along with HD audio, 2-Way IR, RS-232, PoH (Power over HDBaseT), and OAR (Optical Audio Return) up to 60m.

This solution provides advanced signal management ensuring reliable results in the most demanding installation environments. All audio, video, control, and power are transmitted simultaneously over a single CAT6a/7 cable up to 60m.

SPECIFICATIONS

Input:	1x HDMI Uncompressed AV and Data [1x HDMI] 1x Analogue Stereo (L/R) Audio Input [1x Phoenix (3 pin)] 1x Infra Red Receiver [1x 3.5mm Stereo mini-jack] 1x RS-232 [1x Phoenix (3 pin)] 1x Service Port Proprietary Data [1x USB Mini B]
Output:	1x HDBaseT HDMI & Proprietary Data [1x RJ45] 1x Analogue Stereo (L/R) Audio Output [1x Phoenix (3 pin)] 1x Optical DTS / Dolby Digital / 2 Channel LPCM [1x Toslink] 1x Infra Red Emitter [1x 3.5mm Stereo mini-jack]
Power:	48V/0.83A DC (US/EU standards, CE/FCC/UL certified)
Dimensions:	80mm (D) x 165mm (W) x 20mm (H)
Gross Weight:	950g
Net. Weight:	335g

FEATURES

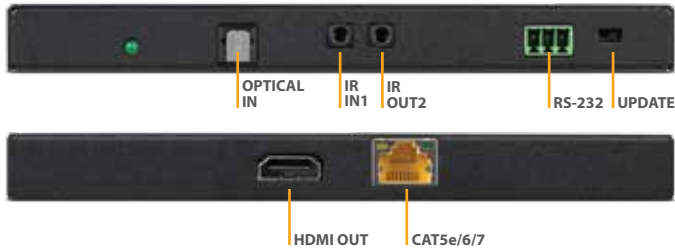
- HDCP2.2 Compliant
- High-Definition video and audio, PoH (Power over HDBaseT) and control (Bi-Directional IR & RS-232 pass through)
- Supported resolutions VGA~WUXGA, 480i~1080p, 4K UHD@24/25/30Hz (RGB 4:4:4 & YUV 4:2:2), 4K UHD@ 60Hz (YUV 4:2:0), 4K/2K@24/25/30Hz (RGB 4:4:4 & YUV 4:2:2) and 4K/2K@ 60Hz (YUV 4:2:0) dependent upon the output display's EDID settings
- 4K/2K & 4K UHD signals can be transmitted up to 35m via CAT5e/6 and 60m via CAT6a/7
- Supports pass-through of HD audio formats: LPCM 2/5.1/7.1CH, Dolby Digital 2/5.1CH, Dolby Digital Plus, Dolby TrueHD, Dolby Atmos and DTS-HD Master Audio
- Optical Audio Return (OAR)
- Supports HDCP repeating and CEC functions
- Supports 3D signals
- Compatible with PUV-1230PL-RX Receiver



HDBaseT™ LITE Slimline Receiver (60m)

4K, HDCP2.2, HDMI2.0, PoH, OAR

PUV-1230PL-RX



4K 3D HDMI2.0 HDBT HDCP2.2 PoH OAR

The PUV-1230PL-RX Receiver will accept transmitted video resolutions up to 4K UHD, along with HD audio, 2-Way IR, RS-232, PoH (Power over HDBaseT), and OAR (Optical Audio Return) up to 60m.

This solution provides advanced signal management ensuring reliable results in the most demanding installation environments. All audio, video, control, and power are received simultaneously over a single CAT6a/7 cable up to 60m.

SPECIFICATIONS

Input:	1x HDBaseT HDMI & Proprietary Data [1x RJ45] 1x Optical DTS / Dolby Digital / 2 Channel LPCM [1x Toslink] 1x Infra Red Receiver [1x 3.5mm Stereo mini-jack]
Output:	1x HDMI Uncompressed AV and Data [1x HDMI] 1x Infra Red Emitter [1x 3.5mm Stereo mini-jack] 1x RS-232 [1x Phoenix (3 pin)]
Power:	Power over HDBaseT
Dimensions:	80mm (D) x 165mm (W) x 20mm (H)
Gross Weight:	950g
Net. Weight:	335g

FEATURES

- HDCP2.2 Compliant
- High-Definition video and audio, PoH (Power over HDBaseT) and control (Bi-Directional IR & RS-232 pass through)
- Supported resolutions VGA~WUXGA, 480i~1080p, 4K UHD@24/25/30Hz (RGB 4:4:4 & YUV 4:2:2), 4K UHD@60Hz (YUV 4:2:0), 4K/2K@24/25/30Hz (RGB 4:4:4 & YUV 4:2:2) and 4K/2K@60Hz (YUV 4:2:0) dependent upon the output display's EDID settings
- 4K/2K & 4K UHD signals can be transmitted up to 35m via CAT5e/6 and 60m via CAT6a/7
- Supports pass-through of HD audio formats: LPCM 2/5.1/7.1CH, Dolby Digital 2/5.1CH, Dolby Digital Plus, Dolby TrueHD, Dolby Atmos and DTS-HD Master Audio
- Optical Audio Return (OAR)
- Supports HDCP repeating and CEC functions
- Supports 3D signals
- Compatible with PUV-1230PL-TX Transmitter



HDBaseT™ Transmitter (100m)

4K, HDCP2.2, HDMI2.0, PoH, LAN

PUV-1510TX



4K 3D HDMI2.0 HDBT 5Play HDCP2.2 PoH

The PUV-1510TX Transmitter enables transmission of video resolutions up to 4K UHD, along with HD audio, 2-Way IR, RS-232, PoH (Power over HDBaseT), and LAN signals up to 100m.

This solution provides advanced signal management ensuring reliable results in the most demanding installation environments. All audio, video, control, and power are transmitted simultaneously over a single CAT6a/7 cable up to 100m.

SPECIFICATIONS

Input:	1x HDMI (1x HDMI Uncompressed AV and Data) 1x 9pin Dsub (1x RS-232 Data) 1x 3.5mm Stereo mini-jack (1x Infra Red Receiver)
Output:	1x RJ45 (1x HDBaseT output HDMI & Proprietary Data) 1x 3.5mm Stereo mini-jack (1x Infra Red Emitter) 1x RJ45 (1x Ethernet (I/O) IP)
Power:	48V/0.83A DC (US/EU standards, CE/FCC/UL certified)
Dimensions:	116mm (W) x 106mm (D) x 27mm (H)
Gross Weight:	680g
Net. Weight:	360g

FEATURES

- HDCP2.2 Compliant
- Supports uncompressed video/audio up to 10.2Gbps
- Supports HDCP repeating and CEC functions
- Supports resolutions VGA~WUXGA, 480i~1080p, 4K UHD@24/25/30Hz (RGB 4:4:4 & YUV 4:2:2), 4K UHD@60Hz (YUV 4:2:0), 4K/2K@24/25/30Hz (RGB 4:4:4 & YUV 4:2:2) and 4K/2K@60Hz (YUV 4:2:0) dependent upon the output display's EDID settings
- 4K/2K & 4K UHD signals can be transmitted up to 70m via CAT5e/6 and 100m via CAT6a/7
- 1080p signals can be transmitted up to 100m via CAT5e/6/6a/7
- Audio support up to 7.1CH & Dolby TrueHD, DTS-HD
- 5-Play™ convergence: HDMI, LAN, PoH & Control (IR & RS232)
- Supports 3D signals
- Compatible with PUV-1510RX Receiver



HDBaseT™ Receiver (100m)

4K, HDCP2.2, HDMI2.0, PoH, LAN

PUV-1510RX



4K 3D HDMI2.0 HDBT 5Play HDCP2.2 PoH

The PUV-1510RX Receiver will accept transmitted video resolutions up to 4K UHD, along with HD audio, 2-Way IR, RS-232, PoH (Power over HDBaseT), and LAN signals up to 100m. This solution provides advanced signal management ensuring reliable results in the most demanding installation environments. All audio, video, control, and power are received simultaneously over a single CAT6a/7 cable up to 100m.

SPECIFICATIONS

- Input:** 1x RJ45 (1x HDBaseT HDMI & Proprietary Data)
1x 3.5mm Stereo mini-jack (1x Infra Red Receiver)
- Output:** 1x HDMI (1x HDMI Uncompressed AV and Data)
1x 9pin Dsub (1x RS-232 Data)
1x 3.5mm Stereo mini-jack (1x Infra Red Emitter)
- Power:** Power over HDBaseT (PoH)
- Dimensions:** 116mm (W) x 106mm (D) x 27mm (H)
- Gross Weight:** 540g
- Net. Weight:** 357g

FEATURES

- HDCP2.2 Compliant
- Supports uncompressed video/audio up to 10.2Gbps
- Supports HDCP repeating and CEC functions
- Supports resolutions VGA~WUXGA, 480i~1080p, 4K UHD@24/25/30Hz (RGB 4:4:4 & YUV 4:2:2), 4K UHD@ 60Hz (YUV 4:2:0), 4K/2K@24/25/30Hz (RGB 4:4:4 & YUV 4:2:2) and 4K/2K@ 60Hz (YUV 4:2:0) dependent upon the output display's EDID settings
- 4K/2K & 4K UHD signals can be transmitted up to 70m via CAT5e/6 and 100m via CAT6a/7
- 1080p signals can be transmitted up to 100m via CAT5e/6/6a/7
- Audio support up to 7.1CH & Dolby TrueHD, DTS-HD
- 5Play™ convergence: HDMI, LAN, PoH & Control (IR & RS232)
- Supports 3D signals
- Compatible with PUV-1510TX Transmitter



HDBaseT™ LITE Transmitter (60m)

4K, HDCP2.2, HDMI2.0, PoH

PUV-1210PL-TX



4K 3D HDMI2.0 HDBT HDCP2.2 PoH OAR

The PUV-1210PL-TX Transmitter enables transmission of video resolutions up to 4K UHD, along with HD audio, 2-Way IR, RS-232, PoH (Power over HDBaseT) up to 60m.

This solution provides advanced signal management ensuring reliable results in the most demanding installation environments. All audio, video, control, and power are transmitted simultaneously over a single CAT6a/7 cable up to 60m.

SPECIFICATIONS

Input:	1x HDMI Uncompressed AV and Data [1x HDMI] 1x Infra Red Receiver [1x 3.5mm Stereo mini-jack] 1x RS-232 Data [1x 9pin Dsub]
Output:	1x HDBaseT HDMI & Proprietary Data [1x RJ45] 1x Infra Red Emitter [1x 3.5mm Stereo mini-jack]
Power:	48V/0.83A DC (US/EU standards, CE/FCC/UL certified)
Dimensions:	116mm (W) x 106mm (D) x 27mm (H)
Gross Weight:	540g
Net. Weight:	357g

FEATURES

- HDCP2.2 Compliant
- High-Definition video and audio, PoH (Power over HDBaseT) and control (Bi-Directional IR & RS-232 pass through)
- Supported resolutions VGA~WUXGA, 480i~1080p, 4K UHD@24/25/30Hz (RGB 4:4:4 & YUV 4:2:2), 4K UHD@ 60Hz (YUV 4:2:0), 4K/2K@24/25/30Hz (RGB 4:4:4 & YUV 4:2:2) and 4K/2K@ 60Hz (YUV 4:2:0) dependent upon the output display's EDID settings
- 4K/2K & 4K UHD signals can be transmitted up to 35m via CAT5e/6 and 60m via CAT6a/7
- Supports pass-through of HD audio formats: LPCM 2/5.1/7.1CH, Dolby Digital 2/5.1CH, Dolby Digital Plus, Dolby TrueHD, Dolby Atmos and DTS-HD Master Audio
- Supports HDCP repeating and CEC functions
- Support 3D signals
- Compatible with PUV-1210PL-RX Receiver



HDBaseT™ LITE Receiver (60m)

4K, HDCP2.2, HDMI2.0, PoH

PUV-1210PL-RX



4K 3D HDMI2.0 HDBT HDCP2.2 PoH OAR

The PUV-1210PL-RX Receiver will accept transmitted video resolutions up to 4K UHD, along with HD audio, 2-Way IR, RS-232, PoH (Power over HDBaseT), and OAR (Optical Audio Return) up to 60m.

This solution provides advanced signal management ensuring reliable results in the most demanding installation environments. All audio, video, control, and power are received simultaneously over a single CAT6a/7 cable up to 60m.

SPECIFICATIONS

- Input:** 1x HDBaseT HDMI & Proprietary Data [1x RJ45]
1x Infra Red Receiver [1x 3.5mm Stereo mini-jack]
- Output:** 1x HDMI Uncompressed AV and Data [1x HDMI]
1x Infra Red Emitter [1x 3.5mm Stereo mini-jack]
1x RS-232 Data [1x 9pin Dsub]
- Power:** Power over HDBaseT
- Dimensions:** 116mm (W) x 106mm (D) x 27mm (H)
- Gross Weight:** 540g
- Net. Weight:** 357g

FEATURES

- HDCP2.2 Compliant
- High-Definition video and audio, PoH (Power over HDBaseT) and control (Bi-Directional IR & RS-232 pass through)
- Supported resolutions VGA~WUXGA, 480i~1080p, 4K UHD@24/25/30Hz (RGB 4:4:4 & YUV 4:2:2), 4K UHD@60Hz (YUV 4:2:0), 4K/2K@24/25/30Hz (RGB 4:4:4 & YUV 4:2:2) and 4K/2K@60Hz (YUV 4:2:0) dependent upon the output display's EDID settings
- 4K/2K & 4K UHD signals can be transmitted up to 35m via CAT5e/6 and 60m via CAT6a/7
- Supports pass-through of HD audio formats: LPCM 2/5.1/7.1CH, Dolby Digital 2/5.1CH, Dolby Digital Plus, Dolby TrueHD, Dolby Atmos and DTS-HD Master Audio
- Supports HDCP repeating and CEC functions
- Supports 3D signal
- Compatible with PUV-1210PL-TX Transmitter



HDMI over Single CAT5e/6/7 HDBaseT™

Bi-directional PoC Transmitter-Full 5Play™ & Single LAN up to 100m

PU-607BD-TX



4K **3D** **HDMI** **HDBT** **5Play** **HDCP2.2** **PoC**

The PU-607BD-TX Transmitter allows uncompressed HDMI signals and IP data to be transmitted over a Single CAT5e/6/7 cable. This solution has the added features of RS-232 and 2-way IR control functionality over the same CAT5e/6/7 cable. These combined HDMI and control signals can be transmitted up to lengths of 100 metres. This Transmitter is designed to be used with the PU-607BD-RX and PU-607BDWP-RX Receivers only, which enables Bi-Directional Power over Cable (PoC) functionality.

SPECIFICATIONS

Input:	1x RJ45 (1x HDMI & Proprietary Data) 1x 3.5mm Stereo mini-jack (1x Infra Red Receiver)
Output:	1x HDMI (1x HDMI Uncompressed AV and Data) 1x 9pin Dsub (1x RS-232 Data) 1x 3.5mm Stereo mini-jack (1x Infra Red Emitter) 1x RJ45 (1x Ethernet (I/O) IP)
Power:	24V/1.25A DC (US/EU standards, CE/FCC/UL certified) Bi-directional PoC
Dimensions:	100mm (W) x 115mm (D) x 25mm (H)
Gross Weight:	500g
Net. Weight:	260g

FEATURES

- HDCP 2.2 Compliant
- Supports all v1.4 HDMI resolutions including 4K.
- Supports uncompressed video/audio up to 10.2Gbps
- Supports resolutions VGA~WUXGA, 480i~1080p, 4K UHD@24/25/30Hz (RGB 4:4:4 & YUV 4:2:2), 4K UHD@ 60Hz (YUV 4:2:0), 4K/2K@24/25/30Hz (RGB 4:4:4 & YUV 4:2:2) and 4K/2K@ 60Hz (YUV 4:2:0) dependent upon the output display's EDID settings
- HDMI, HDCP, & DVI compliant
- Supports HDCP repeating and CEC functions
- Uncompressed data transfer over single CAT cable (100m - CAT6/7; 80m - CAT5e)
- 4K/2K & 4K UHD signals can be transmitted up to 70m via CAT5e/6 and 100m via CAT6a/7
- Uncompressed video 1080p, 60Hz, 48bits
- Audio support up to 7.1CH & Dolby TrueHD, DTS-HD
- 5-Play™ convergence: HDMI, LAN, Bi-Directional PoC & Control (IR & RS232)
- Supports 3D signals
- Supports Bi-Directional Power over Cable (PoC)
- Note: Only compatible with PU-607BD-RX & PU-607BDWP-RX Receivers



HDMI over Single CAT5e/6/7 HDBaseT™

Bi-directional PoC Wallplate Transmitter

Full 5Play™ & Single LAN up to 100m

PU-607BDWP-TX



4K 3D HDMI HDBT 5Play HDCP2.2 PoC

The PU-607BDWP-TX Wallplate Transmitter allows uncompressed HDMI signals and IP data to be transmitted over a Single CAT5e/6/7 cable. This solution has the added features of RS-232 and 2-way IR control functionality over the same CAT5e/6/7 cable.

These combined HDMI and control signals can be transmitted up to lengths of 100 metres. This Transmitter is designed to be used with the PU-607BD-RX and PU-607BDWP-RX Receivers only, which enables Bi-Directional Power over Cable (PoC) functionality.

SPECIFICATIONS

Input:	1x RJ45 (1x HDMI & Proprietary Data) 1x 3.5mm Stereo mini-jack (1x Infra Red Receiver)
Output:	1x HDMI (1x HDMI Uncompressed AV and Data) 1x 9pin Dsub (1x RS-232 Data) 1x 3.5mm Stereo mini-jack (1x Infra Red Emitter) 1x RJ45 (1x Ethernet (I/O) IP)
Power:	24V/1.25A DC (US/EU standards, CE/FCC/UL certified) Bi-directional PoC
Dimensions:	145mm (W) x 85mm (H) x 40mm (D)
Gross Weight:	500g
Net. Weight:	260g

FEATURES

- HDCP 2.2 Compliant
- Supports all v1.4 HDMI resolutions including 4K.
- Supports uncompressed video/audio up to 10.2Gbps
- Supports resolutions VGA~WUXGA, 480i~1080p, 4K UHD@24/25/30Hz (RGB 4:4:4 & YUV 4:2:2), 4K UHD@ 60Hz (YUV 4:2:0), 4K/2K@24/25/30Hz (RGB 4:4:4 & YUV 4:2:2) and 4K/2K@ 60Hz (YUV 4:2:0) dependent upon the output display's EDID settings
- HDMI, HDCP, & DVI compliant
- Supports HDCP repeating and CEC functions
- Uncompressed data transfer over single CAT cable (100m - CAT6/7; 80m - CAT5e)
- 4K/2K & 4K UHD signals can be transmitted up to 70m via CAT5e/6 and 100m via CAT6a/7
- Uncompressed video 1080p, 60Hz, 48bits
- Audio support up to 7.1CH & Dolby TrueHD, DTS-HD
- 5-Play™ convergence: HDMI, LAN, Bi-Directional PoC & Control (IR & RS232)
- Supports 3D signals
- Supports Bi-Directional Power over Cable (PoC)
- Note: Only compatible with PU-607BD-RX & PU-607BDWP-RX Receivers

HDMI over Single CAT5e/6/7 HDBaseT™

Bi-directional PoC Receiver-Full 5Play™ & Single LAN up to 100m

PU-607BD-RX



4K 3D HDMI HDBT 5Play HDCP2.2 PoC

The PU-607BD-RX Receiver allows uncompressed HDMI signals and IP data to be received via a Single CAT5e/6/7 cable. This solution has the added features of RS-232 and 2-way IR control functionality over the same CAT5e/6/7 cable. These combined HDMI and control signals can be transmitted up to lengths of 100 metres. This Receiver is designed to be used with the PU-607BD-TX or PU-607BDWP-TX Transmitters only, which enables Bi-Directional Power over Cable (PoC) functionality.

SPECIFICATIONS

Input:	1x RJ45 (1x HDMI & Proprietary Data) 1x 3.5mm Stereo mini-jack (1x Infra Red Receiver)
Output:	1x HDMI (1x HDMI Uncompressed AV and Data) 1x 9pin Dsub (1x RS-232 Data) 1x 3.5mm Stereo mini-jack (1x Infra Red Emitter) 1x RJ45 (1x Ethernet (I/O) IP)
Power:	24V/1.25A DC (US/EU standards, CE/FCC/UL certified)
PoC Power:	Bi-directional PoC
Dimensions:	100mm (W) x 115mm (D) x 25mm (H)
Gross Weight:	500g
Net. Weight:	260g

FEATURES

- HDCP 2.2 Compliant
- Supports all v1.4 HDMI resolutions including 4K.
- Supports uncompressed video/audio up to 10.2Gbps
- Supports resolutions VGA~WUXGA, 480i~1080p, 4K UHD@24/25/30Hz (RGB 4:4:4 & YUV 4:2:2), 4K UHD@ 60Hz (YUV 4:2:0), 4K/2K@24/25/30Hz (RGB 4:4:4 & YUV 4:2:2) and 4K/2K@ 60Hz (YUV 4:2:0) dependent upon the output display's EDID settings
- HDMI, HDCP, & DVI compliant
- Supports HDCP repeating and CEC functions
- Uncompressed data transfer over single CAT cable (100m - CAT6/7; 80m - CAT5e)
- 4K/2K & 4K UHD signals can be transmitted up to 70m via CAT5e/6 and 100m via CAT6a/7
- Uncompressed video 1080p, 60Hz, 48bits
- Audio support up to 7.1CH & Dolby TrueHD, DTS-HD
- 5-Play™ convergence: HDMI, LAN, Bi-Directional PoC & Control (IR & RS232)
- Supports 3D signals
- Supports Bi-Directional Power over Cable (PoC)
- Note: Only compatible with PU-607BD-TX & PU-607BDWP-TX Transmitters



HDMI over Single CAT5e/6/7 HDBaseT™ Bi-directional PoC Wallplate Receiver

Full 5Play™ & Single LAN up to 100m

PU-607BDWP-RX



4K 3D HDMI HDBT 5Play HDCP2.2 PoC

The PU-607BD-RX Receiver allows uncompressed HDMI signals and IP data to be received via a Single CAT5e/6/7 cable. This solution has the added features of RS-232 and 2-way IR control functionality over the same CAT5e/6/7 cable. These combined HDMI and control signals can be transmitted up to lengths of 100 metres. This Receiver is designed to be used with the PU-607BD-TX or PU-607BDWP-TX Transmitters only, which enables Bi-Directional Power over Cable (PoC) functionality.

