



PUV-1810-AVLC-KIT

HDBaseT1 Full 4K AVLC Series Transmitter & Receiver Kit with LAN & PoH



The PUV-1810TX-AVLC Transmitter and Receiver Kit enables video resolutions up to 4K UHD including 10/12-bit HDR & Dolby Vision, to be transmitted along with HD audio, 2-Way IR, RS-232, PoH (Power over HDBaseT) and LAN signals up to a distance of 70m (4K 60 4:4:4); 100m (4K 60 4:2:0). 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.

Despite the 10.2Gbps limitation of HDBaseT™ technology, this ground breaking product enables data rates of up to 18Gbps to be transmitted using AVLC (Adaptive Visually Lossless Compression) Technology. The transmitter enables 4KUHD sources up-to and including 4K@60Hz (4:4:4 8-bit) as well as 10/12 bit sources with HDR (Including Dolby Vision) to be extended to the receiver. The result is a perfect 4K 6G visually lossless image delivered to the display screen.

PANELS

Transmitter



Front View



Rear View

Receiver

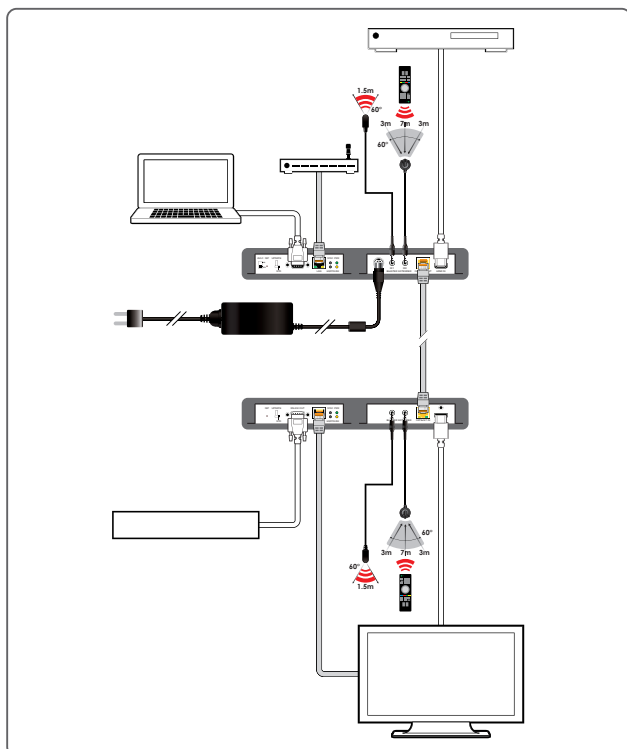


Front View



Rear View

DIAGRAM



FEATURES

- HDBaseT 5-Play™ convergence: high-definition video and audio, 100BaseT ethernet, PoH (Power over HDBaseT) and control (Bi-Directional IR & RS-232 pass through)
- Supports up-to 4K UHD (18Gbps, 4K @50/60Hz 4:4:4 8-bit) video output
- AVLC (Adaptive Visually Lossless Compression)
- AVLC features manual selection between high quality and standard compression from TX (useful for longer cable runs)
- Supports 10-bit and 12-bit HDR (High Dynamic Range)
- Supports output resolutions up to 4K @50/60Hz (4:4:4 8-bit)
- Supports Deep Colour input and output up to 12-bit
- Supports CEC Bypass
- 4K 3G Timings and 1080p up-to 100 Metres, 4K 6G timings up to 70 Metres
- 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 3D signals

SPECIFICATIONS

Interfaces

Transmitter

Input Port	1×HDMI (Type-A)
Output Port	1×HDBaseT (RJ-45)
Pass-through Port	1×IR Extender [3.5mm] 1×IR Blaster [3.5mm] 1×RS-232 (DE-9)

Receiver

Input Port	1×HDBaseT (RJ-45)
Output Port	1×HDMI (Type-A)

Pass-through Port	1×IR Extender [3.5mm] 1×IR Blaster [3.5mm] 1×RS-232 (DE-9) 1×LAN [RJ-45]
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Video

HDMI Compliance	2.0 (DVI 1.0)
HDCP Compliance	2.X
Input Signal Type	4K@60 8bit YUV 4:4:4, HDR
Output Signal Type	4K@60 8bit YUV 4:4:4, HDR

Resolutions

Maximum Input	HDMI	4096×2160p@60
Maximum Output	HDBaseT	4096×2160p@60

Power

Power Supply	48V/0.83A DC (US/EU standards, CE/FCC/UL certified)
Power Consumption	[TX] 8.47W, [RX] 10W (PoH)

Enclosure

Chassis Material	Metal
Chassis Colour	Black
Dimensions (W×H×D)	[TX] 128mm×25mm×108mm [Case Only] [TX] 128mm×25mm×117mm [All Inclusive] [RX] 128mm×25mm×108mm [Case Only] [RX] 128mm×25mm×117mm [All Inclusive]
Weight	[TX] 385g, [RX] 386g

Field Firmware Update

PC Update, WebGUI

ORDERING INFORMATION

Model No.	Product Description
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