

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:	4x HDMI [4x HDMI Uncompressed AV and Data] 4x RCA [2x Analogue Stereo (L/R)] 1x RCA [1x Coaxial DTS / Dolby Digital / 2 Channel LPCM] 1x Toslink [1x Optical DTS / Dolby Digital / 2 Channel LPCM] 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 Type A [1x Service Port Propriety Data]
Output:	4x RJ45 [4x HDBaseT HDMI & Propriety Data] 2x HDMI [2x HDMI Uncompressed AV and Data] 8x RCA [4x Zone Analogue Stereo (L/R)] 4x RCA [2x Extended Analogue Stereo (L/R)] 5x 3.5mm Stereo mini-jack [5x Infra Red Emitter]

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

PoC Power: Power over HDBaseT

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

Gross Weight: 8000g

Net. Weight: 6000g

Compatible HDBaseT Receivers (RX)

PUV-1530RX



PUV-1510RX