SPECIFICATIONS

Input:	1x RJ45 (1x HDMI & Proprietary Data) 1x 3.5mm Stereo mini-jack (1x Infra Red Receiver)
Output:	1x HDMI (1x HDMI Uncompressed AV and Data) 1x 9pin Dsub (1x RS-232 Data) 1x 3.5mm Stereo mini-jack (1x Infra Red Emitter) 1x RJ45 (1x Ethernet (I/O) IP)
Power:	24V/1.25A DC (US/EU standards, CE/FCC/UL certified)
PoC Power:	Bi-directional PoC
Dimensions:	145mm (W) x 85mm (H) x 40mm (D)
Gross Weight:	500g
Net. Weight:	260g

FEATURES

- HDCP 2.2 Compliant
- Supports all v1.4 HDMI resolutions including 4K.
- Supports uncompressed video/audio up to 10.2Gbps
- Supports resolutions VGA~WUXGA, 480i~1080p, 4K UHD@24/25/30Hz (RGB 4:4:4 & YUV 4:2:2), 4K UHD@ 60Hz (YUV 4:2:0), 4K/2K@24/25/30Hz (RGB 4:4:4 & YUV 4:2:2) and 4K/2K@ 60Hz (YUV 4:2:0) dependent upon the output display's EDID settings
- HDMI, HDCP, & DVI compliant
- Supports HDCP repeating and CEC functions
- Uncompressed data transfer over single CAT cable (100m - CAT6/7; 80m - CAT5e)
- 4K/2K & 4K UHD signals can be transmitted up to 70m via CAT5e/6 and 100m via CAT6a/7
- Uncompressed video 1080p, 60Hz, 48bits
- Audio support up to 7.1CH & Dolby TrueHD, DTS-HD
- 5-Play™ convergence: HDMI, LAN, Bi-Directional PoC & Control (IR & RS232)
- Supports 3D signals
- Supports Bi-Directional Power over Cable (PoC)
- Note: Only compatible with PU-607BD-TX & PU-607BDWP-TX Transmitters

Switchable HDMI/VGA HDBaseT™ Transmitter with integrated video scaling (5Play™ inc. PoC & single LAN, up to 100m)

PU-507TX-HDVGA



3D **HDMI** **HDBT** **5Play** **PoC**

The PU-507TX-HDVGA allows VGA and uncompressed HDMI signals to be transmitted over a Single CAT5e/6/7 cable to lengths of up to 100 metres. This device features full 5-Play convergence allowing the distribution of Video, Audio, LAN serving, Power over Cable (PoC), RS-232 and 2-way IR control functionality over the same CAT5e/6/7 cable. This transmitter allows the user to select and switch between a HDMI or VGA source whilst the integrated scaler ensures maximum resolution support for the connected display. Additionally, the PU-507TX-HDVGA utilises an auto-scan feature which detects and switches to the last active input.

SPECIFICATIONS

Input: 1x HDMI (1x HDMI Uncompressed AV and Data)
1x 15pin Dsub (1x PC RGBHV)
1x 3.5mm Stereo mini-jack (1x Analogue Stereo(L/R))
1x RJ45 (1x LAN Serving)
1x 3.5mm Stereo mini-jack (1x Infra Red Receiver)
1x USB Type A (1x Service Port Proprietary Data)
1x 9pin Dsub (1x RS-232 Data)

Output: 1x RJ45 (1x HDBaseT HDMI & Proprietary Data)
1x 3.5mm Stereo mini-jack (1x Infra Red Emitter)

Power: 24V/2.7A DC (US/EU standards, CE/FCC/UL certified)

Dimensions: 145mm (W) x 200mm (D) x 30mm (H)

Gross 1200g

Weight:

Net. Weight: 600g

FEATURES

- Supports all v1.4 HDMI resolutions.
- Auto Scan function - scans the inputs for a live signal
- Supports uncompressed video/audio up to 10.2Gbps
- Common supported resolutions: HDTV: 480p, 576p, 720p, 1080i, 1080p, 1080p24; PC: VGA, SVGA, XGA, WXGA, SXGA, UXGA, WUXGA.
- HDMI, HDCP, & DVI compliant
- Supports HDCP repeating and CEC functions
- Uncompressed data transfer over single CAT cable (100m - CAT6/7; 80m - CAT5e)
- Audio support up to 7.1CH & Dolby TrueHD, DTS-HD
- 5-Play™ convergence: HDMI, LAN, PoC & Control (IR & RS232)
- Supports 3D signals



5Play™ HDBaseT™ Transmitter

with simultaneous HDMI output (inc. PoC & single LAN)

PU-507TX-1H



3D

HDMI

HDBT

5Play

PoC

The PU-507TX-1H Transmitter allows uncompressed HDMI signals and IP data to be transmitted over a Single CAT5e/6/7 cable. This device features full 5Play™ convergence allowing the distribution of Video, Audio, LAN serving, Power over Cable (PoC), RS-232 and 2-way IR control functionality over the same CAT5e/6/7 cable. These combined HDMI and control signals can be transmitted up to lengths of 100 metres. This variant of the popular PU-507TX-1H Transmitter has a simultaneous HDMI output enabling a local HDMI display to be connected whilst simultaneously distributing the signals over a single CAT5e/6/7 to a compatible HDBaseT Receiver.

SPECIFICATIONS

Input:	1x HDMI (1x HDMI Uncompressed AV and Data) 1x 3.5mm Stereo mini-jack (1x RS-232) 1x 3.5mm Stereo mini-jack (1x Infra Red Receiver)
Output:	1x HDMI (1x HDMI Uncompressed AV and Data) 1x RJ45 (1x HDBaseT HDMI & Proprietary Data) 1x 3.5mm Stereo mini-jack (1x Infra Red Emitter) 1x RJ45 (1x Ethernet (I/O) IP)
Power:	24V/1.25A DC (US/EU standards, CE/FCC/UL certified)
Dimensions:	105mm (W) x 115mm (D) x 25mm (H)
Gross Weight:	660g
Net. Weight:	240g

FEATURES

- HDCP 2.2 Compliant
- Supports all v1.4 HDMI resolutions plus 4k.
- Supports uncompressed video/audio up to 10.2Gbps
- Supports resolutions VGA~WUXGA, 480i~1080p, 4K UHD@24/25/30Hz (RGB 4:4:4 & YUV 4:2:2), 4K UHD@ 60Hz (YUV 4:2:0), 4K/2K@24/25/30Hz (RGB 4:4:4 & YUV 4:2:2) and 4K/2K@ 60Hz (YUV 4:2:0) dependent upon the output display's EDID settings
- HDMI, HDCP, & DVI compliant
- Supports HDCP repeating and CEC functions
- Uncompressed data transfer over single CAT cable (100m - CAT6/7; 80m - CAT5e)
- Audio support up to 7.1CH & Dolby TrueHD, DTS-HD
- 5-Play™ convergence: HDMI, LAN, PoC & Control (IR & RS232)
- Supports 3D signals
- 4K/2K & 4K UHD signals can be transmitted up to 70m via CAT5e/6 and 100m via CAT6a/7



5Play™ HDBaseT™ Transmitter

(inc. PoC & single LAN, up to 100m)

PU-507TX



4K 3D 5Play HDMI HDBT PoC

The PU-507TX Transmitter allows uncompressed HDMI signals and IP data to be transmitted over a Single CAT5e/6/7 cable. This device features full 5-Play convergence allowing the distribution of Video, Audio, LAN serving, Power over Cable (PoC), RS-232 and 2-way IR control functionality over the same CAT5e/6/7 cable. These combined HDMI and control signals can be transmitted up to lengths of 100 metres.

SPECIFICATIONS

Input:	1x HDMI (1x HDMI Uncompressed AV and Data) 1x 9pin Dsub (1x RS-232 Data) 1x 3.5mm Stereo mini-jack (1x Infra Red Receiver)
Output:	1x RJ45 (1x HDMI & Proprietary Data) 1x 3.5mm Stereo mini-jack (1x Infra Red Emitter) 1x RJ45 (1x Ethernet (I/O) IP)
Power:	24V/1.25A DC (US/EU standards, CE/FCC/UL certified)
Dimensions:	105mm (W) x 115mm (D) x 26mm (H)
Gross Weight:	660g
Net. Weight:	540g

FEATURES

- HDCP 2.2 Compliant
- Supports all v1.4 HDMI resolutions plus 4k.
- Supports uncompressed video/audio up to 10.2Gbps
- Supports resolutions VGA~WUXGA, 480i~1080p, 4K UHD@24/25/30Hz (RGB 4:4:4 & YUV 4:2:2), 4K UHD@ 60Hz (YUV 4:2:0), 4K/2K@24/25/30Hz (RGB 4:4:4 & YUV 4:2:2) and 4K/2K@ 60Hz (YUV 4:2:0) dependent upon the output display's EDID settings
- HDMI, HDCP, & DVI compliant
- Supports HDCP repeating and CEC functions
- 4K/2K & 4K UHD signals can be transmitted up to 70m via CAT5e/6 and 100m via CAT6a/7
- 1080p signals can be transmitted up to 100m via CAT5e/6/6a/7
- Uncompressed video 1080p, 60Hz, 48bits
- Audio support up to 7.1CH & Dolby TrueHD, DTS-HD
- 5-Play™ convergence: HDMI, LAN, PoC & Control (IR & RS232)
- Supports 3D signals



5Play™ HDBaseT™ Receiver

(inc. PoC & single LAN, up to 100m)

PU-507RX



4K 3D 5Play HDMI HDBT PoC

The PU-507RX Receiver allows uncompressed HDMI signals and IP data to be received over a Single CAT5e/6/7 cable. This device features full 5-Play convergence allowing the distribution of Video, Audio, LAN serving, Power over Cable (PoC), RS-232 and 2-way IR control functionality over the same CAT5e/6/7 cable. These combined HDMI and control signals can be transmitted up to lengths of 100 metres.

SPECIFICATIONS

Input: 1x RJ45 (1x HDMI & Proprietary Data)
1x 3.5mm Stereo mini-jack (1x Infra Red Receiver)

Output: 1x HDMI (1x HDMI Uncompressed AV and Data)
1x 9pin Dsub (1x RS-232 Data)
1x 3.5mm Stereo mini-jack (1x Infra Red Emitter)
1x RJ45 (1x Ethernet (I/O) IP)

Power: Powered by PoC

Dimensions: 105mm (W) x 110mm (D) x 26mm (H)

Gross Weight: 400g

Net. Weight: 260g

FEATURES

- HDCP 2.2 Compliant
- Supports all v1.4 HDMI resolutions plus 4k.
- Supports uncompressed video/audio up to 10.2Gbps
- Supports resolutions VGA~WUXGA, 480i~1080p, 4K UHD@24/25/30Hz (RGB 4:4:4 & YUV 4:2:2), 4K UHD@ 60Hz (YUV 4:2:0), 4K/2K@24/25/30Hz (RGB 4:4:4 & YUV 4:2:2) and 4K/2K@ 60Hz (YUV 4:2:0) dependent upon the output display's EDID settings
- HDMI, HDCP, & DVI compliant
- Supports HDCP repeating and CEC functions
- Supports 1080p distances up to 100 meters through CAT5e/6 cables
- Uncompressed video 1080p, 60Hz, 48bits
- Audio support up to 7.1CH & Dolby TrueHD, DTS-HD
- 5-Play™ convergence: HDMI, LAN, PoC & Control (IR & RS232)
- Supports 3D signals
- Supports 4K/2K & 4K UHD - CAT5e/6 = 70m & CAT6a/7 = 100m



5Play HDBaseT™ Wall Plate Receiver

(inc. PoC & single LAN, up to 100m)

PU-507WPRX



4K

3D

5Play

HDMI

HDBT

The PU-507WPRX allows uncompressed HDMI signals and IP data to be transmitted over a Single CAT5e/6/7 cable. This device features full 5Play™ convergence allowing the distribution of Video, Audio, LAN serving, Power over Cable (PoC), RS-232 and 2-way IR control functionality over the same CAT5e/6/7 cable. These combined HDMI and control signals can be transmitted up to lengths of 100 metres. This wall plate variant of the PU-507RX receiver enables seamless integration into a standard double-gang back box.

SPECIFICATIONS

Input:	1x RJ45 (1x HDMI & Proprietary Data) 1x 3.5mm Stereo mini-jack (1x Infra Red Receiver)
Output:	1x HDMI (1x HDMI Uncompressed AV and Data) 1x 9pin Dsub (1x RS-232 Data) 1x 3.5mm Stereo mini-jack (1x Infra Red Emitter) 1x RJ45 (1x Ethernet (I/O) IP)
Power:	Powered by PoC
Dimensions:	145mm (W) x 85mm (H) x 40mm (D)
Gross Weight:	540g
Net. Weight:	360g

FEATURES

- HDCP 2.2 Compliant
- Supports all v1.4 HDMI resolutions plus 4K
- Supports uncompressed video/audio up to 10.2Gbps
- Supports resolutions VGA~WUXGA, 480i~1080p, 4K UHD@24/25/30Hz (RGB 4:4:4 & YUV 4:2:2), 4K UHD@ 60Hz (YUV 4:2:0), 4K/2K@24/25/30Hz (RGB 4:4:4 & YUV 4:2:2) and 4K/2K@ 60Hz (YUV 4:2:0) dependent upon the output display's EDID settings
- HDMI, HDCP, & DVI compliant
- Supports HDCP repeating and CEC functions
- Uncompressed data transfer over single CAT cable (100m - CAT6/7; 80m - CAT5e)
- Uncompressed video 1080p, 60Hz, 48bits
- Audio support up to 7.1CH & Dolby TrueHD, DTS-HD
- 5-Play™ convergence: HDMI, LAN, PoC & Control (IR & RS232)
- Supports 3D signals
- 4K/2K & 4K UHD signals can be transmitted up to 70m via CAT5e/6 and 100m via CAT6a/7
- Compatible with any 'PU-507' transmitter

Hot Tips!

'PU' transmitter model codes *must only* be used with equivalent 'PU' receivers.

'PUV' transmitters *must only* be used with 'PUV' receivers.

HDBaseT Cabling

Always use CAT6 cable for HDBaseT installs up to 1080p.

To achieve the maximum possible cable runs with 4K systems use CAT6a or above.

HDBaseT™ LITE Transmitter

with PoC & 2-way IR (up to 60m)

PU-515PL-TX



4K 3D HDMI HDBT PoC

The PU-515PL-TX Transmitter allows uncompressed HDMI signals to be transmitted over a Single CAT5e/6/7 cable. This solution has the added features of RS-232, 2-way IR control, and Power over Cable (PoC) functionality over the same CAT5e/6/7 cable. These combined HDMI and control signals can be transmitted up to lengths of 60 metres.

SPECIFICATIONS

Input:	1x HDMI (1x HDMI Uncompressed AV and Data) 1x 3.5mm Stereo mini-jack (1x Infra Red Receiver) 1x 3.5mm Stereo mini-jack (1x RS-232)
Output:	1x RJ45 (1x HDBaseT Lite HDMI & Proprietary Data) 1x 3.5mm Stereo mini-jack (1x Infra Red Emitter)
Power:	24V/1.25A DC (US/EU standards, CE/FCC/UL certified)
Dimensions:	75mm (W) x 72mm (D) x 24mm (H)
Gross Weight:	510g
Net. Weight:	440g

FEATURES

- HDCP 2.2 Compliant
- HDMI 1.4 with 3D, 4Kx2K support, HDCP and DVI compliant
- Supports HDMI 1.4 (including HDCP) over a single CAT5e/6/7 up to 60m
- 4K/2K & 4K UHD signals can be transmitted up to 35m via CAT5e/6 and 40m via CAT6a/7
- Complies with HDBaseT™- Lite specifications
- Supports resolutions VGA~WUXGA, 480i~1080p, 4K UHD@24/25/30Hz (RGB 4:4:4 & YUV 4:2:2), 4K UHD@ 60Hz (YUV 4:2:0), 4K/2K@24/25/30Hz (RGB 4:4:4 & YUV 4:2:2) and 4K/2K@ 60Hz (YUV 4:2:0) dependent upon the output display's EDID settings
- HDMI input up to 15m with 8-bit deep colour, or 10m with 12-bit deep colour
- Supports HDMI output up to 15m with 8/12-bit deep colour
- Supports two-way IR, RS-232 Control, and Power Over Cable (PoC)
- Supports High Definition LPCM 7.1CH, Dolby TrueHD, Dolby Digital Plus and DTS-HD Master Audio transmission
- Compatible with PU-515PL-RX Receivers



HDBaseT™ LITE Receiver

with PoC & 2-way IR (up to 60m)

PU-515PL-RX



4K

3D

HDMI

HDBT

PoC

The PU-515PL-RX allows uncompressed HDMI signals to be received over a Single CAT5e/6/7 cable. This solution has the added features of RS-232, 2-way IR control, and Power over Cable (PoC) functionality over the same CAT5e/6/7 cable. These combined HDMI and control signals can be transmitted up to lengths of 60 metres.

SPECIFICATIONS

- Input:** 1x RJ45 (1x HDBaseT Lite HDMI & Proprietary Data)
1x 3.5mm Stereo mini-jack (1x Infra Red Receiver)
- Output:** 1x HDMI (1x HDMI Uncompressed AV and Data)
1x 3.5mm Stereo mini-jack (1x Infra Red Emitter)
1x 3.5mm Stereo mini-jack (1x RS-232)
- Power:** Powered by PoC
- Dimensions:** 75mm (W) x 72mm (D) x 24mm (H)
- Gross Weight:** 510g
- Net. Weight:** 440g

FEATURES

- HDCP 2.2 Compliant
- HDMI 1.4 with 3D, 4Kx2K support, HDCP and DVI compliant
- 4K/2K & 4K UHD signals can be transmitted up to 35m via CAT5e/6 and 40m via CAT6a/7
- Supports HDMI 1.4 (including HDCP) over a single CAT5e/6/7 up to 60m
- Complies with HDBaseT™- Lite specifications
- Supports resolutions VGA~WUXGA, 480i~1080p, 4K UHD@24/25/30Hz (RGB 4:4:4 & YUV 4:2:2), 4K UHD@ 60Hz (YUV 4:2:0), 4K/2K@24/25/30Hz (RGB 4:4:4 & YUV 4:2:2) and 4K/2K@ 60Hz (YUV 4:2:0) dependent upon the output display's EDID settings
- Supports HDMI output up to 15m with 8/12-bit deep colour
- Supports two-way IR, RS-232 Control, and Power Over Cable (PoC)
- Supports High Definition LPCM 7.1CH, Dolby TrueHD, Dolby Digital Plus and DTS-HD Master Audio transmission
- Compatible with PU-515PL-TX Transmitters



HDBaseT™ LITE Transmitter (60m)

with 2-way IR

PU-514L-TX



4K

3D

HDMI

HDBT

The PU-514L-TX is a Transmitter Unit designed to be used with PU-514L-RX Receiver. This device allows uncompressed HDMI, and 2-way IR signals to be transmitted over a Single CAT5e/6/7 cable to distances of up to 60m. Utilise the USB power output from a TV as an optional way of powering the PU-514L-RX receiver unit alternative to a mains power supply. (Use Cable Part Number ADC-USB)

SPECIFICATIONS

Input:	1x HDMI (1x HDMI Uncompressed AV and Data) 1x 3.5mm Stereo mini-jack (1x Infra Red Receiver)
Output:	1x RJ45 (1x HDBaseT Lite HDMI & Proprietary Data) 1x 3.5mm Stereo mini-jack (1x Infra Red Emitter)
Power:	5V/2.6A DC (US/EU standards, CE/FCC/UL certified)
Dimensions:	55mm (W) x 83mm (D) x 22mm (H)
Gross Weight:	140g
Net. Weight:	60g

FEATURES

- HDCP 2.2 Compliant
- HDMI 1.4 with 3D, 4Kx2K support, HDCP and DVI compliant
- Supports HDMI 1.4 (including HDCP) over a single CAT5e/6/7 up to 60m
- 4K/2K & 4K UHD signals can be transmitted up to 35m via CAT5e/6 and 40m via CAT6a/7
- Complies with HDBaseT™- Lite specifications
- Supports resolutions VGA~WUXGA, 480i~1080p, 4K UHD@24/25/30Hz (RGB 4:4:4 & YUV 4:2:2), 4K UHD@ 60Hz (YUV 4:2:0), 4K/2K@24/25/30Hz (RGB 4:4:4 & YUV 4:2:2) and 4K/2K@ 60Hz (YUV 4:2:0) dependent upon the output display's EDID settings
- HDMI input up to 15m with 8-bit deep colour, or 10m with 12-bit deep colour
- Supports 2-way IR Control
- Supports High Definition LPCM 7.1CH, Dolby TrueHD, Dolby Digital Plus and DTS-HD Master Audio transmission
- Choose to power the PU-514L-TX via the USB output from a TV (Cable available separately - ADC-USB): * Please note the performance and consistency of USB power outputs from TV's can vary and cannot be guaranteed by CYP.



