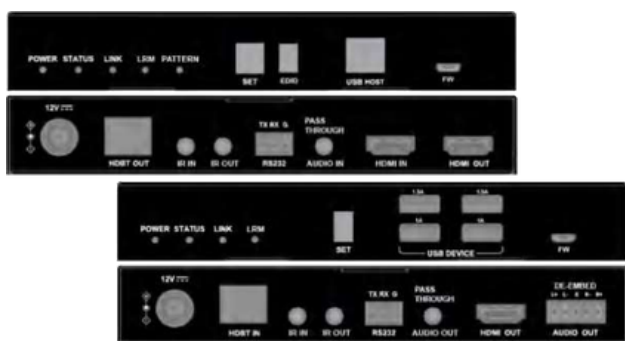


AVG-PEX150KVM-4K60

4K@60Hz 150m HDBaseT Extender with Loop Out



This AVönic product is a 4K@60Hz 4:4:4 HDBaseT extender utilizing DSC compression for superior video quality. It supports HDMI 2.0 and HDCP 2.3 standards for broad compatibility. The extender transmits 4K@60Hz signals up to 100m over a single Cat 6/6A/7 cable in HDBaseT mode, and 1080P signals up to 150m over a single Cat 5e/6/6A/7 cable in Long-Reach Mode (LRM). The transmitter features two DIP switches for RS232 functions (pass-through and firmware upgrade), HDBaseT or LRM mode selection, test pattern control, and EDID management. The receiver's DIP switch controls RS232 functions (pass-through and firmware upgrade) and HDBaseT or LRM mode selection. Additional features include HDMI loop-out on the transmitter, audio pass-through from transmitter to receiver, audio de-embedding on the receiver, bi-directional IR pass-through, and one-way PoC (power supplied from the receiver powers both units).

Features

- AVon-Link technology simplifies audio & video routing and enhances system flexibility and ease of use.
- Supports resolutions up to 4K@60Hz 4:4:4 using DSC compression technology for superior image quality.
- HDCP 2.3 compatibility.
- Supports transmitting 4K signal up to 100m/330ft via a single Cat 6/6A/7 cable in HDBaseT mode, and transmitting 1080P signals up to 150m via a single Cat 5e/6/6A/7 cable in Long-Reach Mode (LRM), and the two modes can be toggled via DIP switches on the transmitter and receivers.
- Supports HDMI loop-out.
- Supports EDID management via the DIP switch on transmitter side.
- Supports test pattern function, and can be enable/disable via the DIP switch on transmitter side.
- Supports bi-directional RS232 pass-through.
- Supports audio pass-through from the transmitter to the receiver.
- Supports de-embed audio output on receiver side.
- Supports bi-direction IR Pass-through.
- Support one-way PoC, one power source is needed to be connected to the receiver to power both units.
- Supports firmware upgrade for easy maintenance.

Specifications

Technical	
Input / Output Signal Type	HDMI 2.0 with 4K@60Hz 4:4:4, HDCP 2.3
Input / Output Resolution	<p>VESA: 800 x 600, 1024 x 768, 1280 x 768, 1280 x 800, 1280 x 960, 1280 x 1024, 1360 x 768, 1366 x 768, 1440 x 900, 1600 x 900, 1600 x 1200, 1680 x 1050, 1920 x 1200, 1080P7,8,9, 2048 x 1152, 2560 x 1440, 2560 x 1600, 3440 x 1440, 3840 x 1080</p> <p>CTA: 1280x720P5,6,7,8,9, 1920x1080P1,2,3,5,6, 3840x2160P1,2,5,6, 4096x2160P5,6 1 = at 24 (23.98) Hz, 2 = at 25 Hz, 3 = at 30 (29.97) Hz, 4 = at 48 Hz, 5 = at 50 Hz, 6 = 60 (59.94) Hz, 7 = 75Hz, 8 = 100Hz, 9 = 120Hz</p>
Maximum Data Rate	18Gbps
Audio Format Supported	HDMI IN/OUT: Up to 7.1ch, including PCM 2.0/5.1/7.1ch, Dolby Digital, Dolby Digital Plus, Dolby TrueHD, Dolby Atmos, DTS 5.1, DTS-HD Master Audio and DTS:X. AUDIO OUT: PCM 2.0

General	
Operating Temperature	0°C to 45°C (32°F to 113°F)
Storage Temperature	-20°C to 70°C (-4°F to 158°F)
Humidity	10% to 90%, non-condensing
ESD Protection	Human-body Model: ±8kV (Air-gap discharge)/ ±4kV (Contact discharge)
Power Supply	12V/3A

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Power Supply	12V/3A
Power Consumption (Max)	29.52W
Device Dimension (W x H x D)	Transmitter/Receiver: 140mm x 25mm x 100mm / 5.51" × 0.98" × 3.94"
Product Weight	Transmitter: 0.33kg / 0.73lb Receiver: 0.34kg / 0.75lb

Transmission Distance

Note: Straight-through category cable wired to T568B standard is recommended. The device supports HDBaseT mode and Long-Reach mode, and can be set via DIP Switches on the transmitter and receiver. Detail setting information, please refer to “DIP Switch Control” section.

HDBaseT Mode (default):

Cable Type	Range	Supported Video
Cat 5e	100m / 330ft	1080P@60Hz
	90m / 295ft	1080P@60Hz, 3D 4K@30Hz 4:4:4 4K@60Hz 4:4:4
Cat 6/6A/7	100m / 330ft	

Long reach:

Cable Type	Range	Supported Video
Cat 5e/6/6A/7	150m / 492ft	1080P@60Hz

HDMI:


Cable Type	Range	Supported Video
HDMI	Input / Output: 15m / 49ft	1080P@60Hz 4K@30Hz 4:4:4
	Input / Output: 10m / 33ft	4K@60Hz 4:4:4



Contact


Head Office


 Rose Gate Common, Livermore, CA-94551

 +1 (470) 301-0555

 [Avonicgroup.com](https://www.avonicgroup.com)

Branch Office

 Curtis House, 34 Third Avenue, Brighton
& Hove, Hove BN3 2PD, UK

 Strada Vasile Conta 6,
Bucureşti, 020953, Romania

 Jumeirah Lake Towers, Dubai, UAE