HDBaseT™ LITE Receiver (60m)

with 2-way IR

PU-514L-RX



4K

3D

HDMI

HDBT

The PU-514L-RX is a Receiver Unit designed to be used with PU-514L-TX Transmitter, or any compatible HDBaseT™ Matrix or Distribution Amplifier. It allows uncompressed HDMI, and 2-way IR signals to be received via a Single CAT5e/6/7 cable to distances of up to 60m. Utilise the USB power output from a TV as an optional way of powering the PU-514L-RX receiver unit alternative to a mains power supply.

Specific feature compatibility may vary dependant on the transmission device.

SPECIFICATIONS

Input:	1x RJ45 (1x HDMI & Proprietary Data) 1x 3.5mm Stereo mini-jack (1x Infra Red Receiver)
Output:	1x HDMI (1x HDMI Uncompressed AV and Data) 1x 3.5mm Stereo mini-jack (1x Infra Red Emitter)
Power:	5V/2.6A DC (US/EU standards, CE/FCC/UL certified)
Dimensions:	55mm (W) x 83mm (D) x 22mm (H)
Gross Weight:	140g
Net. Weight:	60g



FEATURES

- HDCP 2.2 Compliant
- HDMI 1.4 with 3D, 4Kx2K support, HDCP and DVI compliant
- Supports HDMI 1.4 (including HDCP) over a single CAT5e/6/7 up to 60m
- HDBaseT Lite - 4K/2K & 4K UHD signals can be transmitted up to 35m via CAT5e/6 and 40m via CAT6a/7
- Complies with HDBaseT™- Lite specifications
- Supports resolutions VGA~WUXGA, 480i~1080p, 4K UHD@24/25/30Hz (RGB 4:4:4 & YUV 4:2:2), 4K UHD@ 60Hz (YUV 4:2:0), 4K/2K@24/25/30Hz (RGB 4:4:4 & YUV 4:2:2) and 4K/2K@ 60Hz (YUV 4:2:0) dependent upon the output display's EDID settings
- Supports HDMI output up to 15m with 8/12-bit deep colour
- Supports 2-way IR Control
- Supports High Definition LPCM 7.1CH, Dolby TrueHD, Dolby Digital Plus and DTS-HD Master Audio transmission
- Choose to power the PU-514L-RX via the USB output from a TV (Cable available separately - ADC-USB): * Please note the performance and consistency of USB power outputs from TVs can vary and cannot be guaranteed by CYP.

Matrices

Audio

Extenders

Switchers & Splitters

Scalers & Converters

Other AV

DVI 5Play™ HDBaseT™ Transmitter

including PoC & 2x LAN, up to 100m

PU-DVI1109TX



3D DVI 5Play HDBT PoC

This HDBaseT DVI over CAT5e/6/7 transmitter can transmit DVI video, analogue audio, 2 LAN serving connections, control (RS-232 and bi-directional IR) and Power over Cable (PoC) over a single CAT5e/6/7 cable up to 100m. The transmitter can power the PU-DVI1109RX receiver, via the PoC function, eliminating the need for a separate power supply.

SPECIFICATIONS

- Input:** 1x DVI-I (1x DVI DVI-D)
2x RCA (1x Stereo (L/R))
1x 9pin Dsub (1x RS-232 Data)
1x 3.5mm Stereo mini-jack (1x Infra Red Receiver)
2x RJ45 (2x LAN Serving)
- Output:** 1x RJ45 (1x HDMI & Proprietary Data)
1x 3.5mm Stereo mini-jack (1x Infra Red Emitter)
- Power:** 24V/1.25A Catapult DC (US/EU standards, CE/FCC/UL certified)
- Dimensions:** 450mm (W) x 410mm (D) x 90mm (H)
- Gross Weight:** 560g
- Net. Weight:** 380g

FEATURES

- Supports 3D formats and 4K2K resolution with HDMI to DVI adaptor
- Simultaneous transmission of uncompressed video and audio (1080p@60Hz/Deep Color) over a single CAT5e/6/7 cable up to 100m
- Supports High-definition Audio formats (up to LPCM 7.1CH, Dolby TrueHD and DTS-HD Master Audio)
- Connect and share up to 4 LAN connections (2 at the receiver end, 2 at the Transmitter end) at speeds up to 100Mbps
- Supports bi-directional IR control and RS-232 pass-through
- Full 5Play™ convergence: Video, Audio, LAN serving, Power over Cable (PoC) and Control (bi-directional IR & RS-232 bypass)
- Single power supply powers both units, Receiver unit is powered through the Transmitter via PoC



DVI 5Play™ HDBaseT™ Receiver

including PoC & 2x LAN, up to 100m

PU-DVI1109RX



3D

DVI

5Play

HDBT

PoC

This HDBaseT DVI over CAT5e/6/7 receiver can receive DVI video, analog audio, 2 LAN serving connections, control (RS-232 and bi-directional IR) and Power over Cable (PoC) over a single CAT5e/6/7 cable up to 100m. The PU-DVI1109TX transmitter can power the receiver, via the PoC function, eliminating the need for a separate power supply.

SPECIFICATIONS

Input:	1x RJ45 (1x HDMI & Proprietary Data) 1x 3.5mm Stereo mini-jack (1x Infra Red Receiver)
Output:	1x DVI-I (1x DVI-D) 2x RCA (1x Stereo (L/R)) 1x 9pin Dsub (1x RS-232 Data) 1x 3.5mm Stereo mini-jack (1x Infra Red Emitter) 2x RJ45 (2x LAN Serving)
Power:	Powered by PoC
Dimensions:	450mm (W) x 410mm (D) x 90mm (H)
Gross Weight:	560g
Net. Weight:	380g

FEATURES

- Supports 3D formats and 4K2K resolution with HDMI to DVI adaptor
- Simultaneous transmission of uncompressed video and audio (1080p@60Hz/Deep Color) over a single CAT5e/6/7 cable up to 100m
- Supports High-definition Audio formats (up to LPCM 7.1CH, Dolby TrueHD and DTS-HD Master Audio)
- Connect and share up to 4 LAN connections (2 at the receiver end, 2 at the Transmitter end) at speeds up to 100Mbps
- Supports bi-directional IR control and RS-232 pass-through
- Full 5Play™ convergence: Video, Audio, LAN serving, Power over Cable (PoC) and Control (IR & RS-232 bypass)
- Single power supply powers both units, Receiver unit is powered through the Transmitter via PoC



HDBaseT™ Zone Extender

1x HDMI/1x HDBaseT Out

PU-HBTE-ZE



4K 3D 5Play HDMI HDBT PoC

The PU-HBTE-ZE HDBaseT Zone extender is designed to allow AV integrators to easily create additional zones for any HDBaseT distribution system whilst enabling the HDBaseT pass-through signal to be extended further over CAT5e/6/7 (up to 100m). This device supports the transmission of video (resolutions up to 1080p Full HD, plus 4K Ultra High Definition, and 1920x1200@60Hz), multi-channel digital audio and control via IR, RS-232 or Web GUI/Telnet IP over a single CAT5e/6/7 cable. The Zone extender allows signals to be transmitted up to 100m from the transmitter device to the Zone extender where the signal can be routed to a local display via the HDMI output. The signal is also transmitted simultaneously via the HDBaseT output enabling it to be distributed up to 100m over CAT5e/6/7 from the zone. The PU-HBTE-ZE Zone Extender utilises PoC (Power over Cable) to provide power to the connected Receiver unit, thus no requirement for a PSU on the Receiver end. This device can be cascaded multiple times to create additional zones.*

In addition, the LAN functionality provides the ability to add internet connectivity to every zone which is particularly useful when connecting smart displays.

FEATURES

- Supports uncompressed video/audio up to 10.2Gbps
- Supports resolutions VGA~WUXGA, 480i~1080p, 4K UHD@24/25/30Hz (RGB 4:4:4 & YUV 4:2:2), 4K UHD@60Hz (YUV 4:2:0), 4K/2K@24/25/30Hz (RGB 4:4:4 & YUV 4:2:2) and 4K/2K@60Hz (YUV 4:2:0) dependent upon the output display's EDID settings
- HDMI, HDCP and DVI compliant
- High Definition Audio supported: Dolby TrueHD, Dolby Digital Plus and DTS-HD Master Audio plus LPCM (up to 192kHz)
- Supports RS-232, 2-Way IR, and HDMI CEC control pass through
- Full 5-Play™ Convergence - HDMI, LAN, PoC, & Control (RS-232 & IR)
- Supports 3D signals
- Supports LAN serving to all connected zones

*Subject to number of units being used.

SPECIFICATIONS

Input:	1x RJ45 (1x HDBaseT HDMI & Proprietary Data) 1x RJ45 (1x LAN Serving) 1x USB Mini B (1x Service Port Proprietary Data) 1x 3.5mm Stereo mini-jack (1x Infra Red Receiver)	
Output:	1x RJ45 (1x HDBaseT HDMI & Proprietary Data) 1x HDMI (1x HDMI Uncompressed AV and Data) 1x 3.5mm Stereo mini-jack (1x Infra Red Emitter)	
Power:	24V/1.25A DC (US/EU standards, CE/FCC/UL certified)	
Dimensions:	140mm (W) x 160mm (D) x 30mm (H)	
Gross Weight:	700g	Net. Weight: 520g



100m HDBaseT™ Repeater

PU-HBT-EX



4K 3D 5Play HDMI HDBT PoC

The PU-HBT-EX repeater is designed to extend the signal transmission distances of CYP HDBaseT™ Extender sets and Matrix systems by allowing the user to repeat HDBaseT™ signals a further 100m over CAT5e/6/7 cable. This device features full 5-Play™ functionality, including the highest quality 4K2K uncompressed HD video, uncompressed multi-channel audio, bi-directional control systems (IR & RS-232), Power over Cable (PoC), and Ethernet (for LAN serving & IP Control).

When combined with CYP HDBaseT distribution solutions, this Repeater gives the installer the ability to send Audio, Video, PoC, and Control signals reliably up to 200m. The PU-HBT-EX can also be cascaded twice to achieve a maximum of 300m transmission distance.

SPECIFICATIONS

Input: 1x RJ45 (1x HDMI & Proprietary Data)
Output: 1x RJ45 (1x HDMI & Proprietary Data)
Power: 24V/1.25A DC (US/EU standards, CE/FCC/UL certified)
Dimensions: 98mm (W) x 152mm (D) x 25mm (H)
Gross Weight: 740g **Net. Weight:** 340g

FEATURES

- Supports uncompressed video/audio up to 10.2Gbps
- Supports resolutions VGA~WUXGA, 480i~1080p, 4K UHD@24/25/30Hz (RGB 4:4:4 & YUV 4:2:2), 4K UHD@ 60Hz (YUV 4:2:0), 4K/2K@24/25/30Hz (RGB 4:4:4 & YUV 4:2:2) and 4K/2K@ 60Hz (YUV 4:2:0) dependent upon the output display's EDID settings
- HDMI, HDCP and DVI compliant
- High Definition Audio supported: Dolby TrueHD, Dolby Digital Plus and DTS-HD Master Audio plus LPCM (up to 192kHz)
- Supports RS-232, 2-Way IR, and HDMI CEC control pass through
- Full 5-Play™ Convergence - HDMI, LAN, PoC, & Control (RS-232 & IR)
- Supports 3D signals
- Supports LAN serving to all connected zones



Pure digital HDMI over Single CAT6 Transmitter

PU-1107TX



3D **HDMI**

The PU-1107TX can transmit a pure digital HDMI signal over a Single CAT6 cable allowing HD Audio & 'deep colour' support. This Transmitter unit is designed to be used together with the PU-1107RX receiver to extend HDMI signals to a single screen.

SPECIFICATIONS

Input: 1x HDMI (1x HDMI Uncompressed AV and Data)

Output: 1x RJ45 (1x HDMI & Proprietary Data)

Power: 5V/1A DC (US/EU standards, CE/FCC/UL certified)

Dimensions: 80mm (W) x 102mm (D) x 32mm (H)

Gross Weight: 380g

Net. Weight: 300g

FEATURES

- v1.3 HDMI, HDCP 1.1, DVI 1.0 compliant
- Pure digital v1.3 HDMI over single CAT6 Transmitter with Repeater function
- Resolution supported: HDTV - 480i to 1080p plus 1080p 24fps.
- Resolution supported: PC - VGA to WUXGA
- High Definition Audio supported: Dolby TrueHD, Dolby Digital Plus and DTS-HD Master Audio plus LPCM.
- Supports CEC bypass
- Supports xvYCC
- Equalises and recovers incoming TMDS data before re-transmitting to ensure optimum signal quality
- Enables CAT6 cable lengths of up to 40m 1080p 8bit video
- Supports 3D signals



Pure digital HDMI over Single CAT6 Receiver

PU-1107RX



3D HDMI

The PU-1107RX can receive a pure digital HDMI signal over a Single CAT6 cable allowing HD Audio & 'deep colour' support. This Receiver unit is designed to be used with the PU-1107TX to extend HDMI to a single screen, and the PU-Q1H8CS Splitter for converting the splitters' single CAT6 outputs, back to HDMI for connection to your displays.

SPECIFICATIONS

- Input:** 1x RJ45 (1x HDMI & Proprietary Data)
Output: 1x HDMI (1x HDMI Uncompressed AV and Data)
Power: 5V/1.2A DC (US/EU standards, CE/FCC/UL certified)
Dimensions: 79mm (W) x 75mm (D) x 30mm (H)
Gross Weight: 380g
Net. Weight: 280g

FEATURES

- v1.3 HDMI, HDCP 1.1, DVI 1.0 compliant
- Pure digital v1.3 HDMI over single CAT6 Receiver
- Resolution supported: HDTV - 480i to 1080p plus 1080p 24fps.
- Resolution supported: PC - VGA to WUXGA
- High Definition Audio supported: Dolby TrueHD, Dolby Digital Plus and DTS-HD Master Audio plus LPCM.
- Supports CEC bypass
- Supports xvYCC
- Equalises and recovers incoming TMDS data before re-transmitting to ensure optimum signal quality.
- Supports Deep Colour: 10 and 12 bit
- Supports 3D signals



HDMI over CAT5e/6 Transmitter with IR Emitter

PU-1106TX



3D HDMI

The PU-1106TX Transmitter allows you to extend HDMI signals over Twin CAT6 cabling infrastructure and use your existing Remote Control to control your source device with the included IR Blaster.

The PU-1106TX is specifically designed to be used with the PU-1106RX Receiver.

SPECIFICATIONS

Input:	1x HDMI (1x HDMI Uncompressed AV and Data)
Output:	2x RJ45 (1x HDMI & Proprietary Data) 1x 3.5mm Stereo mini-jack (1x Infra Red Emitter)
Power:	5V/1.2A DC (US/EU standards, CE/FCC/UL certified)
Dimensions:	80mm (W) x 100mm (D) x 30mm (H)
Gross Weight:	440g
Net. Weight:	340g

FEATURES

- v1.3 HDMI, HDCP 1.1 and DVI 1.1 compliant.
- v1.3 HDMI over CAT6 Transmitter with IR Blaster
- Resolutions supported: HDTV - 480i to 1080p plus 1080p24fps.
- Resolutions supported: PC - VGA to WXGA
- High Definition Audio supported: Dolby TrueHD, Dolby Digital Plus and DTS-HD Master Audio plus LPCM.
- Compatible with CAT-5E and CAT-6 cables. CAT-6 is recommended for better performance
- Supports CEC functions & IR Receiver
- CAT I/O can run up to 40m @ 1080p8bit video and can be extended with the PU-108 CAT repeater.
- Supports 'Deep Colour': 10 & 12 bit
- Equalises and recovers incoming TMDS data before re-transmitting to ensure optimum signal quality.
- Supports xvYCC.
- Supports 3D signals.



HDMI over CAT5e/6 Receiver with IR Receiver

PU-1106RX



3D HDMI

The PU-1106RX Receiver allows you to extend HDMI signals up to 40m over Twin CAT6 cabling infrastructure and use your existing Remote Control to control your source device with the included IR Receiver.

The PU-1106RX is specifically designed to be used with the PU-1106TX Transmitter.

SPECIFICATIONS

- Input:** 2x RJ45 (1x HDMI & Proprietary Data)
1x 3.5mm Stereo mini-jack (1x Infra Red Receiver)
- Output:** 1x HDMI (1x HDMI Uncompressed AV and Data)
- Power:** 5V/1.2A DC (US/EU standards, CE/FCC/UL certified)
- Dimensions:** 77mm (W) x 73mm (D) x 30mm (H)
- Gross Weight:** 420g
- Net. Weight:** 140g

FEATURES

- v1.3 HDMI, HDCP 1.1 and DVI 1.1 compliant.
- v1.3 HDMI over CAT5e/6 Receiver with IR Receiver
- Resolutions supported: HDTV - 480i to 1080p plus 1080p24fps.
- Resolutions supported: PC - VGA to WXGA
- High Definition Audio supported: Dolby TrueHD, Dolby Digital Plus and DTS-HD Master Audio plus LPCM.
- Compatible with CAT-5E and CAT-6 cables. CAT-6 is recommended for better performance
- Supports CEC functions & IR Receiver
- CAT I/O can run up to 40m @ 1080p8bit video and can be extended with the PU-108 CAT repeater.
- Supports 'Deep Colour': 10 & 12 bit
- Equalises and recovers incoming TMDS data before re-transmitting to ensure optimum signal quality.
- Supports xvYCC.
- Supports 3D signals.





Switchers & Splitters

When reliability is the ultimate consideration, it doesn't matter if the products at either end of the signal path are the best in the market; if the link between the source and display is anything less than perfect, it will have a detrimental effect on performance. At CYP, we have been developing a wide range of solutions for over 20 years, with reliability always the number one consideration.

Our range of switching and splitting products encompass solutions that are perfect for commercial applications such as conference rooms, custom install applications, and retail environments alike.

8 x 4 HDBaseT™ / HDMI / VGA Presentation Switch

with switchable digital bypass output

EL-5500-HBT



3D **HDMI** **HDBT** **ADC** **DAC** **PoC**

The EL-5500-HBT is an advanced rack mountable HDBaseT, HDMI, VGA, Composite, and Component presentation switcher. This device can scale and switch eight input sources to its two HDMI outputs and a single HDBaseT output, with their associated audio signals to the native resolutions supported by the connected display. This presentation switch also features a switchable digital bypass output allowing any HDMI or HDBaseT input to be directly bypassed via the HDMI bypass output.

Control is via the IR remote, RS-232, IP, or via manual selection buttons. Both digital and analogue stereo audio is supported via a built-in DAC (Digital to Analogue Converter) and ADC (Analogue to Digital Converter) providing flexible audio signal integration. The EL-5500-HBT is the perfect solution for any educational or commercial environment requiring integration of multiple sources and signal formats to three HDMI displays.

FEATURES

- HDMI, HDCP, and DVI compliant
- Digital to Analogue & Analogue to Digital Audio conversion (DAC/ADC)
- Supported Resolutions: HDTV: 480i to 1080p PC: VGA to WUXGA
- Aspect Ratio Adjustment
- Motion Adaptive De-interlace (3D)
- Video Noise Reduction
- Underscan / Overscan Selection
- Picture Adjustment Settings
- HDBaseT Outputs support PoC (Power over Cable) through to compatible connected receiver
- Independent HDMI bypass output (switching digital inputs only)
- Supports HDBaseT LAN Serving function
- Supports IR/RS-232/IP and front panel button control

SPECIFICATIONS

Input:	4x HDMI (4x HDMI Uncompressed AV & Data) 4x 3.5mm Stereo mini-jack (4x Analogue inputs for HDMI Stereo(L/R)) 2x RJ45 (2x HDBaseT HDMI & Proprietary Data) 1x 15pin Dsub (1x PC RGBHV) 1x 3.5mm Stereo mini-jack (1x Analogue input for PC Stereo(L/R)) 1x RCA (1x Composite) 2x RCA (1x Analogue input for Composite Stereo (L/R)) 1x RJ45 (1x LAN Serving) 1x 9pin DSub (1x RS-232 Data) 1x 3.5mm Stereo mini-jack (1x Infra Red Receiver) 1x USB Type A (1x Service Port 1 Proprietary Data) 1x USB Mini B (1x Service Port 2 Proprietary Data) 1x 3.5mm Stereo mini-jack (1x Service Port 3 Proprietary Data)
Output:	2x HDMI (2x HDMI Uncompressed AV & Data) 1x RJ45 (1x HDBaseT HDMI & Proprietary Data) 1x RCA (1x Coaxial 2 Channel LPCM) 1x 3.5mm Stereo mini-jack (1x Analogue Stereo(L/R)) 1x HDMI (1x HDMI Bypass Uncompressed AV & Data) 1x 3.5mm Stereo mini-jack (1x Analogue Bypass Stereo(L/R))
Power:	24V/2.7A DC (US/EU standards, CE/FCC/UL certified)
Dimensions:	440mm (W) x 260mm (D) x 50mm (H)

Gross Weight: 4460g **Net. Weight:** 3200g

COMPATIBLE RECEIVERS (RX)

PU-507RX

See Page 87

for specification

PU-507WPRX

See Page 88

for specification



Advanced HDMI/VGA Presentation Switch

EL-5500



3D **HDMI** **ADC** **DAC**

The EL-5500 is an advanced rack mountable HDMI, VGA, Composite, and Component presentation switcher. This device can scale and switch input sources to its two HDMI outputs, with their associated audio signals to the native resolutions supported by the connected display. Control is via the IR remote, RS-232, IP, or via manual selection buttons. Both digital and analogue stereo audio is supported via a built-in DAC (Digital to Analogue Converter) and ADC (Analogue to Digital Converter). The EL-5500 is the perfect solution for any educational or commercial application requiring integration of multiple sources and signal formats to two HDMI displays.

FEATURES

- v1.3 HDMI, HDCP 1.1 and DVI 1.0 compliant
- Digital to Analogue & Analogue to Digital Audio conversion (DAC/ADC)
- Supported Resolutions: HDTV: 480i to 1080p PC: VGA to WUXGA
- Aspect Ratio Adjustment
- Motion Adaptive De-interlace (3D)
- Video Noise Reduction
- Underscan / Overscan Selection
- Picture Adjustment Settings

SPECIFICATIONS

Input:	3x HDMI (3x HDMI Uncompressed AV and Data) 3x 15pin Dsub (3x VGA RGBHV) 6x 3.5mm Stereo mini-jack (6x Analogue Stereo(L/R)) 3x RCA (1x YPbPr Component / YCbCr Component) 1x RCA (1x Composite) 4x RCA (2x Analogue Stereo (L/R)) 1x RJ45 (1x IP Control) 1x 9pin Dsub (1x RS-232 Data) 1x USB Type A (1x Service Port - Proprietary Data)
Output:	2x HDMI (2x HDMI Uncompressed AV and Data) 1x 15pin Dsub (1x VGA - RGBHV / YPbPr Component / YCbCr Component) 1x 3.5mm Stereo mini-jack (1x Analogue Stereo(L/R)) 1x RCA (1x Coax Digital - 2 Channel LPCM)
Power:	5V/3A DC (US/EU standards, CE/FCC/UL certified)
Dimensions:	433mm (W) x 180mm (D) x 44mm (H)
Gross Weight:	2940g
Net. Weight:	2140g

Matrices

Audio

Extenders

Switchers & splitters

Scalers & Converters

Other AV

HDMI/VGA/Display Port Presentation Switch & Scaler

with HDMI & HDBaseT™ LITE Outputs

EL-5400-HBT



3D HDMI HDBT PoC

This HDMI/DisplayPort/VGA to HDMI Scaler with HDBaseT LITE Output is designed to switch and scale up to 5 AV inputs to simultaneous HDMI and HDBaseT LITE outputs at resolutions up to 1080p/WUXGA. The HDBaseT LITE output enables the user to send the signals up to 60m over a single CAT5e/6/7 cable and supports PoC (Power over Cable) to provide power to the connected HDBaseT LITE receiver (PU-515PL-RX). Additionally, this device offers 3 analogue Line level audio inputs, a switchable Microphone input and a Line level output

The microphone input features a 48V 'Phantom' power mode for use with professional microphones. The audio DSP engine provides auto-mixing and auto-gain control to mix or reduce the background audio in order to enhance the main audio source. The system can be controlled and easily configured via WebGUI, IR remote control or RS-232. This device is an ideal solution for presentation facilities within a classroom and/or conference room.

SPECIFICATIONS

Input: 2x HDMI Uncompressed AV and Data [1x HDMI]
1x Display Port Uncompressed AV [1x Display Port]
2x VGA RGBHV [1x 15pin Dsub]
1x Microphone [1x 6.35mm Stereo Jack]
3x Analogue Stereo(L/R) [1x 3.5mm Stereo mini-jack]
1x Infra Red Receiver [1x 3.5mm Stereo mini-jack]
1x RS-232 [1x 3.5mm Stereo mini-jack]
1x RS-232 Data [1x 9pin Dsub]
1x IP Control [1x RJ45]
1x Direct switching control port [1x Phoenix (6 pin)]
1x Service Port Proprietary Data [1x USB Type A]

Output: 1x HDMI Uncompressed AV and Data [1x HDMI]
1x HDBaseT HDMI & Proprietary Data [1x RJ45]
1x Analogue Stereo(L/R) [1x 3.5mm Stereo mini-jack]
1x Infra Red Emitter [1x 3.5mm Stereo mini-jack]

Power: 24V/3.75A DC (US/EU standards, CE/FCC/UL certified)

Dimensions: 156mm (D) x 219mm (W) x 43mm (H)

Gross Weight: 1800g **Net. Weight:** 1215g

FEATURES

- Supports HDMI 1.4 (including HDCP) over a single CAT5e/6/7 up to 60m
- Complies with HDBaseT™- Lite specifications
- Supports multiple inputs: 2x HDMI, 2x VGA and 1x DisplayPort, 3x Unbalanced Audio, 1x MIC In (48V phantom selection)
- Provides simultaneous HDMI and HDBaseT LITE outputs
- Supports HDTV resolutions up to 1080p (VGA to WUXGA)
- Audio DSP offers auto-mixing and auto-gain control for mixing or reducing background audio
- Supports Internal EDID
- Supports pass-through of PCM 2CH
- Supports control via WebGUI, IR remote and RS-232
- Supports IR In and IR Out to receive or transmit IR signal from compatible HDBaseT receiver with bi-directional RS-232 control
- Input control provides direct input source selection

COMPATIBLE RECEIVERS (RX)

PU-515PL-RX

See Page 91

for specification



HDMI/VGA/Display Port Presentation Switch

EL-5400



3D HDMI ADC DAC

The EL-5400 is a HDMI, VGA, and Display Port presentation switcher with added 3D to 2D conversion capabilities. This device can scale and switch HDMI, DisplayPort, PC and Component inputs to its HDMI output, with their associated audio signals to the native resolutions supported by the connected display. Control is via the IR remote, or RS-232 protocol.

SPECIFICATIONS

- Input:**
- 2x HDMI (2x HDMI Uncompressed AV and Data)
 - 1x Display Port (1x Display Port Uncompressed AV)
 - 1x 15pin Dsub (1x RGBHV / YCbCr Component / YPbPr Component)
 - 1x Toslink (1x Toslink 2 Channel LPCM / DTS / Dolby Digital)
 - 1x 3.5mm Stereo mini-jack (1x Analogue Stereo(L/R))
 - 1x 9pin Dsub (1x RS-232 Data)
- Output:**
- x HDMI (1x HDMI Uncompressed AV and Data)
 - 1x Toslink (1x Toslink 2 Channel LPCM / DTS / Dolby Digital)
 - 1x 3.5mm Stereo mini-jack (1x Analogue Stereo(L/R))
- Power:** 5V/2.6A DC (US/EU standards, CE/FCC/UL certified)
- Dimensions:** 142mm (D) x 185mm (W) x 45mm (H)
- Gross Weight:** 122g
- Net. Weight:** 70g

FEATURES

- v1.3 HDMI, HDCP 1.1 and DVI 1.0 compliant
- Integrate and switch HDMI, VGA, and Display Port sources to a single HDMI output
- Audio de-embedding from a HDMI input
- Digital to Analogue & Analogue to Digital Audio conversion (DAC/ADC)
- 3D to 2D conversion with 3D signal bypass
- Detection of native screen resolution (EDID based)
- Resolutions Supported: HDTV: 480i to 1080p plus 1080p 24fps PC: VGA to WUXGA
- Audio Support: Dolby Digital, Dolby DTS, Dolby Digital Plus, Dolby True HD, DTS-HD Master Audio, LPCM Multi-channel, LPCM Stereo, Analogue Stereo



2 x 8 HDMI HDBaseT™ Switch

with Audio De-Embedding

PU-2H8HBTE-AD



4K 3D HDMI HDBT PoC LAN

The PU-2H8HBTE-AD HDBaseT switch has two HDMI inputs and eight HDBaseT outputs, plus a single HDMI output. This device allows the user to select either HDMI source for distribution to all screens simultaneously. Each HDBaseT output supports the transmission of video (resolutions up to 1080p Full HD, plus 4K Ultra High Definition, and 1920x1200@60Hz), multi-channel audio, single LAN serving, and control via 2-way IR, RS-232 or Web GUI/Telnet IP over a single CAT5e/6/7 cable (up to 100m). The HDMI output supports the same video resolutions and high definition audio via certified HDMI cables up to 15m.

For additional flexibility, the PU-2H8HBTE-AD is provided with Audio De-Embedding functionality

allowing easy audio integration into a wider AV system or direct connection to an AVR. Audio outputs are via a single Optical connection or an Analogue Stereo output (2x RCA).

The HDBaseT outputs are designed to be used with either the PU-507RX or PU-507WPRX HDBaseT Receiver.

These Receivers support Power over Cable (PoC) function so do not require a separate PSU for power. Use the LAN serving capabilities of this switch to add internet connectivity to every HDBaseT output zone. In addition, this switch 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 such as Control 4.



FEATURES

- HDMI, HDCP and DVI compliant
- Supports resolutions VGA~WUXGA, 480i~1080p, 4K UHD@24/25/30Hz (RGB 4:4:4 & YUV 4:2:2), 4K UHD@ 60Hz (YUV 4:2:0), 4K/2K@24/25/30Hz (RGB 4:4:4 & YUV 4:2:2) and 4K/2K@ 60Hz (YUV 4:2:0) dependent upon the output display's EDID settings
- High Definition Audio supported: Dolby TrueHD, Dolby Digital Plus and DTS-HD Master Audio plus LPCM (up to 192kHz)
- Supports 1080p distances up to 100 meters through CAT5e/6 cables
- Supports HDMI input up to 15m 1080p 8bit or 10m 1080p 12bit.
- Supports RS-232, 2-Way IR, Manual Selection Buttons, and Web GUI/Telnet IP for control
- HDBaseT outputs support Power over Cable (PoC) with compatible receiver units
- Supports LAN serving to all connected HDBaseT zones
- Supports 3D signals and 4K Ultra High Definition
- Supports 4K/2K & 4K UHD - CAT5e/6 = 70m & CAT6a/7 = 100m

SPECIFICATIONS

Input:	2x HDMI (2x HDMI Uncompressed AV and Data) 1x 9pin Dsub (1x RS-232 Data) 1x RJ45 (1x LAN Serving) 1x 3.5mm Stereo mini-jack (1x Infra Red Receiver) 1x USB Mini B (1x Service Port Proprietary Data)
Output:	8x RJ45 (8x HDBaseT HDMI & Proprietary Data) 1x HDMI (1x HDMI Uncompressed AV and Data) 1x 3.5mm Stereo mini-jack (1x Infra Red Emitter) 2x RCA (1x Analogue Stereo (L/R)) 1x Toslink (1x Optical 2 Channel LPCM)
Power:	24V/6.25A DC (US/EU standards, CE/FCC/UL certified)
Dimensions:	440mm (W) x 280mm (D) x 50mm (H)
Gross Weight:	4460g
Net. Weight:	3200g

Compatible HDBaseT Receivers (RX)

PU-507RX

See Page 87
for specification



PU-507WPRX

See Page 88
for specification



4 x 2 HDMI Seamless Switch (4K)

with Integrated Multi-View (Picture in Picture) Technology

EL-42PIP



4K 3D HDMI PiP

The EL-42PIP is an advanced 4 Way HDMI switch with integrated Multi-view (Picture In Picture) technology. This plug and play solution offers advanced control and display options for the integration of four 1080p HDMI sources and output 4K (4x 1080P) to two compatible displays. The output to each connected screen can be independently configured to display the desired sources either in full screen mode or picture-in-picture (PiP) mode. Additional flexibility is provided with on-board pre-configured PiP settings or create and save your favourite custom output configurations to suit any AV installation.

Control is via preset hot keys, OSD, IR, RS-232 and Telnet for instant control and switching. The WebGUI feature allows complete control over the size, position and setting of the source images independently to each output.

The EL-42PIP is the perfect cost effective solution for integrating CCTV or a combination of HDMI sources to two independent displays within any commercial or residential AV installation.

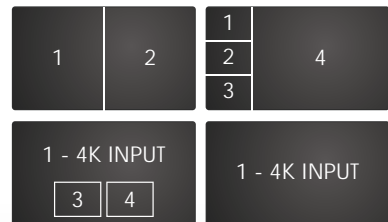
SPECIFICATIONS

- Input:** 4x HDMI (4x HDMI Uncompressed AV and Data)
1x 9pin Dsub (1x RS-232 Data)
1x USB Type A (1x Service - Proprietary Data)
- Output:** 2x HDMI (2x HDMI Uncompressed AV and Data)
- Power:** 12V/3A DC (US/EU standards, CE/FCC/UL certified)
- Dimensions:** 269mm (D) x 438mm (W) x 52mm (H)
- Gross Weight:** 4500g
- Net. Weight:** 3200g

FEATURES

- Integration of up to 4 sources to two independent displays
- Supports 8 preset screen layout configurations & an additional 4 custom configurations
- Seamless switching channels and on screen windows
- Fade in / out display functionality
- Ability to mirror and rotate images
- Zoom & Shrink HDMI Video and / or Overlay
- Supports adjustment of individual channel size and position
- Resolutions supported : HDTV: 480i to 1080p, 1080p@24, 4K2K@30; PC: VGA to WUXGA@60(RB)
- Supports 4K@24/25/30 on HDMI inputs 1 & 3 only
- Supports IR, On-screen Display (OSD), RS232, Telnet/WebGUI, Remote and on-panel controls

SCREEN CONFIGURATIONS



4-Way HDMI Switch

with Integrated Multi-View (Picture in Picture) Technology

EL-41PIP



3D **HDMI** **PIP**

The EL-41PIP is an advanced 4Way HDMI switch with integrated Multi-view (Picture In Picture) technology. This plug and play solution offers advanced control and display options for the integration of 4 sources onto a single display. The EL-41PIP is the perfect cost effective solution for integrating CCTV or a combination of sources into any single display within any commercial or residential AV installation.

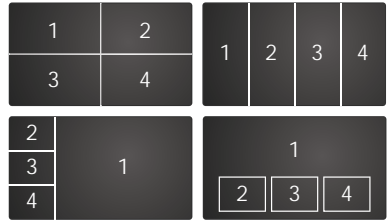
SPECIFICATIONS

- Input:** 4x HDMI (4x HDMI Uncompressed AV and Data)
1x 9pin Dsub (1x RS-232 Data)
1x USB Mini B (1x Service Port - Proprietary Data)
- Output:** 1x HDMI (1x HDMI Uncompressed AV and Data)
- Power:** 12V/3A DC (US/EU standards, CE/FCC/UL certified)
- Dimensions:** 254mm (D) x 435mm (W) x 50mm (H)
- Gross Weight:** 4460g
- Net. Weight:** 2900g

FEATURES

- Integration of up to 4 sources on a single display
- Multiple screen layout configurations
- Seamless switching channels and on screen windows
- Fade in / out display functionality
- Ability to mirror and rotate images
- Zoom & Shrink HDMI Video and / or Overlay
- Resolution supported : HDTV: 480i to 1080p plus 1080p24fps; PC: VGA to UXGA

SCREEN CONFIGURATIONS



4-Way HDMI Switcher with 2 Identical Outputs

EL-42S



3D HDMI

The EL-42S switcher allows the user to input four HDMI sources and switch between these sources to display HD content on 2 displays. This switcher can be controlled via the supplied remote control, RS-232, or by using the input switching button on the front of the device.

SPECIFICATIONS

Input: 4x HDMI (4x HDMI Uncompressed AV and Data)
Output: 2x HDMI (2x HDMI Uncompressed AV and Data)
Power: 5V/2.6A DC (US/EU standards, CE/FCC/UL certified)
Dimensions: 240mm (W) x 104mm (D) x 50mm (H)
Gross Weight: 820g
Net. Weight: 600g

FEATURES

- v1.3 HDMI, HDCP 1.1 and DVI 1.0 compliant
- HDMI 4 Way Switcher with 2 Identical Outputs
- Resolutions Supported: PC - VGA, SVGA, XGA, SXGA, UXGA & WUXGA (1920x1200). HDTV - 480i, 576i, 480p, 576p, 720p, 1080i, 1080p and 1080p24fps
- High Definition Audio supported - Dolby TrueHD, Dolby Digital Plus and DTS-HD Master Audio plus LPCM
- Auto signal enhancement feature can improve signal quality after long distance transmission
- RS232 & IR Remote Control
- Supports 'Deep Colour' (10 & 12 bit)
- Dual HDMI outputs for simultaneous connection to two HD Displays
- Supports 3D signals
- Supports xvYCC



4-Way Advanced HDMI Switcher

4K, HDCP2.2, HDMI2.0, IR, RS-232, IP, Web GUI

EL-41HP-4K22



4K

3D

HDMI2.0

HDCP2.2

This 4-Way HDMI Switcher is designed to enable the user to switch between any of the four connected HDMI sources to send video and audio to a single HDMI display. This switcher fully supports 4K resolutions and is HDMI2.0 and HDCP 2.2 compliant, ensuring maximum compatibility with the latest 4K UHD sources and displays.

The EL-41HP-4K22 supports all the latest features of the HDMI 2.0 specification such as 4K UHD resolutions (4K2K@60Hz - YUV4:4:4), HDR (High Dynamic Range), 'Deep Color', and High Definition audio. In addition, this switcher also features an Auto-Switching function which detects the last active input and switches to this input automatically for display. The management of source/sink configurations can be easily controlled via the on-board WebGUI LAN control, IR remote control and RS-232.

FEATURES

- HDMI2.0, HDCP 2.2 and DVI compatible
- Supports 4 HDMI inputs and 1 HDMI output
- Supports HDTV resolutions up to 4K2K (3840x2160@24/25/30/50/60 & 4096x2160 @24/25/30/50/60Hz)
- Supports pass-through of HD audio formats of PCM 2/5.1/7.1CH, Dolby Digital 2/5.1CH, DTS 2/5.1CH, Dolby Digital Plus, Dolby TrueHD, Dolby Atmos and DTS-HD Master Audio
- Supports control via Telnet, WebGUI, IR remote and RS-232
- Supports Auto-switching which can send the signal of the latest active HDMI input source to output port

SPECIFICATIONS

Input:	4x HDMI (4x HDMI Uncompressed AV and Data) 1x 3.5mm Stereo mini-jack (1x Infra Red Receiver) 1x 9pin Dsub (1x RS-232 Data) 1x RJ45 (1x Telnet & WebGUI IP) 1x USB Type A (1x Service Port Proprietary Data)
Output:	1x HDMI (1x HDMI Uncompressed AV and Data)
Power:	5V/2.6A DC (US/EU standards, CE/FCC/UL certified)
Dimensions:	219mm (W) x 156mm (D) x 43mm (H)
Gross Weight:	1400g
Net. Weight:	1300g



4-Way HDMI Switcher

4K, HDCP2.2, HDMI2.0, IR

EL-41S-4K22



4K 3D HDMI2.0 HDCP2.2 IR

This 4-Way HDMI Switcher is designed to enable the user to switch between any of the four connected HDMI sources to send video and audio to a single HDMI display. This switcher fully supports 4K resolutions and is HDMI2.0 and HDCP 2.2 compliant, ensuring maximum compatibility with the latest 4K UHD sources and displays. The EL-41S-4K22 supports all the latest features of the HDMI 2.0 specification such as 4K UHD resolutions (4K2K@60Hz - YUV4:4:4), HDR (High Dynamic Range), 'Deep Color', and High Definition audio. In addition, this switcher also features an Auto-Switching function which detects the last active input and switches to this input automatically for display. The management of source/sink configurations can be easily controlled via the on-board WebGUI LAN control, IR remote control and RS-232.

FEATURES

- HDMI2.0, HDCP 2.2 and DVI compatible
- Supports 4 HDMI inputs and 1 HDMI output
- Supports HDTV resolutions up to 4K2K (3840x2160@24/25/30/50/60 & 4096x2160 @24/25/30/50/60Hz)
- Supports pass-through of HD audio formats of PCM 2/5.1/7.1CH, Dolby Digital 2/5.1CH, DTS 2/5.1CH, Dolby Digital Plus, Dolby TrueHD, Dolby Atmos and DTS-HD Master Audio
- Supports control via IR remote and RS-232
- Supports Auto-switching which can send the signal of the latest active HDMI input source to output port

SPECIFICATIONS

Input:	4x HDMI (4x HDMI Uncompressed AV and Data) 1x 3.5mm Stereo mini-jack (1x Infra Red Receiver) 1x 9pin Dsub (1x RS-232 Data) 1x RJ45 (1x Telnet & WebGUI IP) 1x USB Type A (1x Service Port Proprietary Data)
Output:	1x HDMI (1x HDMI Uncompressed AV and Data)
Power:	5V/2.6A DC (US/EU standards, CE/FCC/UL certified)
Dimensions:	219mm (W) x 156mm (D) x 43mm (H)
Gross Weight:	1400g
Net. Weight:	1300g



4-Way HDMI Switcher

EL-41SY



3D **HDMI**

The EL-41SY switcher allows the user to input four HDMI sources and switch between these sources to provide a single HDMI output to a display. This switcher can be controlled via the supplied remote control or by using the input switching button on the front of the device.

SPECIFICATIONS

Input: 4x HDMI (4x HDMI Uncompressed AV and Data)
Output: 1x HDMI (1x HDMI Uncompressed AV and Data)
Power: 5V/2.6A DC (US/EU standards, CE/FCC/UL certified)
Dimensions: 201mm (W) x 104mm (D) x 25mm (H)
Gross Weight: 640g
Net. Weight: 420g

FEATURES

- v1.3 HDMI, HDCP 1.1 and DVI 1.0 compliant
- HDMI 4-way Switcher
- Resolutions Supported: PC - VGA, SVGA, XGA, SXGA, UXGA & WUXGA (1920x1200). HDTV - 480i, 576i, 480p, 576p, 720p, 1080i, 1080p and 1080p24fps.
- High Definition Audio supported - Dolby TrueHD, Dolby Digital Plus and DTS-HD Master Audio plus LPCM
- Auto signal enhancement feature can improve signal quality after long distance transmission
- IR Remote Control
- Supports 'Deep Colour' (8, 10 & 12 bit)
- LED indicators
- Supports xvYCC
- Supports 3D signals



3-Way HDMI Switcher

EL-31SY



3D **HDMI**

The EL-31SY switcher allows the user to input three HDMI sources and switch between these sources to provide a single HDMI output to a display. This switcher can be controlled via the supplied remote control or by using the input switching button on the front of the device.

SPECIFICATIONS

Input: 3x HDMI (3x HDMI Uncompressed AV and Data)

Output: 1x HDMI (1x HDMI Uncompressed AV and Data)

Power: 5V/1A
DC (US/EU standards, CE/FCC/UL certified)

Dimensions: 200mm (W) x 105mm (D) x 32mm (H)

Gross Weight: 640g

Net. Weight: 420g

FEATURES

- v1.3 HDMI, HDCP 1.1 and DVI 1.0 compliant
- HDMI 3-way Switcher
- Resolutions Supported: PC - VGA, SVGA, XGA, SXGA, UXGA & WUXGA (1920x1200). HDTV - 480i, 576i, 480p, 576p, 720p, 1080i, 1080p and 1080p24fps.
- High Definition Audio supported - Dolby TrueHD, Dolby Digital Plus and DTS-HD Master Audio plus LPCM
- Auto signal enhancement feature can improve signal quality after long distance transmission
- IR Remote Control
- Supports 'Deep Colour' (10, 12 & 16 bit)
- LED indicators
- Supports xvYCC
- Supports 3D signals



2-Way HDMI Switcher

EL-215Y



3D HDMI

The EL-215Y switcher accepts two HDMI inputs and allows the user to switch between two input sources to provide a single HDMI output for connection to the HDMI display. This switcher has an auto-detect function which will switch the unit when a source which is powered 'On'. Alternatively, the input can be selected manually using the input selection button on the device.

SPECIFICATIONS

Input: 2x HDMI (2x HDMI Uncompressed AV and Data)
Output: 1x HDMI (1x HDMI Uncompressed AV and Data)
Power: 5V/1A DC (US/EU standards, CE/FCC/UL certified)
Dimensions: 101mm (W) x 92mm (D) x 25mm (H)
Gross Weight: 520g
Net. Weight: 380g

FEATURES

- v1.3 HDMI, HDCP 1.1 and DVI 1.0 compliant
- HDMI 2-way Switcher
- Resolutions Supported: PC - VGA, SVGA, XGA, SXGA, UXGA & WUXGA (1920x1200). HDTV - 480i, 576i, 480p, 576p, 720p, 1080i, 1080p and 1080p24fps
- High Definition Audio supported - Dolby TrueHD, Dolby Digital Plus and DTS-HD Master Audio plus LPCM
- Auto signal enhancement feature can improve signal quality after long distance transmission
- Auto-switch design
- Supports 'Deep Colour' (10, 12, & 16 bit)
- LED indicators
- Supports xvYCC
- Supports 3D signals



1 to 16 HDMI Distribution Amplifier

4K resolution support

QU-16E-4K



4K 3D HDMI

The QU-16E-4K is a versatile 1 to 16 HDMI distribution amplifier. This product is designed to be used in a 19" rack and will distribute uncompressed HDMI signals up to 4K resolutions. Each buffered output can run 1080p/8-bit up to 10 metres and can be cascaded up to two layers.

SPECIFICATIONS

- Input:** 1x HDMI (1x HDMI Uncompressed AV and Data)
1x USB Type B (1x Service Port Proprietary Data)
- Output:** 16x HDMI (16x HDMI Uncompressed AV and Data)
- Power:** 5V/6A DC (US/EU standards, CE/FCC/UL certified)
- Dimensions:** 435mm (W) x 125mm (D) x 50mm (H)
- Gross Weight:** 1720g
- Net. Weight:** 1320g

FEATURES

- HDMI 1.3, HDCP 1.4 and DVI 1.0 compliant
- Supports resolutions VGA~WUXGA, 480i~1080p, 4K UHD@24/25/30Hz (RGB 4:4:4 & YUV 4:2:2), 4K UHD@60Hz (YUV 4:2:0), 4K/2K@24/25/30Hz (RGB 4:4:4 & YUV 4:2:2) and 4K/2K@60Hz (YUV 4:2:0) dependent upon the output display's EDID settings
- High Definition Audio supported: LPCM 7.1Ch, Dolby TrueHD, Dolby Digital Plus and DTS-HD Master Audio transmission (32-192kHz Fs sample rate)
- Supports xvYCC
- Supports 3D signals
- 4K Resolution Support



1 to 10 HDMI Distribution Amplifier

4K, HDCP2.2, HDMI2.0

QU-10-4K22



4K

3D

HDMI2.0

HDCP2.2

The QU-10-4K22 Distribution Amplifier (splitter) accepts one HDMI input and splits this signal to ten identical outputs. This device supports 4K2K Ultra-High Definition video with HDMI2.0 and HDCP2.2 compliance. In addition, 3D Video signals and High Definition Audio formats such as LPCM 7.1CH, Dolby TrueHD, Dolby Digital Plus, Dolby Atmos and DTS-HD Master Audio, audio sampling rate up to 192kHz are also supported.

SPECIFICATIONS

Input:	1x HDMI (1x HDMI 2.0 Uncompressed AV and Data) 1x USB Mini B (1x Service - Proprietary Data)
Output:	10x HDMI (10x HDMI 2.0 Uncompressed AV and Data)
Power:	5V/2.6A DC (US/EU standards, CE/FCC/UL certified)
Dimensions:	436mm (W) x 160mm (D) x 44mm (H)
Gross Weight:	2600g
Net. Weight:	2000g

FEATURES

- HDMI 2.0, HDCP 2.2 and DVI compliant
- Supports UHDTV resolutions up to 4K2K: 3840x2160@24/25/30/50/60Hz & 4096x2160 @24/25/30/60Hz
- Supports passthrough of high definition audio: LPCM 2/5.1/7.1CH, Dolby Digital 2/5.1CH, DTS 2/5.1CH, Dolby TrueHD, DTS-HD Master Audio & Dolby Atmos
- Supports System Reset function (CEC active source command) allows the unit to reset the TV to its default HDMI input automatically
- HDMI input supports 'Standard' mode and 'TV' mode EDID settings
- Input and output status are indicated on the front panel



1 to 8 HDMI Distribution Amplifier

4K, HDCP2.2, HDMI2.0

QU-8-4K22



4K 3D HDMI2.0 HDCP2.2

The QU-8-4K22 Distribution Amplifier (splitter) accepts one HDMI input and splits this signal to eight identical outputs. This device supports 4K2K Ultra-High Definition video with HDMI2.0 and HDCP2.2 compliance. In addition, 3D Video signals and High Definition Audio formats such as LPCM 7.1CH, Dolby TrueHD, Dolby Digital Plus, Dolby Atmos and DTS-HD Master Audio, audio sampling rate up to 192kHz are also supported. This HDMI Distribution Amplifier can also be cascaded up to 3 layers.

SPECIFICATIONS

Input: 1x HDMI [1x HDMI Uncompressed AV and Data]
1x USB Mini B [1x Service Port Proprietary Data]

Output: 8x HDMI [8x HDMI Uncompressed AV and Data]

Power: 5V/3A DC (US/EU standards, CE/FCC/UL certified)

Dimensions: 103mm [W] x 240mm [D] x 25mm [H]

Gross Weight: 1252g

Net. Weight: 668g

FEATURES

- HDMI 2.0, HDCP 2.2 and DVI compliant
- Supports UHDTV resolutions up to 4K2K: 3840x2160@24/25/30/50/60Hz & 4096x2160 @24/25/30/60Hz
- Supports passthrough of high definition audio: LPCM 2/5.1/7.1CH, Dolby Digital 2/5.1CH, DTS 2/5.1CH, Dolby TrueHD, DTS-HD Master Audio & Dolby Atmos
- Supports System Reset function (CEC active source command) allows the unit to reset the TV to its default HDMI input automatically
- HDMI input supports 'Standard' mode and 'TV' mode EDID settings
- Input and output status are indicated on the front panel



1 to 8 HDMI Distribution Amplifier

with System Reset

QU-8MS



3D HDMI

The QU-8MS Distribution Amplifier (splitter) accepts one HDMI input and splits this signal to eight identical outputs. This device is 3D compatible and features a 3D signal indicator which confirms when a 3D source signal is detected. The System Reset Function switch generates a command every 10 minutes to the connected displays which resets them to the correct HDMI input. This HDMI Distribution Amplifier can also be cascaded in multiple layers.

FEATURES

- v1.3 HDMI, HDCP 1.1 and DVI 1.0 compliant
- HDMI 1 to 8 Splitter with System Reset function
- Resolutions supported: PC - VGA to UXGA; HDTV - 480i to 1080p plus 1080p24fps
- High Definition Audio supported: Dolby TrueHD, Dolby Digital Plus and DTS-HD Master Audio plus LPCM
- Auto signal amplification & equalisation improves signal transmission distances
- Supports CEC bypass
- Supports Deep Colour (10 & 12bit)
- Selectable EDID settings - TV (downstream) and STD (fixed)
- 3D Signal, Power, & SYNC LED indicators
- Supports xvYCC
- Supports 3D signals

SPECIFICATIONS

Input: 1x HDMI (1x HDMI Uncompressed AV and Data)
Output: 8x HDMI (8x HDMI Uncompressed AV and Data)
Power: 5V/3A DC (US/EU standards, CE/FCC/UL certified)
Dimensions: 101mm (W) x 240mm (D) x 30mm (H)
Gross Weight: 1060g
Net. Weight: 660g



1 to 8 Rack Mountable HDMI Distribution Amplifier

QU-18S



3D HDMI

The QU-18S Distribution Amplifier (splitter) accepts one HDMI input and splits this signal to eight identical outputs. This device is compatible with v1.3 HDMI specifications, supporting 'Deep Colour' together with High Definition Audio. This HDMI Distribution Amplifier can also be cascaded up to 3 layers.

SPECIFICATIONS

Input: 1x HDMI (1x HDMI Uncompressed AV and Data)
Output: 8x HDMI (8x HDMI Uncompressed AV and Data)
Power: 5V/6A DC (US/EU standards, CE/FCC/UL certified)
Dimensions: 435mm (W) x 160mm (D) x 45mm (H)
Gross Weight: 2020g
Net. Weight: 1750g

FEATURES

- v1.3 HDMI, HDCP 1.1 and DVI 1.0 compliant
- HDMI 1 to 8 Splitter
- Resolutions supported: PC - VGA to UXGA; HDTV - 480i to 1080p plus 1080p24fps
- High Definition Audio supported: Dolby TrueHD, Dolby Digital Plus and DTS-HD Master Audio plus LPCM (32-192KHz sample rate)
- Auto signal amplification & equalisation improves signal transmission distances
- Supports CEC bypass
- Supports Deep Colour (10 & 12bit)
- Selectable EDID settings - TV (downstream) and STD (fixed)
- Power, HDMI/DVI, HDCP & SYNC plus independent output LED's indicator
- Supports xvYCC
- Supports 3D signals



1 to 8 HDMI to Single CAT6 Splitter

PU-Q1H8CS



3D HDMI

The PU-Q1H8CS has 1 HDMI input and 8 Single CAT6 outputs to simultaneously distribute a HDMI source to eight displays up to a distance of 40m. This solution is perfect for distributing the HDMI source content over longer distances than is usually achievable with HDMI cable, using cost effective CAT6 cable infrastructure.

Use the PU-1107RX Single CAT6 to HDMI Receivers on each of the eight CAT6 outputs to convert back from CAT6 to HDMI for connection to the display or displays.

SPECIFICATIONS

Input: 1x HDMI (1x HDMI Uncompressed AV and Data)
Output: 8x RJ45 (8x HDMI & Proprietary Data)
Power: 5V/3.2A DC (US/EU standards, CE/FCC/UL certified)
Dimensions: 240mm (W) x 105mm (D) x 30mm (H)
Gross Weight: 740g
Net. Weight: 500g

FEATURES

- v1.3 HDMI, HDCP 1.1 and DVI 1.0 compliant
- Resolutions supported: PC - VGA to WUXGA; HDTV - 480i to 1080p plus 1080p24fps
- High Definition Audio supported: Dolby TrueHD, Dolby Digital Plus and DTS-HD Master Audio plus LPCM
- CAT output can run up to 40m @ 1080p, 8 bit
- Selectable EDID settings - TV (downstream) or STD (fixed) and 12 bit or 8 bit Deep Colour
- Supports 'Deep Colour' (10 & 12 bit)
- Supports 3D signals

COMPATIBLE RECEIVERS (RX)

PU-1107RX

See Page 99

for specification



1 HDMI to 7 HDBaseT™ Splitter (100m)

including HDMI output bypass

PU-1H7HBTE



4K 3D HDMI HDBT PoC LAN

The PU-1H7HBTE enables a single HDMI source input to be distributed to 7 HDBaseT™ outputs. The HDBaseT™ outputs allow uncompressed distribution of HDMI, LAN, PoC, and IR signals over a Single CAT5e/6/7 cable up to lengths of 100m. Perfect for both residential and commercial AV installations, the PU-1H7HBTE can distribute HDMI signals to 7 displays. The product also includes an additional HDMI output for increased flexibility and can also be cascaded up to 5 times to allow distribution to potentially 50 screens or more.

PU-507RX or PU-507WPRX Receivers are recommended to utilise the functionality of the HDBaseT™ outputs of this device.

SPECIFICATIONS

Input:	1x HDMI (1x HDMI Uncompressed AV and Data) 1x 3.5mm Stereo mini-jack (1x Infra Red Receiver) 1x RJ45 (1x LAN Serving)
Output:	1x HDMI (1x HDMI Uncompressed AV and Data) 7x RJ45 (7x HDMI & Proprietary Data) 1x 3.5mm Stereo mini-jack (1x Infra Red Emitter)
Power:	24V/6.25A DC (US/EU standards, CE/FCC/UL certified)
PoC Power:	24V/6.25A DC (US/EU standards, CE/FCC/UL certified)
Dimensions:	430mm (W) x 180mm (D) x 40mm (H)
Gross Weight:	3800g
Net. Weight:	2140g

FEATURES

- Supports all v1.4 HDMI resolutions plus 4K
- HDMI, HDCP, & DVI compliant
- Supports HDMI / LAN / PoC (Power over Cable) / IR
- Supports resolutions VGA~WUXGA, 480i~1080p, 4K UHD@24/25/30Hz (RGB 4:4:4 & YUV 4:2:2), 4K UHD@60Hz (YUV 4:2:0), 4K/2K@24/25/30Hz (RGB 4:4:4 & YUV 4:2:2) and 4K/2K@60Hz (YUV 4:2:0) dependent upon the output display's EDID settings
- Supports uncompressed video/audio up to 10.2Gbps
- Additional HDMI bypass output provided for increased flexibility
- Supports HDCP repeating and CEC functions
- Supports 1080p distances up to 100 meters through CAT5e/6 cables
- Audio support up to 7.1CH & Dolby TrueHD, DTS-HD
- Supports 3D signals
- Supports 4K/2K & 4K UHD - CAT5e/6 = 70m & CAT6a/7 = 100m

COMPATIBLE RECEIVERS (RX)

PU-507RX

See Page 87

for specification



PU-507WPRX

See Page 88

for specification



1 HDMI to 7 HDBaseT™ LITE Splitter (60m)

including HDMI output bypass (with PoC)

PU-1H7HBTPL



4K 3D HDMI HDBT PoC

The PU-1H7HBTPL enables a single HDMI source input to be distributed to 7 HDBaseT™ Lite with PoC outputs. The HDBaseT™ Lite outputs allow uncompressed distribution of HDMI, and IR signals over a Single CAT5e/6/7 cable up to lengths of 60m. Perfect for both residential and commercial AV installations, the PU-1H7HBTPL can distribute HDMI signals to 7 displays. The product also includes an additional HDMI output for increased flexibility and can also be cascaded up to 5 times to allow distribution to more screens.

PU-515PL-RX Receivers are recommended to utilise the full functionality of the HDBaseT™ LITE with PoC outputs of this device.

SPECIFICATIONS

Input:	1x HDMI (1x HDMI Uncompressed AV and Data) 1x 3.5mm Stereo mini-jack (1x Infra Red Receiver)
Output:	1x HDMI (1x HDMI Uncompressed AV and Data) 7x RJ45 (7x HDBaseT Lite PoC HDMI & Proprietary Data) 1x 3.5mm Stereo mini-jack (1x Infra Red Emitter)
Power:	24V/6.25A DC (US/EU standards, CE/FCC/UL certified)
Dimensions:	430mm (W) x 180mm (D) x 40mm (H)
Gross Weight:	3300g
Net. Weight:	2120g

FEATURES

- Supports all v1.4 HDMI resolutions plus 4K
- HDMI, HDCP, & DVI compliant
- Supports uncompressed video/audio up to 10.2Gbps
- Supports resolutions VGA~WUXGA, 480i~1080p, 4K UHD@24/25/30Hz (RGB 4:4:4 & YUV 4:2:2), 4K UHD@ 60Hz (YUV 4:2:0), 4K/2K@24/25/30Hz (RGB 4:4:4 & YUV 4:2:2) and 4K/2K@ 60Hz (YUV 4:2:0) dependent upon the output display's EDID settings
- Supports HDCP repeating and CEC functions
- Supports 1080p distances up to 60 meters through CAT5e/6 cables
- Audio support up to 7.1CH & Dolby TrueHD, DTS-HD
- Supports HDMI / IR
- Supports 3D signals
- Supports PoC (power over cable) providing power for the receivers
- Supports 4K/2K & 4K UHD - CAT5e/6 = 35m & CAT6a/7 = 40m

COMPATIBLE RECEIVERS (RX)

PU-515PL-RX
See Page 91
for specification



1 to 4 HDMI Distribution Amplifier

4K, HDCP2.2, HDMI2.0

QU-4-4K22



4K

3D

HDMI2.0

HDCP2.2

The QU-4-4K22 Distribution Amplifier (splitter) accepts one HDMI input and splits this signal to four identical outputs. This device supports 4K2K Ultra-High Definition video with HDMI2.0 and HDCP2.2 compliance. In addition, 3D Video signals and High Definition Audio formats such as LPCM 7.1CH, Dolby TrueHD, Dolby Digital Plus, Dolby Atmos and DTS-HD Master Audio, audio sampling rate up to 192kHz are also supported. The QU-4-4K22 can also be cascaded up to 3 layers.

SPECIFICATIONS

Input:	1x HDMI (1x HDMI 2.0 Uncompressed AV and Data) 1x USB Mini B (1x Service Proprietary Data)
Output:	4x HDMI (4x HDMI 2.0 Uncompressed AV and Data)
Power:	5V/2.6A DC (US/EU standards, CE/FCC/UL certified)
Dimensions:	231mm (W) x 117mm (D) x 25mm (H)
Gross Weight:	1066g
Net. Weight:	610g

FEATURES

- HDMI 2.0, HDCP 2.2 and DVI compliant
- HDMI 1 to 4 HDMI splitter
- Supports UHDTV resolutions up to 4K2K: 3840x2160@24/25/30/50/60Hz & 4096x2160 @24/25/30/60Hz
- Supports passthrough of high definition audio: LPCM 2/5.1/7.1CH, Dolby Digital 2/5.1CH, DTS 2/5.1CH, Dolby TrueHD, DTS-HD Master Audio & Dolby Atmos
- Supports System Reset function (CEC active source command) allows the unit to reset the TV to its default HDMI input automatically
- HDMI input supports 'Standard' mode and 'TV' mode EDID settings
- Input and output status are indicated on the front panel



1 to 4 HDMI Distribution Amplifier

QU-14S



3D **HDMI**

The QU-14S Distribution Amplifier (splitter) accepts one HDMI input and splits this signal to four identical outputs. This device is compatible to v1.3 HDMI specifications, supporting 'Deep Colour' together with High Definition Audio. The QU-14S can also be cascaded up to 3 layers.

SPECIFICATIONS

Input: 1x HDMI (1x HDMI Uncompressed AV and Data)
Output: 4x HDMI (4x HDMI Uncompressed AV and Data)
Power: 5V/2.6A DC (US/EU standards, CE/FCC/UL certified)
Dimensions: 215mm (W) x 135mm (D) x 45mm (H)
Gross Weight: 800g
Net. Weight: 580g

FEATURES

- v1.3 HDMI, HDCP 1.1 and DVI 1.0 compliant
- HDMI 1 to 4 Splitter
- Resolutions supported: PC - VGA to UXGA; HDTV - 480i to 1080p plus 1080p24fps
- High Definition Audio supported: Dolby TrueHD, Dolby Digital Plus and DTS-HD Master Audio plus LPCM
- Auto signal amplification & equalisation improves signal transmission distances
- Supports CEC bypass
- Supports Deep Colour (10 & 12 bit)
- Selectable EDID settings - TV (downstream) and STD (fixed)
- Power, HDMI/DVI, HDCP & SYNC plus independent output LED's indicator
- Supports xvYCC
- Supports 3D signals



1 HDMI to 3 HDBaseT™ Splitter (100m)

including HDMI output bypass

PU-1H3HBTE



4K 3D HDMI HDBT LAN PoC

The PU-1H3HBTE enables a single HDMI source input to be distributed to 3 HDBaseT™ outputs. The HDBaseT™ outputs allow uncompressed distribution of HDMI, LAN, PoC, and IR over a Single CAT5e/6/7 cable up to lengths of 100m. Perfect for both residential and commercial AV installations, the PU-1H3HBTE can distribute HDMI signals to 3 displays. The product also includes an additional HDMI output for increased flexibility and can also be cascaded up to 5 times to allow distribution to potentially 50 screens or more.

The PU-507RX or PU-507WPRX Receivers are recommended to utilise the functionality of the HDBaseT™ outputs of this device.

SPECIFICATIONS

Input: 1x HDMI (1x HDMI Uncompressed AV and Data)
1x 3.5mm Stereo mini-jack (1x Infra Red Receiver)
1x RJ45 (1x LAN Serving)

Output: 1x HDMI (1x HDMI Uncompressed AV and Data)
3x RJ45 (3x HDMI & Proprietary Data)
1x 3.5mm Stereo mini-jack (1x Infra Red Emitter)

Power: 24V/4.16A DC (US/EU standards, CE/FCC/UL certified)

Dimensions: 145mm (W) x 200mm (D) x 30mm (H)

Gross Weight: 720g

Net. Weight: 580g

FEATURES

- Supports all v1.4 HDMI resolutions including 4K.
- HDMI, HDCP, & DVI compliant
- Supports HDMI / LAN / PoC (Power over Cable) / IR
- Supports resolutions VGA~WUXGA, 480i~1080p, 4K UHD@24/25/30Hz (RGB 4:4:4 & YUV 4:2:2), 4K UHD@60Hz (YUV 4:2:0), 4K/2K@24/25/30Hz (RGB 4:4:4 & YUV 4:2:2) and 4K/2K@60Hz (YUV 4:2:0) dependent upon the output display's EDID settings
- Supports uncompressed video/audio up to 10.2Gbps
- Supports HDCP repeating and CEC functions
- Additional HDMI bypass output provided to improve flexibility
- Supports 1080p distances up to 100 meters through CAT5e/6 cables
- Audio support up to 7.1CH & Dolby TrueHD, DTS-HD
- Supports 3D signals
- Supports 4K/2K & 4K UHD - CAT5e/6 = 70m & CAT6a/7 = 100m

COMPATIBLE RECEIVERS (RX)

PU-507RX

See Page 87
for specification



PU-507WPRX

See Page 88
for specification



1 HDMI to 3 HDBaseT™ LITE Splitter (60m) including HDMI output bypass (with PoC)

PU-1H3HBTPL



4K 3D HDMI HDBT PoC

The PU-1H3HBTPL enables a single HDMI source input to be distributed to 3 HDBaseT™ Lite outputs. The HDBaseT™ Lite outputs allow uncompressed distribution of HDMI, and IR signals over a Single CAT5e/6/7 cable up to lengths of 60m. Perfect for both residential and commercial AV installations, the PU-1H3HBTPL can distribute HDMI signals to 3 displays. The product also includes an additional HDMI output for increased flexibility and can also be cascaded up to 5 times to allow distribution to more screens.

PU-515PL-RX receivers are recommended to utilise the full functionality of the HDBaseT™ LITE with PoC outputs of this device.

SPECIFICATIONS

Input:	1x HDMI (1x HDMI Uncompressed AV and Data) 1x 3.5mm Stereo mini-jack (1x Infra Red Receiver)
Output:	1x HDMI (1x HDMI Uncompressed AV and Data) 3x RJ45 (3x HDBaseT Lite PoC HDMI & Proprietary Data) 1x 3.5mm Stereo mini-jack (1x Infra Red Emitter)
Power:	24V/2.7A DC (US/EU standards, CE/FCC/UL certified)
Dimensions:	145mm (W) x 200mm (D) x 30mm (H)
Gross Weight:	720g
Net. Weight:	580g

FEATURES

- Supports all v1.4 HDMI resolutions plus 4K
- HDMI, HDCP, & DVI compliant
- Supports uncompressed video/audio up to 10.2Gbps
- Supports resolutions VGA~WUXGA, 480i~1080p, 4K UHD@24/25/30Hz (RGB 4:4:4 & YUV 4:2:2), 4K UHD@ 60Hz (YUV 4:2:0), 4K/2K@24/25/30Hz (RGB 4:4:4 & YUV 4:2:2) and 4K/2K@ 60Hz (YUV 4:2:0) dependent upon the output display's EDID settings
- Supports HDCP repeating and CEC functions
- Supports 1080p distances up to 60 meters through CAT5e/6 cables
- Audio support up to 7.1CH & Dolby TrueHD, DTS-HD
- Supports HDMI and IR
- Supports 3D signals
- Supports PoC (Power over Cable) providing power for the receivers
- Supports 4K/2K & 4K UHD - CAT5e/6 = 35m & CAT6a/7 = 40m

COMPATIBLE RECEIVERS (RX)

PU-515PL-RX
See Page 91
for specification



1 HDMI to 2 HDBaseT™ Splitter (100m)

including HDMI output bypass

PU-1H2HBTE



4K 3D 5Play HDMI HDBT PoC LAN

The PU-1H2HBTE splitter accepts 1x HDMI input and distributes to 2 HDBaseT™ outputs, plus 1 HDMI bypass output. The HDBaseT™ outputs allow uncompressed HDMI, LAN, PoC, IR, and RS-232 signals to be transmitted over a Single CAT5e/6/7 cable up to 100m. Installers can confidently distribute HDMI signals to 3 displays, and if required, use the HDMI bypass output to cascade the HDMI signal up to 5 times with additional HDBaseT™ splitters.

PU-507RX Receivers are recommended to utilise the full 5-Play™ functionality of the HDBaseT™ outputs of this device.

SPECIFICATIONS

Input:	1x HDMI (1x HDMI Uncompressed AV and Data) 2x 3.5mm Stereo mini-jack (2x RS-232) 2x 3.5mm Stereo mini-jack (2x Infra Red Receiver)
Output:	1x HDMI (1x HDMI Uncompressed AV and Data) 2x RJ45 (2x HDMI & Proprietary Data) 2x 3.5mm Stereo mini-jack (2x Infra Red Emmitter) 1x RJ45 (1x Ethernet (I/O) IP)
Power:	24V/2.7A DC (US/EU standards, CE/FCC/UL certified)
Dimensions:	145mm (W) x 160mm (D) x 30mm (H)
Gross Weight:	700g
Net. Weight:	530g

FEATURES

- Supports all v1.4 HDMI resolutions plus 4K
- HDMI, HDCP, & DVI compliant
- Supports uncompressed video/audio up to 10.2Gbps
- Supports resolutions VGA~WUXGA, 480i~1080p, 4K UHD@24/25/30Hz (RGB 4:4:4 & YUV 4:2:2), 4K UHD@60Hz (YUV 4:2:0), 4K/2K@24/25/30Hz (RGB 4:4:4 & YUV 4:2:2) and 4K/2K@60Hz (YUV 4:2:0) dependent upon the output display's EDID settings
- Supports HDCP repeating and CEC functions
- Supports 1080p distances up to 100 meters through CAT5e/6 cables
- Audio support up to 7.1CH & Dolby TrueHD, DTS-HD
- Supports full 5-Play™ Convergence : HDMI / LAN / PoC (Power over Cable) / IR / RS-232
- Supports 3D signals
- Supports 4K/2K & 4K UHD - CAT5e/6 = 70m & CAT6a/7 = 100m

COMPATIBLE RECEIVERS (RX)

PU-507RX

See Page 87
for specification



PU-507WPRX

See Page 88
for specification



1 to 2 HDMI Distribution Amplifier

4K, HDCP2.2, HDMI2.0

QU-2-4K22



4K

3D

HDMI2.0

HDCP2.2

The QU-2-4K22 Distribution Amplifier (splitter) accepts one HDMI input and splits this signal to two identical outputs. This device supports 4K2K Ultra-High Definition video with HDMI2.0 and HDCP2.2 compliance. In addition, 3D Video signals and High Definition Audio formats such as LPCM 7.1CH, Dolby TrueHD, Dolby Digital Plus, Dolby Atmos and DTS-HD Master Audio, audio sampling rate up to 192kHz are also supported. The QU-2-4K22 can also be cascaded up to 3 layers.

FEATURES

- HDMI 2.0, HDCP 2.2 and DVI compliant
- HDMI 1 to 2 splitter
- Supports UHDTV resolutions up to 4K2K: 3840x2160@24/25/30/50/60Hz & 4096x2160 @24/25/30/60Hz
- Supports passthrough of high definition audio: LPCM 2/5.1/7.1CH, Dolby Digital 2/5.1CH, DTS 2/5.1CH, Dolby TrueHD, DTS-HD Master Audio & Dolby Atmos
- Supports System Reset function (CEC active source command) allows the unit to reset the TV to its default HDMI input automatically
- HDMI input supports 'Standard' mode and 'TV' mode EDID settings
- Input and output status are indicated on the front panel

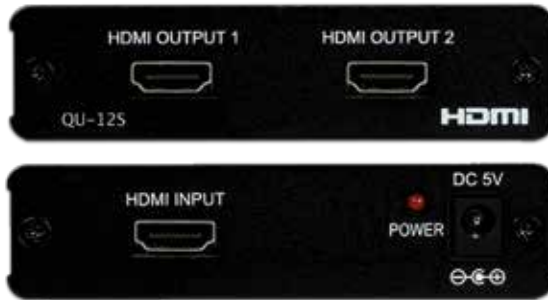
SPECIFICATIONS

- Input:** 1x HDMI (1x HDMI 2.0 Uncompressed AV and Data)
1x USB Mini B (1x Service - Proprietary Data)
- Output:** 2x HDMI (2x HDMI 2.0 Uncompressed AV and Data)
- Power:** 5V/2.6A DC (US/EU standards, CE/FCC/UL certified)
- Dimensions:** 117mm (W) x 128mm (D) x 25mm (H)
- Gross Weight:** 986g
- Net. Weight:** 350g



1 to 2 HDMI Distribution Amplifier

QU-12S



3D **HDMI**

The QU-12S Distribution Amplifier (splitter) accepts one HDMI input and splits this signal to two identical outputs. This device is compatible to v1.3 HDMI specifications, supporting 'Deep Colour' together with High Definition Audio.

The QU-12S can also be cascaded up to 3 layers.

SPECIFICATIONS

Input: 1x HDMI (1x HDMI Uncompressed AV and Data)
Output: 2x HDMI (2x HDMI Uncompressed AV and Data)
Power: 5V/2.6A DC (US/EU standards, CE/FCC/UL certified)
Dimensions: 102mm (W) x 146mm (D) x 25mm (H)
Gross Weight: 780g
Net. Weight: 500g

FEATURES

- v1.3 HDMI, HDCP 1.1 and DVI 1.0 compliant
- HDMI 1 to 2 Splitter
- Resolutions supported: PC - VGA to UXGA; HDTV - 480i to 1080p plus 1080p24fps
- High Definition Audio supported: Dolby TrueHD, Dolby Digital Plus and DTS-HD Master Audio plus LPCM
- Auto signal amplification & equalisation improves signal transmission distances
- Supports CEC bypass
- Supports Deep Colour (10 & 12 bit)
- Supports xvYCC
- Supports 3D signals



1 to 2 DVI Distribution Amplifier

QU-12D



DVI

The QU-12D is a high performance, HDCP compliant, DVI distribution amplifier allowing one DVI input to be distributed to two displays simultaneously.

The QU-12D can be cascaded up to 3 layers.

SPECIFICATIONS

Input:	1x DVI-I (1x DVI-D)
Output:	2x DVI-I (2x DVI-D)
Power:	5V/2.6A DC (US/EU standards, CE/FCC/UL certified)
Dimensions:	123mm (W) x 100mm (D) x 30mm (H)
Gross Weight:	540g
Net. Weight:	260g

FEATURES

- HDMI 1.3 and DVI 1.0 compliant
- Supports PC resolutions: VGA to WUXGA
- Supports HDTV resolutions : 480p to 1080p
- Can be cascaded up to 3 layers
- Each output can run up to 15m/8-bit or 10m/12-bit
- The device will read EDID of output 1 and will record it





A person wearing a light blue long-sleeved shirt is pointing their right hand towards a display area. The background is a blurred retail environment with shelves and various electronic products, including what appears to be a television or monitor showing a landscape image. The entire scene is framed by a purple border.

Scalers & Converters

Our scaling and conversion solutions help tame the wide variety of AV signals, connector types and legacy formats to enable installers to easily integrate and optimise any audio or video source into a wider AV system.

We have built up an extensive range of AV format converters and scalars that help the installer easily overcome the installation challenges and ensure that every AV signal in the wider system can be optimised to achieve the best possible results.

HDMI to HDMI Scaler

with Audio Embedding & De-Embedding

SY-300H



HDMI

The SY-300H will allow a HDMI source signal to be scaled up or down to a variety of different resolutions selectable via the OSD (On Screen Display). When set to 'native' mode, the scaler will automatically scale the HDMI input signal to the native resolution of the connected screen. This device also provides 50/60Hz frame rate conversion further enhancing compatibility with AV sources and displays.

In addition, the SY-300H includes integrated audio embedding and de-embedding using the Toslink and 3.5mm jack inputs and outputs.

SPECIFICATIONS

Input: 1x HDMI (1x Uncompressed AV and Data)
1x Toslink (1x 2 Channel LPCM / Dolby Digital / DTS)
1x USB Type A (1x Service Port Proprietary Data)
1x 3.5mm Stereo mini-jack (1x Analogue Stereo(L/R))

Output: 1x HDMI (1x Uncompressed AV and Data)
1x Toslink (1x 2 Channel LPCM / Dolby Digital / DTS)
1x 3.5mm Stereo mini-jack (1x Analogue Stereo(L/R))

Power: 5V/2.6A DC (US/EU standards, CE/FCC/UL certified)

Dimensions: 100mm (W) x 150mm (D) x 25mm (H)

Gross Weight: 600g

Net. Weight: 340g

FEATURES

- HDMI, HDCP and DVI compliant
- Full range of resolutions supported PC from VGA - WUXGA (RB) and HD resolutions from 480i - 1080p
- Output resolution can be set to native, which automatically scales the output to the resolution of the connected display
- Features 50/60Hz frame rate conversion
- Supports 3-D motion video adaptive, 3-D de-interlacing, and 3:2:2:2 pull-down detection and recovery
- Provides output picture adjustment on contrast, brightness, hue, saturation, sharpness, RGB (colour tone) level and aspect ratio size
- Supported audio HDMI and Toslink: Dolby Digital, DTS, LPCM 5.1 and LPCM 2.0
- Supported audio 3.5mm Jack: Analogue stereo audio



PC to HDMI Converter and Scaler

with Audio

SY-P293



HDMI

The SY-P293 is designed to scale analogue video signals from a PC source to a digital HDMI output boasting a wide-range of HDTV and PC resolutions. Audio is combined with HDMI video output. This unit offers a selection of colour space and adjustment to obtain the best picture quality.

SPECIFICATIONS

- Input:** 1x 15pin Dsub (1x PC RGBHV)
1x 3.5mm Stereo mini-jack (1x Analogue Stereo(L/R))
1x Toslink (1x Optical DTS / Dolby Digital / 2 Channel LPCM)
- Output:** 1x HDMI (1x HDMI Uncompressed AV and Data)
1x 3.5mm Stereo mini-jack (1x Analogue Stereo(L/R))
1x Toslink (1x Optical DTS / Dolby Digital / 2 Channel LPCM)
- Power:** 5V/2.6A DC (US/EU standards, CE/FCC/UL certified)
- Dimensions:** 102mm (W) x 154mm (D) x 25mm (H)
- Gross Weight:** 1000g
- Net. Weight:** 700g

FEATURES

- v1.2 HDMI, HDCP 1.1 and DVI 1.0 compliant
- Scales any PC resolutions to PC or HDTV resolutions
- Resolutions Supported: PC - VGA, SVGA, XGA, SXGA, UXGA, WXGA, WSXGA, WUXGA. SD/HD - 480i, 576i, 480p, 576p, 720p, 1080i and 1080p
- Audio Support: Analogue Stereo, Digital stereo PCM, DTS, and Dolby Digital. Simply select from the audio input source this is then outputted to HDMI, Optical (Toslink), and mini-jack (stereo only) simultaneously
- On Screen Menu with push button control
- Provides output picture adjustment on contrast, brightness, hue, saturation, sharpness, RGB (colour tone) level and aspect ratio size
- Automatic detection of the factory setting of the connected display and output the corresponding resolution and refresh rate, when the NATIVE output is selected (default setting)



CV/SV to HDMI Converter and Scaler

with Audio

SY-P295N



HDMI

The SY-P295N is designed to scale analogue video signals from a Component Video or S-Video source to a digital HDMI output, boasting a wide-range of HDTV and PC resolutions. Audio is combined with HDMI video output. This unit offers a selection of colour space and adjustment to obtain the best picture quality.

SPECIFICATIONS

- Input:** 1x RCA (1x Composite)
1x S-video plug (1x S-video)
2x RCA (1x Analogue Stereo (L/R))
1x Toslink (1x Optical DTS / Dolby Digital / 2 Channel LPCM)
- Output:** 1x HDMI (1x HDMI Uncompressed AV and Data)
1x Toslink (1x Optical DTS / Dolby Digital / 2 Channel LPCM)
1x 3.5mm Stereo mini-jack (1x Analogue Stereo(L/R))
- Power:** 5V/2.6A DC (US/EU standards, CE/FCC/UL certified)
- Dimensions:** 102mm (W) x 187mm (D) x 25mm (H)
- Gross Weight:** 880g
- Net. Weight:** 680g

FEATURES

- v1.2 HDMI, HDCP 1.1 and DVI 1.0 compliant
- Video Support: Input - PAL & NTSC. Output Resolution Supported: PC - VGA, SVGA, XGA, SXGA, UXGA, WXGA, WSXGA, WUXGA. SD/HD - 480i, 576i, 480p, 576p, 720p, 1080i and 1080p
- Audio Support: Analogue Stereo, Digital stereo PCM, and DTS. Simply select from the audio input source, this is then outputted to HDMI, Optical (Toslink), and mini-jack (stereo only) simultaneously.
- A comprehensive OSD menu provides picture adjustment on contrast, brightness, hue, saturation, sharpness, RGB (colour tone) level and aspect ratio size
- Automatic detection of the connected screens factory setting, matching the resolution and refresh rate, when the NATIVE output is selected



PC/DVI to HDMI Converter

SY-P290



HDMI

The SY-P290 is designed to convert and scale Digital or Analogue RGBHV or YUV Video to HDMI for improved viewing. This unit offers a wide selection of output resolutions/formats, colour space and adjustment to obtain the best picture quality.

SPECIFICATIONS

- Input:** 1x 3.5mm Stereo mini-jack (1x Stereo(L/R))
1x DVI-I (1x DVI-D)
1x 15pin Dsub (1x RGBHV / YPbPr Component / YCbCr Component)
1x RCA (1x Coaxial DTS / Dolby Digital / 2 Channel LPCM)
- Output:** 1x HDMI (1x Uncompressed AV and Data)
- Power:** 5V/2.6A DC (US/EU standards, CE/FCC/UL certified)
- Dimensions:** 102mm (W) x 160mm (D) x 25mm (H)
- Gross Weight:** 700g
- Net. Weight:** 440g

FEATURES

- v1.2 HDMI, HDCP 1.1 and DVI 1.0 compliant
- Common supported resolutions: HDTV: 480p, 576p, 720p, 1080i, 1080p, 1080p24; PC: VGA, SVGA, XGA, WXGA, SXGA, UXGA, WUXGA.
- Audio Support: Input - Analogue stereo & Coax; PCM Stereo, DTS & Dolby Digital; Output - Follows Input
- Scale analogue RGBHV/YUV and/or DVI/HDMI resolutions to XGA/UXGA/720p/1080p
- Direct push button controls for Audio, Video & Timing



HDMI 4K Scaler

Optional Up & Down Scaling

SY-4KS



4K **HDMI** **HDCP1.4**

The SY-4KS HDMI Scaler is designed to upscale 1080p@24 signals to 4K Ultra High Definition (UHD) resolutions, or downscale a UHD 4K signal to 1080p@24 for integration into any AV system. The ability to downscale 4K signals to 1080p is a crucial function when working with 4K sources in a complex AV system and distributing the HDMI sources to multiple displays which have varying resolution support. This device allows the user to select the highest commonly supported resolution between source and display ensuring maximum compatibility in any system. The SY-4KS incorporates two HDMI outputs, one of which is a bypass (input follows output), and the second is a scaled output. The scaled output can be set to three modes, upscale to 4K, downscale from 4K, or as a bypass output. Both the bypass output and scaled output operate simultaneously.

FEATURES

- Supports HDMI upscaling to 4K or downscale to 1080p@24
- Supports HDMI signal bypass
- Simultaneous HDMI outputs
- Supports resolutions VGA~WUXGA, 480i~1080p, 4K UHD@24/25/30Hz (RGB 4:4:4 & YUV 4:2:2), 4K/2K@24/25/30Hz (RGB 4:4:4 & YUV 4:2:2) dependent upon the output display's EDID settings

SPECIFICATIONS

Input:	1x HDMI (1x HDMI Uncompressed AV and Data) 1x USB Mini B (1x Service Port Proprietary Data)
Output:	2x HDMI (2x HDMI Uncompressed AV and Data)
Power:	5V/2.6A DC (US/EU standards, CE/FCC/UL certified)
Dimensions:	105mm (W) x 110mm (D) x 25mm (H)
Gross Weight:	640g
Net. Weight:	220g



HDMI to HDMI Up & Down Scaler

including 24fps input support

SY-298H24



HDMI

The SY-298H24 will allow a HDMI source signal to be up or down scaled according to the screen specifications required. Any HDMI signal inputted can be scaled up or down to between 480i to 1080p, plus PC output resolutions of VGA or UXGA. This device accepts 1080p24 input resolutions enabling content filmed at 24 frames per second to be displayed. This feature is particularly useful when a 1080p24 source signal is distributed to multiple displays. If any screen is not 1080p24 compatible, the SY-298H24 can be used to scale the input signal to suit the supported screen resolution, whilst not affecting the signal being sent to the 1080p24 compatible screens. This solution is perfect for home cinema enthusiasts who require full native Blu-ray resolutions in their home cinema system, whilst providing signal flexibility to other screens around the home.

FEATURES

- HDMI, HDCP1.1 and DVI compliant
- Upscale video signal from HDMI source between 480p and 1080p@50/60, including 1080p24
- Supports a wide range of output resolutions from 480p to 1080p and PC from VGA to SXGA
- Supports audio sampling rate up to 192kHz
- Supports Dolby & DTS 5.1 audio pass-through.
- Motion adaptive 3-D deinterlacing algorithm
- 3-D noise reduction in both temporal and spatial domain
- Supports Frame rate conversion
- Adaptive contrast enhancement
- Support CEC bypass
- OSD (On Screen Display) Menu for ease of use

SPECIFICATIONS

Input:	1x HDMI (1x HDMI Uncompressed AV and Data)
Output:	1x HDMI (1x HDMI Uncompressed AV and Data)
Power:	5V/1.2A DC (US/EU standards, CE/FCC/UL certified)
Dimensions:	85mm (W) x 80mm (D) x 25mm (H)
Gross Weight:	280g
Net. Weight:	220g



CV & SV to HDMI Converter

with Audio Input

SY-398H



HDMI

This Video to HDMI™ converter can convert CV/SV (NTSC or PAL or SECAM) to HDMI resolutions of XGA to UXGA, or HD resolutions of 480p to 1080p. With a frame rate conversion feature that allows users to view DVD, VCR or video game sources on the HD monitor/TV, this device has an On-Screen Display function that allows users to easily select the output resolution and the audio input, after which both the video and audio signal are combined into an HDMI signal so they can be output to a compatible display.

SPECIFICATIONS

- Input:** 1x RCA (1x Composite)
1x S-video plug (1x S-video)
1x 3.5mm Stereo mini-jack (1x Analogue Stereo(L/R))
- Output:** 1x HDMI (1x HDMI Uncompressed AV and Data)
- Power:** 5V/1A DC (US/EU standards, CE/FCC/UL certified)
- Dimensions:** 105mm (W) x 65mm (D) x 25mm (H)
- Gross Weight:** 280g
- Net. Weight:** 200g

FEATURES

- Operates in NTSC 3.58 and PAL & SECAM system
- Can scale CV/SV to HDMI format
- PC Output resolutions: XGA, SXGA, UXGA
- Component Output resolutions : 480p/576p, 720p@50 or 60, 1080p@50 or 60
- 3D (frame based) motion adaptive YNR/CNR noise reduction
- On-Screen Display
- Advance 3D motion adaptive de-interlace
- Automatic 2:2 & 3:2 film mode detection
- Play video games on your HD monitor/TV
- High-resolution output picture
- Plug & play- no drive software required
- Component resolution support 50 to 60 frame rate conversion only. (not 60 to 50)
- PC resolution frame rate only supports 60Hz output



PC/VGA to CV & SV (NTSC & PAL)

SY-PT385A



VGA

The SY-PT385A is a PC to Video scan converter which is designed to convert a variety of PC analogue video signals from VGA to WUXGA. This device also converts between interlaced NTSC or PAL video and features a frame rate conversion function in addition to an Overscan / Underscan function that allows users to view PC source on a Composite or S-Video monitor without cropping the images.

FEATURES

- Automatically detects and converts incoming PC images to NTSC or PAL
- Supports high resolution PC inputs from VGA to WUXGA
- Downscales PC video to Composite/S-Video
- Supports Image Overscan/Underscan
- Supports Analogue to Digital (ADC) conversion

SPECIFICATIONS

- Input:** 1x 15pin Dsub (1x RGBHV)
Output: 1x RCA (1x Composite)
1x S-video plug (1x S-video)
Power: 5V/2.6A DC (US/EU standards, CE/FCC/UL certified)
Dimensions: 60mm (W) x 110mm (D) x 20mm (H)
Gross Weight: 400g
Net. Weight: 100g



Matrices

Audio

Extenders

Switchers & Splitters

Scalers & Converters

Other AV

Video to PC/HD Converter

CM-388M



HDMI

The CM-388M is designed to convert digital signals from a HDMI (or DVI and Coaxial) source to Composite Video or S-Video for NTSC or PAL systems with L/R stereo audio. Besides Composite Video and S-Video outputs, this device also provides one HDMI bypass output to deliver the original signal, and a simultaneous Coaxial output to send S/PDIF digital audio to an audio amplifier.

SPECIFICATIONS

Input:	1x HDMI (1x HDMI Uncompressed AV and Data) 1x RCA (1x Coaxial DTS / Dolby Digital / 2 Channel LPCM)
Output:	1x RCA (1x Coaxial DTS / Dolby Digital / 2 Channel LPCM) 1x HDMI (1x HDMI (Bypass) Uncompressed AV and Data) 1x RCA (1x Composite) 1x S-video plug (1x S-video) 4x RCA (2x Analogue Stereo (L/R))
Power:	5V/2.6A DC (US/EU standards, CE/FCC/UL certified)
Dimensions:	140mm (W) x 128mm (D) x 38mm (H)
Gross Weight:	1000g
Net. Weight:	540g

FEATURES

- HDMI 1.2, HDCP 1.1 and DVI 1.0 compliant
- Convert HDMI source signals to Composite Video or S-Video, with selectable NTSC or PAL compatibility
- Converts digital audio from a HDMI source to analog stereo audio
- HDMI bypass with simultaneous de-embedded S/PDIF Digital Audio via a Coaxial output
- Accepts a wide range of HDTV input resolutions, from 480i to 1080p@60Hz and PC from VGA@60Hz to WUXGA@60Hz (Reduced Blanking)
- Supports Coaxial input audio sample rate 44.1KHz, 48KHz and 96KHz
- When the signal from HDMI or DVI source is protected by HDCP (High bandwidth Digital Content Protection), the HDMI or DVI display needs to supports HDCP to be able to show picture
- When receiving content that is HDCP encrypted, the CV & SV output will not display images



HDMI to 3G-SDI Dual Output Converter

PRO-H2-3GSDI



HDMI 3G-SDI 3G/SD/HD

The PRO-H2-3GSDI Dual Output Converter accepts non-HDCP protected HDMI content and will convert to dual 3G-SDI outputs simultaneously. This is perfect for extending HDMI signals over long distances (300m for SD signals) to two displays. This device benefits from a 2-channel (L/R) audio input allowing DVI signals with 2-channel audio to be converted to SDI. In addition, the PRO-H2-3GSDI has a built-in EDID management system, with EDID recorder, which ensures the highest level of source and screen compatibility.

SPECIFICATIONS

Input:	1x HDMI (1x HDMI Uncompressed AV and Data) 2x RCA (1x Analogue Stereo (L/R))
Output:	2x BNC (2x SD-SDI / HD-SDI / 3G-SDI)
Power:	5V/2.6A DC (US/EU standards, CE/FCC/UL certified)
Dimensions:	125mm (W) x 115mm (D) x 30mm (H)
Gross Weight:	660g
Net. Weight:	520g

FEATURES

- Supports HDMI timing: 480i, 576i, 720p50/60, 1080p 24/25/30, 1080i 50/60, 1080p 50/60
- This product does not process HDCP input. When receiving content that has HDCP encryption there will be no video outputted.
- Simultaneous display HDMI source on two SDI displays
- When a DVI signal goes through HDMI, the L/R audio can be sent with it to the 3G SDI output
- Integrated audio embedded up to 8 channel PCM 48kHz for HDMI or 2CH for DVI audio
- Choose between a selectable EDID and recordable EDID
- Operation at 2.970Gbit/s, 2.970/1.001Gbit/s, 1.485Gbit/s, 1.485/1.001Gbit/s and 270Mbits/s
- Connect with other units (SDI to HDMI) to extend your signal over long distances
- Frequency Bandwidth 225MHz/link (HDMI 1.3)
- Auto video mode detection (3G/SD/HD)
- Supports signal transmission distances of up to 300m for SD signals, 200m for HD signals and 100m for 3G signals
- Supplied with Locking PSU



SDI to HDMI Converter with SDI Bypass

PRO-SDIHDMI



HDMI **3G-SDI** **3G/SD/HD**

The PRO-SDIHDMI Converter accepts SD-SDI, HD-SDI, and 3G-SDI signals and converts to HDMI. The SDI input also has a bypass which is outputted simultaneously alongside the HDMI output allowing the SDI signal to be extended over distances up to 300m. This device also has the added benefit of an integrated audio de-embedder for sending 2-channel (L/R) audio to an AV amplifier.

SPECIFICATIONS

- Input:** 1x BNC (1x SD-SDI / HD-SDI / 3G-SDI)
Output: 1x BNC (1x Loop SD-SDI / HD-SDI / 3G-SDI)
2x RCA (1x Analogue Stereo (L/R))
1x HDMI (1x HDMI Uncompressed AV and Data)
Power: 5V/2.6A DC (US/EU standards, CE/FCC/UL certified)
Dimensions: 110mm (W) x 85mm (D) x 30mm (H)
Gross Weight: 640g
Net. Weight: 400g

FEATURES

- Operation at 2.970Gb/s, 2.970/1.001Gb/s, 1.485Gb/s, 1.485/1.001Gb/s and 270Mb/s
- Supports SMPTE 425M (Level A and Level B), SMPTE 424M, SMPTE 292M, SMPTE 259M-C
- Equalized and re-clocked loop output
- Integrated audio de-embedder for max 8 channels of 48kHz audio
- Auto video mode detection (3G/SD/HD)
- Conversion from SMPTE 425M level B to Level A for 1080p 50/59.94/60 4:2:2 10-bit
- Cascade multiple units for extending the signal longer distances
- Simultaneous display with SDI and HDMI signal
- Supports SDI signal distance up to 300m for SD signal, 200m for HD signal and 100m for 3G signal
- Frequency Bandwidth 225MHz/link (HDMI 1.3)
- Supplied with a Locking PSU



Other AV

This range of CYP solutions encompasses Control products, Digital Signage controllers, HDMI signal management tools, and HDMI cables.

HDMI EDID Manager

RE-EDID



3D HDMI

The RE-EDID is designed to allow the adjustment and manipulation of HDMI/DVI EDID information that is provided to a source device by a connected display so that it may output the correct video/audio signal. Aiming to simplify the technical complications involved in video/audio system integration, home theatre installation and video/audio equipment testing, the unit features a learning function allowing the user to Read and Write the video/audio EDID to the system. It also supports EDID Emulation and Bypass modes. This device is perfect to overcome source and screen compatibility issues, particularly when integrating PC's into an AV system.

SPECIFICATIONS

Input:	1x HDMI (1x HDMI Uncompressed AV and Data)
Output:	1x HDMI (1x HDMI Uncompressed AV and Data)
Power:	USB powered
Dimensions:	70mm (W) x 80mm (D) x 22mm (H)
Gross Weight:	240g
Net. Weight:	120g

FEATURES

- HDMI 1.3 and DVI 1.0 compliant
- Supports resolutions up to and including 1080p @ 60Hz, 4K x 2K @ 24/30Hz and 1920x1200 60Hz (WUXGA)
- Supports up to 16-bit Deep Colour
- HD Audio Support : LPCM 7.1CH, Dolby TrueHD, Dolby Digital Plus and DTS HD Master Audio (Sampling rates from 32 kHz to 192 kHz)
- Supports Four different EDID modes: Read / Write / Emulate / Bypass modes
- Read Mode: Reads the TV/display's EDID information
- Write Mode: Overwrites the TV/display's EDID information (TV/display needs to be able to support overwrite function)
- 8 unique sets of EDID settings may be stored via the learning procedure.
- Emulator Mode: Allows the source device to read the selected EDID information from the unit's default or learnt EDID memory
- Bypass Mode: Allows the source device to read the EDID information from the TV/display directly
- Can be powered via USB or HDMI input
- Supports DVI sources when used with a DVI to HDMI adaptor (not supplied)
- Supports CEC functionality



HDMI to HDMI Repeater

RE-101



3D HDMI

The RE-101 repeater equalises and recovers the full HDMI signal to provide an 'as new' signal allowing it to be repeated for extended distances and cascaded multiple times. This device uses v1.3 HDMI specifications, supporting 'Deep Colour' together with High Definition Audio with a high bandwidth up to 225MHz.

SPECIFICATIONS

Input: 1x HDMI (1x HDMI Uncompressed AV and Data)
Output: 1x HDMI (1x HDMI Uncompressed AV and Data)
Power: 5V/2.6A DC (US/EU standards, CE/FCC/UL certified)
Dimensions: 50mm (W) x 55mm (D) x 25mm (H)
Gross Weight: 340g
Net. Weight: 260g

FEATURES

- v1.3 HDMI, HDCP 1.1 and DVI 1.0 compliant
- Supports high definition up to 1080p @50/60Hz and PC Resolutions up to UXGA (1600x1200), output resolution follows input
- High Definition Audio supported: Dolby TrueHD, Dolby Digital Plus and DTS-HD Master Audio plus LPCM
- Equalises and recovers incoming TMDS data before re-transmitting so that the output is of optimal quality, regardless of incoming signal
- Supports CEC functions
- Supports Deep Colour (10 & 12 bit)
- Can be used with 15m cables both sides and can be cascaded
- Supports xvYCC
- Supports 3D signals



Passive HDMI to HDMI Equaliser

RE-HDEQ



3D HDMI

The RE-HDEQ is a mini HDMI equaliser enabling the user to extend their HDMI cable lengths up to 15m (dependent on cable quality) either side of the device. Resolution support up to 1080P 24fps and 3D compatibility makes this product a simple, yet very effective way of extending HDMI cable capabilities.

Please note that the RE-HDEQ requires power to be received via the HDMI source, so it is important to ensure that the HDMI source being used is capable of providing the standard 2W power supply via HDMI as is common on many HDMI sources. For sources which do not have power via HDMI, CYP recommend the use of the RE-PI Power Inserter product, designed to be used alongside the RE-HDEQ.

FEATURES

- Supports TMDS equalisation and CDR (Clock Rate Recovery) for extended HDMI cable range.
- Input/Output Resolutions: Output resolution follows Input: PC: VGA (640x480) to WUXGA/ RB (1920x1200); HDTV: 480i to 1080p + 1080P 24fps.
- Requires HDMI source to output power via HDMI cable to power Enhancer (2W as standard).
- RE-HDEQ is capable of receiving and transmitting 2.25Gbps.
- Supports HDMI cable distance of up to 15m either side of the device at full 1080p.
- No PSU required

SPECIFICATIONS

Input: 1x HDMI (1x HDMI Uncompressed AV and Data)

Output: 1x HDMI (1x HDMI Uncompressed AV and Data)

Power: No PSU required

Dimensions: 25mm (W) x 65mm (D) x 10mm (H)

Gross Weight: 60g

Net Weight: 10g



HDMI Power Inserter

RE-PI



HDMI

The RE-PI Power Inserter is used to insert power into a HDMI signal path for self-powering compatible HDMI products. This device is the perfect partner to the CYP RE-HDEQ HDMI Equaliser, for use when the HDMI source is not capable of sending power to the Equaliser. The RE-PI is capable of inserting up to 5V/2A into the HDMI signal path and the connected device may draw power up to this rating.

FEATURES

- Power insertion (up to 5V/2A)
- Provides extra power to HDMI output while disabling any power supplied from the HDMI input without interrupting the original HDMI signal
- Integrated over-current protection

SPECIFICATIONS

Input: 1x HDMI (1x HDMI Uncompressed AV and Data)
Output: 1x HDMI (1x HDMI Uncompressed AV and Data)
Power: 5V/2.6A DC (US/EU standards, CE/FCC/UL certified)
Dimensions: 47mm (W) x 47mm (D) x 25mm (H)
Gross Weight: 300g
Net. Weight: 160g



Advanced HDMI Pattern Generator & Analyser (4K, HDCP2.2, HDMI2.0)

XA-4



4K **3D** **HDMI2.0** **HDCP2.2**

The XA-4 Advanced HDMI Pattern Generator and Analyser is an integrators' tool for producing 4K HDMI signals for verifying and testing wider AV installations. This device has 54 resolution settings, 47 test patterns and 6 analysis tests which provide over a thousand different combinations of test scenarios. It supports HDMI data packets, EDID & HDCP analysis, EDID emulation, and allows the user to save 2 custom patterns, along with the ability to generate audio up to 8 channels.

Front panel keys allow fast switching between the various functions and an OLED screen allows for quick viewing of current status information. Control is via front-panel buttons, IR, RS-232 and Telnet allowing users full flexibility in controlling the device.

SPECIFICATIONS

Input:	1x HDMI (1x HDMI Uncompressed AV and Data) 1x 3.5mm Stereo mini-jack (1x Analogue Stereo(L/R)) 1x RJ45 (1x IP Control) 1x 9pin Dsub (1x RS-232 Data) 1x USB Type A (1x Service Port Proprietary Data)
Output:	1x HDMI (1x HDMI Uncompressed AV and Data) 1x 3.5mm Stereo mini-jack (1x Analogue Stereo(L/R))
Power:	5V/2.6A DC (US/EU standards, CE/FCC/UL certified)
Dimensions:	120mm (W) x 166mm (D) x 30mm (H)
Gross Weight:	1300g
Net. Weight:	790g

FEATURES

- HDMI (with 6G audio/video support), HDCP 2.2 and DVI compliant
- Supports analysis of the source and the display up to HDMI 6G signals
- Supports analysis of HDMI data packets
- Supports analysis and control of HDCP v1.4 and v2.2
- Supports analysis and emulation of EDID data, including SCDC (Status and Control Data Channel)
- VGA output resolutions: 480p, 576p, 720p, 1080i, 1080p, 640x480, 800x600, 1024x768, 1280x1024, 1366x768, 1400x1050, 1440x900, 1600x900 (RB), 1600x1200, 1680x1050, 1920x1200 (RB)
- HDMI output resolutions: 480p, 576p, 720p, 1080i, 1080p, 640x480, 800x600, 1024x768, 1280x1024, 1366x768, 1400x1050, 1440x900, 1600x900 (RB), 1600x1200, 1680x1050, 1920x1200 (RB), 3G 4K2K, 6G 4K2K
- Supports extra 2 Custom Pattern sizes - 640x480, 1920x1080 with RGB 24 bits to be inserted
- Supports external stereo audio input & output
- Supports Generation of sinewave audio up to LPCM 8CH and analysis of the source audio signal
- Supports front panel, IR Remote, RS-232, and Telnet controls
- Supports OLED display with quick viewing of the current selection status

HDMI Pattern Generator

4K, HDCP2.2, HDMI2.0

XA-2



4K 3D HDMI2.0 HDCP2.2

The XA-2 is an advanced yet compact and convenient pattern generator for testing and troubleshooting HDMI devices. There are 6 resolution settings covering 4K Ultra HD and Full HD resolutions, 4 test patterns, HDCP (1.4, 2.2 and non-HDCP), and 3 audio settings each providing a large array of test signals. With simple to use control via buttons on the front panel, and LED indicators for quick viewing of the current status, this pattern generator is a must have tool for any professional AV integrator.

FEATURES

- HDMI 2.0, HDCP 2.2 and DVI compliant
- Generates HDMI resolutions up to 6Gbps 4K2K@60Hz
- Generates HDCP v1.4, HDCP v2.2 and non-HDCP signals
- Resolutions supported: 720p@60, 1080p@60, & 4K@30/60
- Supports external analogue stereo and optical digital audio inputs
- Video bandwidth support: 18Gbps

SPECIFICATIONS

Input: 2x RCA (1x Analogue audio Stereo (L/R))
1x Toslink (1x Optical 2 Channel LPCM)
1x USB Mini B (1x Service Port - Proprietary Data)

Output: 1x HDMI (1x HDMI 2.0 Uncompressed AV and Data)

Power: 5V/2.6A DC (US/EU standards, CE/FCC/UL certified)

Dimensions: 87mm (W) x 78mm (D) x 30mm (H)

Gross Weight: 500g

Net. Weight: 202g



3D Ready Mini Pattern Generator

with HDMI Source Analysis and Audio Return Channel (ARC) Test Function

XA-1



3D HDMI ARC

The XA-1 is the perfect analysis tool for AV installers and integrators. This device allows the user to analyse AV sources for resolution and EDID information whilst also providing pattern generation and test functions for identifying display capabilities. This small but advanced HDMI analyser also supports the analysis and pattern generation of 3D signals. This allows the user to check compatibility between sources and displays and provides a means of identifying system problems for troubleshooting.

SPECIFICATIONS

Input:	1x HDMI (1x HDMI Uncompressed AV and Data) 1x 3.5mm Stereo mini-jack (1x Service Port)
Output:	1x HDMI (1x HDMI Uncompressed AV and Data) 1x Toslink (1x ARC Output (Optical))
Power:	5V/1.2A DC (US/EU standards, CE/FCC/UL certified)
Dimensions:	70mm (W) x 120mm (D) x 25mm (H)
Gross Weight:	520g
Net. Weight:	280g

FEATURES

- Supports v1.4 HDMI Audio Return Channel (ARC) function
- Support timings include SD, HD up to 1080p, PC up to WUXGA and 3D
- Analyse input source info-frame and output sink EDID
- Deep color video support up to 12-bits
- HD resolutions supported - 480i to 1080p + 1080p24fps
- PC resolutions supported - VGA to SXGA + WUXGA
- 3D modes supported - Frame Packing (720p@50/60, 1080p@24); Side-by-Side (half) (1080p@24/60, 720p@50/60); Top-and-Bottom (1080p@24/60, 720p@50/60)
- Provides 25 timings and 6 patterns
- OLED show Input / Output timing information
- Support input signal bypass, digital video formats in Deep Color Mode at up to 36 bits (12bits/color) and new lossless compressed (Dolby TrueHD, Dolby Digital Plus and DTS-HD master Audio) digital audio
- Supports internal pattern audio LPCM 2CH 48/96/192KHz, LPCM5.1 48/96 kHz, LPCM7.1 48/96KHz
- Supports 3D signals



HDCP & Colour Bandwidth Converter with Built-in HDMI Repeater (4K, HDCP2.2, HDMI2.0)

XA-HDCP



4K 3D HDMI2.0 HDCP2.2

The XA-HDCP is designed to enable installers to manage HDCP (High-Bandwidth Definition Content Protection) signals. Since the introduction of HDCP2.2, which is not backwards compatible with previous versions, installers face the challenge of managing copy protected content to allow AV signals to be integrated into any AV system. This device converts HDCP2.2 signals to a lower HDCP format enabling AV content to be easily integrated into a system which uses non-HDCP2.2 compliant devices, thus eliminating the need to upgrade all devices in the signal path to be HDCP2.2 compliant.

In addition to converting HDCP signals, the XA-HDCP can also analyse the content bandwidth, HDCP, EDID and Colourspace status of the inputted signal. Further features include the ability to upload EDID settings to a PC application which allows the user to create alternative EDID settings for specific applications. In addition, the XA-HDCP also acts as a HDMI repeater which equalises and recovers TMDS data before re-transmitting, thus ensuring optimal quality regardless of the incoming signal. This equalisation and repeater function enables the HDMI cable distance to be extended 5m from the output at full 4K (6G) resolution.

Control is via the direct selection keys, which allow easy switching between modes, and status LEDs provide 'at-a-glance' viewing of the device status.

SPECIFICATIONS

Input:	1x HDMI (1x HDMI 2.0 Uncompressed AV and Data) 1x USB Mini B (1x Service Port - Proprietary Data)
Output:	1x HDMI (1x HDMI 2.0 Uncompressed AV and Data)
Power:	5V/2.6A DC (US/EU standards, CE/FCC/UL certified)
Dimensions:	51mm (W) x 98mm (D) x 22mm (H)
Gross Weight:	450g
Net. Weight:	70g

FEATURES

- HDMI 2.0, HDCP 2.2, HDCP1.4 and DVI compliant
- Supports input source and output display signal analysis up to 6G 4K2K
- Supports bandwidth down converting from 6G to 3G
- Supports EDID signal management from internal, external, and user's EDID to be inserted
- Supports application control via USB
- Supports LED status display
- Supports USB firmware update



EDID / CEC Selector

XA-S11



3D HDMI

The XA-S11 high performance HDMI v1.3 synchroniser allows the user to set up a firm EDID and CEC connection between the source and the display, eliminating the time spent on signal configuration before receiving the signal.

SPECIFICATIONS

- Input:** 1x HDMI (1x HDMI Uncompressed AV and Data)
- Output:** 1x HDMI (1x HDMI Uncompressed AV and Data)
- Power:** 5V/1.2A DC (US/EU standards, CE/FCC/UL certified)
- Dimensions:** 97mm (W) x 125mm (D) x 30mm (H)
- Gross Weight:** 630g
- Net Weight:** 550g

FEATURES

- HDMI 1.3 and DVI 1.0 compliant
- EDID/CEC Synchroniser
- Resolutions supported: PC - VGA, SVGA, XGA, SXGA to UXGA. HDTV - 480i/p, 576i/p, 720p, 1080i/p
- HD Audio Supports: Dolby Digital TrueHD and DTS-HD and LPCM
- Embedded EDID
- Built-in CEC support with compliant CEC PHY
- Signal Enhancement feature allows you to improve signal quality after long distance transmission
- Switch & button selection for hard setting selection
- System Reset Function
- Supports 3D signals



1 to 4 Multi-Screen Controller

with 4K input support

DS-MSC14-4K



4K HDMI

The DS-MSC14-4K enables a 4K video wall to be created from any third party screens, the HDMI source can be displayed as a single image on each screen or 1 image across all screens. A single unit will create a 2x2 video wall. Multiple units can be combined with an HDMI distribution amp to create larger video wall configurations. Control is via RS-232, Telnet IP and our downloadable application which will allow full control of the DS-MSC14-4K from adjusting the bezel correction to pre-set video wall layouts.

SPECIFICATIONS

Input:	1x HDMI (1x Uncompressed AV and Data) 1x 9pin Dsub (1x RS-232 Data) 1x RJ45 (1x IP Control) 1x USB Mini B (1x Service Port Proprietary Data)
Output:	4x HDMI (4x Uncompressed AV and Data)
Power:	12V/3A DC (US/EU standards, CE/FCC/UL certified)
Dimensions:	482mm (W) x 274mm (D) x 52mm (H)
Gross Weight:	4256g
Net. Weight:	1300g

FEATURES

- Adjustable Bezel correction
- The DS-MSC14-4K can be combined together using a HDMI splitter allowing the creation of larger video walls.
- Video wall configurations can be pre-loaded into the our control application allowing simple switching between the video wall layouts.
- One button push control allows one command to be executed to all connected devices e.g instructing all the screens to show one image per screen.
- The DS-MSC14-4K can be controlled via RS-232, Telnet IP control or our piece of control software which can be found on the downloads tab of the website.
- Supported resolutions VGA~WUXGA, 480i~1080p, 4K UHD@24/25/30Hz (RGB 4:4:4 & YUV 4:2:2), 4K UHD@ 60Hz (YUV 4:2:0), 4K/2K@24/25/30Hz (RGB 4:4:4 & YUV 4:2:2) and 4K/2K@ 60Hz (YUV 4:2:0) dependent upon the output display's EDID settings
- Audio supported LPCM 2CH, 6CH, 8CH/AC3/ DTS/Dolby Digital Plus/ Dolby TruHD & DTS-HD
- HDMI, HDCP 1.4 and DVI compliant



Cascadable 1 to 4 Multi-screen Controller

DS-MSC14



HDMI

The 1 by 4 HDMI TV Wall controller allows an HDMI input source to be displayed, in full screen or single mode, on up to 4 HDMI displays (TV or monitor). Multiple units can be cascaded to extend the HDMI signal up to as many displays as needed. The unit features bezel correction function. A simple control application enables users to control single or multiple units. The device supports video timings up to WUXGA@60RB and 1080p@60Hz, audio format up to 7.1CH LPCM at 192kHz sampling rate based on input source EDID. Control can be achieved through software application, Telnet and RS-232.

SPECIFICATIONS

Input:	1x HDMI (1x HDMI Uncompressed AV and Data) 1x 9pin Dsub (1x RS-232 Data) 1x RJ45 (1x IP Control) 1x USB Mini B (1x Service Port Proprietary Data)
Output:	4x HDMI (4x HDMI Uncompressed AV and Data)
Power:	12V/3A DC (US/EU standards, CE/FCC/UL certified)
Dimensions:	436mm (W) x 256mm (D) x 49mm (H)
Gross Weight:	3815g
Net. Weight:	2815g

FEATURES

- HDMI, HDCP1.4 and DVI compliant
- Output source signal to 4 displays (2 by 2 Video wall) as a full screen or single image with adjustable Bezel Correction
- Cascade the HDMI signal up to as many as required
- Software application allows one button push to control all connected TV Wall devices
- Supports RS232 and Telnet controls
- Input resolutions support VGA~WUXGA and 480i~1080p
- Output resolutions support 720p~1080p
- Supports different input resolution and output resolution selectable from OSD menu. The factory default output resolution is native to the connected screen.
- Audio supports LPCM 2CH, 6CH, 8CH/AC3/DTS/ Dolby Digital Plus/ Dolby TruHD & DTS-HD



Individual Screen Controller

for use with 3rd party HDMI screens

DS-MSC



HDMI

The DS-MSC is designed to manage audio and video signals to emulate a video wall when using third-party screens. This controller will control the digital signage content for each screen on a video wall system using up to 25 screens. One controller is required per screen. If the user has only one HDMI or VGA source, then an appropriate Distribution Amplifier (Splitter) will be required to split the source signal to each of the Multi-Screen Controllers feeding the screens.

SPECIFICATIONS

Input:	1x HDMI (1x HDMI Uncompressed AV and Data) 1x 3.5mm Stereo mini-jack (1x Analogue Stereo(L/R)) 1x 15pin Dsub (1x RGBHV) 1x 9pin Dsub (1x RS-232 Data) 1x 3.5mm Stereo mini-jack (1x Infra Red Receiver)
Output:	1x HDMI (1x HDMI Uncompressed AV and Data) 2x RCA (1x Analogue Stereo (L/R)) 1x 9pin Dsub (1x RS-232 Data)
Power:	5V/3A DC (US/EU standards, CE/FCC/UL certified)
Dimensions:	250mm (W) x 150mm (D) x 50mm (H)
Gross Weight:	880g
Net. Weight:	740g

FEATURES

- HDMI, HDCP1.4 and DVI compliant
- Output source signal to 4 displays (2 by 2 Video wall) as a full screen or single image with adjustable Bezel Correction
- Cascade the HDMI signal up to as many as required
- Software application allows one button push to control all connected TV Wall devices
- Supports RS232
- Input resolutions support VGA~WUXGA and 480i~1080p
- Output resolutions support 720p~1080p
- Supports different input resolution and output resolution selectable from OSD menu. The factory default output resolution is native to the connected screen.
- Audio supports LPCM 2CH, 6CH, 8CH/AC3/DTS/ Dolby Digital Plus/ Dolby TruHD & DTS-HD



15 Button Control Keypad (2-gang) with IP & Relay

CR-KP1



LAN PoE

The CR-KP1 is a wall-mount keypad control system and is ideally suited for any AV install environment such as conference/meeting rooms, classrooms, and home cinemas allowing commands for multiple devices such as the EL-5500 to be programmed into one easy-to-use device. The CR-KP1 supports PoE (Power over Ethernet) or a DC power supply and allows full control of any devices that are on the same local network and support IP Telnet control. Additionally the CR-KP1 also incorporates two contact-closure connections allowing control of third party devices such as powered projector screens. The CR-KP1 includes a scheduling function allowing macros to be implemented at a pre-selected time and date, for example turning all the equipment off at the end of the day.

All the features of the CR-KP1 can be programmed using the Web Gui which can be accessed by simply searching the IP address in your internet browser.

We have also introduced our own piece of software, the CYP Discovery Protocol Service, that will locate any CYP product on a network and display their product code and IP address.

FEATURES

- Adjustable brightness and colour settings for the keypad buttons
- Each keypad button can be assigned one command or macro
- Up to 16 commands can be stored in each macro
- A further 15 macros can be stored within the software application and can be called upon within the commands of the macros assigned to the keypad buttons.
- Scheduling function allows macro commands to be implemented at a pre-selected time
- Web Gui for programming
- 2 x Volt Free contact closure relay outputs
- Supports PoE (Power over Ethernet)

SPECIFICATIONS

Input:	1x RJ45 (1x (supports PoE) LAN Servng)
Output:	2x Phoenix (2 pin) (2x Contact Closure Relay Outputs)
Power:	5V/2.6A DC (US/EU standards, CE/FCC/UL certified)
Dimensions:	148mm (W) x 87mm (D) x 30mm (H)
Gross Weight:	528g
Net. Weight:	228g



Infra Red over CAT5e/6 Extender Set

PU-IR01-KIT



IR

The IR Extender and Repeater set is perfect for controlling IR controlled source equipment over long distances. Up to five sources can be controlled using this extender set. Two sources can be controlled locally to the repeater, whilst the remaining three sources can be controlled locally to the extender, which can be located up to 250m away via CAT5/6 cable. This system allows for the sources to be controlled by their own original remote controls, from extended distances. A 5-eye emitter accessory can be supplied for additional control of extra source equipment.

FEATURES

- Supports five outputs (two from the repeater, three from the extender)
- Control source equipment from a distance of up to 250 metres away, via CAT5/6 cable
- Transmits infrared signals only
- Allows the use of existing remote controls
- IR Receiver's frequency is at 20~60 kHz

SPECIFICATIONS

Input:	(PU-IR12) 1x 3.5mm Stereo mini-jack (1x Infra Red Receiver) (PU-IR03) 1x RJ45 (1x IR Proprietary Data)
Output:	(PU-IR12) 2x 3.5mm Stereo mini-jack (2x Infra Red Emitter) 1x RJ45 (1x IR Proprietary Data) (PU-IR03) 3x 3.5mm Stereo mini-jack (3x Infra Red Emitter)
Power:	5V/1.2A DC (US/EU standards, CE/FCC/UL certified)
Dimensions:	(PU-IR03) 50mm (W) x 65mm (D) x 25mm (H) (PU-IR12) 50mm (W) x 65mm (D) x 25mm (H)
Gross Weight:	580g
Net. Weight:	420g



RS-232 Control over CAT5e/6 Extender Set

PU-232



RS-232

The CAT5/6 RS-232 extender is a hardware-based solution providing control of any RS-232 protocol device. This transmitter and receiver set will extend the control of RS-232 for over 250 meters. The RS-232 extender also provides full duplex transmission and hardware handshake signals, with no need for any set up or configuration.

FEATURES

- Extends any RS-232 compliant device up to 250 metres from the source to display
- Requires only one CAT5/6 cable
- Perfect for digital signage applications
- Baud Rate: 110~921600. Data bit: 8bit
- Simple installation and operation

SPECIFICATIONS

Input: (RX) 1x RJ45 (1x RS-232 Proprietary Data)
(TX) 1x 9pin Dsub (1x RS-232 Data)

Output: (RX) 1x 9pin Dsub (1x RS-232 Data)
(TX) 1x RJ45 (1x RS-232 Proprietary Data)

Power: 5V/1.2A DC (US/EU standards, CE/FCC/UL certified)

Dimensions: (TX) 50mm (W) x 70mm (D) x 25mm (H)
(RX) 50mm (W) x 70mm (D) x 25mm (H)

Gross Weight: 380g

Net. Weight: 260g



USB 2.0 Extender Kit over Single CAT5e/6 (100m)

PU-USB-KIT



USB

The PU-USB-KIT is a USB over CAT5e/6 transmitter and receiver that has been developed to extend USB devices over long distances via CAT5e/6 cable infrastructure. This kit allows any USB host to send data within a 100m range while offering up to 4 USB outputs, giving this product the ability to act like a USB hub.

SPECIFICATIONS

Input:	1x RJ45 (1x USB & Proprietary Data)
Output:	4x USB Type A (4x USB & Proprietary Data)
Power:	5V/3A DC (US/EU standards, CE/FCC/UL certified)
Dimensions:	104mm (W) x 95mm (D) x 26mm (H)
Gross Weight:	1140g
Net. Weight:	560g

FEATURES

- Supports all major operating systems including Windows®, MAC OS®, and Linux
- Supports USB 2.0 high-speed and USB 1.1 (full-speed, low-speed) devices
- True plug and play without the need to install drivers
- Display or control the host device
- Proven up to 100m CAT5 cable distance without lag
- Each USB port carries 500mA of power
- Total transmission frequency 1 GHz
- Please note: Whilst this product is compatible with USB2.0 and USB1.1 devices, it is not suitable for use with USB video/conference cameras due to the nature of the signals these devices transmit.



4K Certified HDMI Cables

High Performance HDMI Cables

Giving the ultimate in HD performance at a real world price.

Our 1m to 7m HDMI cables support HDMI 2.0, 4K Certified, High Speed with Ethernet featuring 99.999% oxygen free copper and hard wearing durable moulded plugs.

HDMI2-101 1m

HDMI2-102 2m

HDMI2-103 3m

HDMI2-105 5m

HDMI2-107 7m

Standard Speed (non-4K):

HDMI2-110 10m

HDMI2-115 15m

Ultra Slim HDMI Cables

For installations where space is a premium, such as wall-mounted flat-screen TVs.

Our latest Ultra Slim HDMI cable range offer high speed performance in a very discreet package.

HDMI2-050-US 0.5m

HDMI2-101-US 1m

HDMI2-151-US 1.5m

HDMI2-102-US 2m

HDMI2-103-US 3m

Flexi Form HDMI Cables

Our Flexi-Form HDMI cable range features an innovative construction that allows each cable to be manipulated into any desired shape that will be retained.

This is the ideal solution for custom installers looking to easily achieve a perfectly dressed rack for their clients.

HDMI2-030-FX 0.3m

HDMI2-050-FX 0.5m

HDMI2-075-FX 0.75m



How To Order

Our Sales Office is open between the hours of **8.30am** and **5.30pm** five days a week to service your orders. Our Sales Team is waiting to provide information and support on our full product range, supported by our extensive on-line product and technical database, available 24-7. We can accept your orders by phone, email, online, fax or by post.

And now with our advanced e-commerce facility, ordering is available 24 hours a day, every days of the week at www.cie-group.com.

Call or email us now for your online account login details.



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Fax: +44(0)115 9770081



Mail to: CIE-Group Ltd 3 Widdowson Close Blenheim Ind Est Bulwell Nottingham NG9 8WB UK



Methods of Payment:

- **Credit Account** (Contact the sales office for an application form)
- **Credit or Debit Card** (Most major cards accepted online or via telephone)
- **Cheque with order** (Clearance required before goods can be released)
- **Bank Transfer**



Delivery Options:

Standard Delivery:

Orders received before 3.30pm - 1~2 working days (Registered Carrier)

Orders received post 3.30pm - 2~3 working days (Registered Carrier)

(Charges based on consignment weight)

Next Day Delivery/Next Day AM/Saturday Delivery/International:

The CIE-Group Sales Team will advise on a range of flexible options to meet your specific needs on delivery times, dates and costs.

Product index

PART No.	PAGE No.	PART No.	PAGE No.	PART No.	PAGE No.	PART No.	PAGE No.
AU-11CA	41	EL-5500-HBT	104	PU-1H7H8TE	124	PUV-1510TX	76
AU-11CA-4K22	40	HDMI2-030-FX	164	PU-1H7H8TPL	125	PUV-1530RX	73
AU-11CD	39	HDMI2-050-FX	164	PU-232	162	PUV-1530TX	72
AU-11CD-4K22	38	HDMI2-050-US	164	PU-2H8H8TE-AD	108	PUV-2000RX	71
AU-11DD	43	HDMI2-075-FX	164	PU-304-KIT	59	PUV-2000TX	70
AU-11SA	37	HDMI2-101	164	PU-305BDA-RX	63	PUV-2010RX	69
AU-11SA-4K22	36	HDMI2-101-US	164	PU-305BDA-TX	62	PUV-2010TX	68
AU-1H1DD-4K22	35	HDMI2-102	164	PU-305BD-RX	61	PUV-442-4K22	22
AU-1HARC	57	HDMI2-102-US	164	PU-305BD-TX	60	PUV-44XLPL-4K22-KIT	26
AU-22DD	42	HDMI2-103	164	PU-424H8TE	25	PUV-662-4K22	16
AU-A300	33	HDMI2-103-US	164	PU-442PL-KIT	24	PUV-662PL-4K22	18
AU-A300-HBT	32	HDMI2-105	164	PU-44XL-KIT	27	QU-10-4K22	119
AU-A50	34	HDMI2-107	164	PU-507RX	87	QU-12D	133
AU-D12	54	HDMI2-110	164	PU-507TX	86	QU-12S	132
AU-D14	53	HDMI2-115	164	PU-507TX-1H	85	QU-14S	127
AU-D18	58	HDMI2-151-US	164	PU-507TX-HDVGA	84	QU-16E-4K	118
AU-D1D	45	IN-DVI-8	7	PU-507WPRX	88	QU-18S	122
AU-D2	49	IN-HBT5P-4K-8	7	PU-514L-RX	93	QU-2-4K22	131
AU-D21	51	IN-HDMI-4K-8	7	PU-514L-TX	92	QU-4-4K22	126
AU-D250-4K22	55	IN-HDMI-8	7	PU-515PL-RX	91	QU-8-4K22	120
AU-D3-192	47	IN-VGA-8	7	PU-515PL-TX	90	QU-8MS	121
AU-D4	48	IP-6000RX	67	PU-607BD-RX	82	RE-101	149
AU-D41	50	IP-6000TX	66	PU-607BD-TX	80	RE-EDID	148
AU-D5D	44	Modular Matrices	7	PU-607BDWP-RX	83	RE-HDEQ	150
AU-D820S	52	OR-44-4K22	28	PU-607BDWP-TX	81	RE-PI	151
AU-D9	46	OR-HD44S	29	PU-8H8H8TE	14	SY-298H24	141
AU-IP21	56	OR-HD62CD	21	PU-8H8H8TE-4K22	12	SY-300H	136
CM-388M	144	OR-HD62CD-4K22	20	PU-8H8H8TPL	15	SY-398H	142
CR-KP1	160	OUT-DVI-8	7	PU-8H8H8TPL-4K22	13	SY-4KS	140
DS-MSC	159	OUT-HBT3P-8	7	PU-DV11109RX	95	SY-P290	139
DS-MSC14	158	OUT-HBT4P-8	7	PU-DV11109TX	94	SY-P293	137
DS-MSC14-4K	157	OUT-HBT5P-4K-8	7	PU-HBT-EX	97	SY-P295N	138
EL-21SY	117	OUT-HDMI-4K-8	7	PU-HBTE-ZE	96	SY-PT385A	143
EL-31SY	116	OUT-HDMI-8	7	PU-IR01-KIT	161	XA-1	154
EL-41HP-4K22	113	PRO-H2-3GSDI	145	PU-Q1H8CS	123	XA-2	153
EL-41PIP	111	PRO-SDIHDMI	146	PU-USB-KIT	163	XA-4	152
EL-41S-4K22	114	PU-1106RX	101	PUV-1082-4K22	8	XA-HDCP	155
EL-41SY	115	PU-1106TX	100	PUV-1082PL-4K22	10	XA-511	156
EL-42PIP	110	PU-1107RX	99	PUV-1210PL-RX	79		
EL-42S	112	PU-1107TX	98	PUV-1210PL-TX	78		
EL-5400	107	PU-1H2H8TE	130	PUV-1230PL-RX	75		
EL-5400-HBT	106	PU-1H3H8TE	128	PUV-1230PL-TX	74		
EL-5500	105	PU-1H3H8TPL	129	PUV-1510RX	77		



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