AVPro edge

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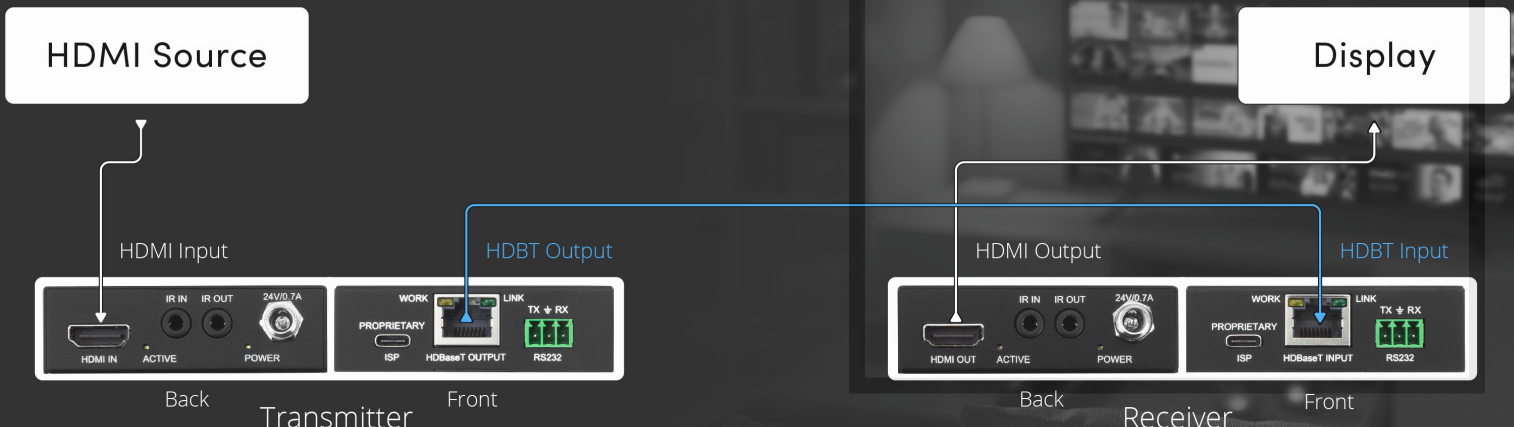INFO@AVPROEDGE.COM
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150 Meter 4K HDMI Extender
AC-EX150-BKT

The AC-EX150-BKT is an AVPro Edge benchmark long-distance HDMI extender. Game-changing at 150 meters for 1080p, it overcomes infrastructure obstacles, including dated anti-skew wiring. Underrated Category 5e wire commonly found in retro scenarios and signal-disruptive splices, couplers, or punch-down blocks are no match for the AC-EX150-BKT, as it will also transport 18 Gbps, 4K HDMI 2.0 signals flawlessly for 100 meters. AVPro Edge mainstay multi-tool features help to augment the AC-EX150-BKT's retrofit capabilities. These include EDID management, updated robust CEC capabilities, 4K to 1080p downscaling, kit PoH from a single PSU, and bi-directional RS-232 and IR control. Make retrofitting retro-cool with the AVPro Edge AC-EX150-BKT.

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AC-EX150-BKT

Connection Diagram
150m (492ft) 1080p HDMI Extension with HDBaseT

HDMI
Cat 6a

HDMI Source

Display

HDMI Input

HDBT Output

HDMI Output

HDBT Input

Back — Transmitter — Front

Back — Receiver — Front

PRODUCT SPECIFICATIONS

VIDEO	
Video Resolutions	Up to 4K 60 Hz 4:4:4
VESA Resolutions	Up to DCI 4K (4096x2160)
Color Space	YUV (Component), RGB (CSC: Rec. 601, Rec. 709, ITU R-BT.2020, DCI-P3-D65)
Chroma Subsampling	4:4:4, 4:2:2, 4:2:0 Supported
Deep Color	Up to 16-bit (1080p) Up to 12-bit (4K)
AUDIO	
Audio formats Supported HDMI	PCM 2.0 Ch, LPCM 5.1 & 7.1, Dolby Digital, Dolby Digital Plus, Dolby TrueHD, Dolby Atmos, DTS 5.1, DTS-HD Master Audio, DTS:X
DISTANCE	
HDBaseT Distance (4K & HDR)	100 m (330 ft) (Cat 6a)
HDBaseT Distance (Full HD)	150 m (492 ft) (Cat 6a)
HDMI Lead In/Out	Up to 50 ft (Using Bullet Train HDMI)
HDMI Lead In/Out (W/ AOC Cable)	Up to 130 ft (Using Bullet Train AOC)
OTHER	
Bandwidth:	18 Gbps
HDCP	HDCP 2.3 and earlier
PORTS	
HDMI (TX & RX)	Type A
HDBaseT	RJ45 w/ PoH for HDBaseT Receivers
IR RX (TX & RX)	3.5 mm stereo (3-conductor)
IR TX (TX & RX)	3.5 mm mono (2-conductor)
RS-232 (TX & RX)	3-pin Euroblock
Power (TX & RX)	Barrel Type
ENVIRONMENTAL	
Operating Temperature	23°F to 125°F (-5°C to 51°C)
Storage Temperature	-4°F to 140°F (-20°C to 60°C)
Humidity Range	5% to 90% RH (No Condensation)
POWER	
Power Consumption (Total)	16.8 Watts maximum
Power Supply - Matrix	Input: AC 100-240V ~ 50/60 Hz Output: DC 24V at 0.7 A
DIMENSIONS	
Dimensions (Unit Only Height/ Depth/Width)	mm: 100 x 69 x 23 in: 3.94 x 3.72 x 0.91
Dimensions (Packaged Height/ Depth/Width)	mm: 152 x 267 x 85 in: 6 x 10.5 x 3.35
Weight (Unit)	6.2 oz (0.39 lbs.) (0.17 kg)
Weight (Packaged)	18.08 oz (1.13 lbs.) 18.08 (0.51 kg)

*SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE. MASS & DIMENSIONS ARE APPROXIMATE.

KEY FEATURES

Overcome HDMI Signal Delivery Challenges
The revolutionary AC-EX150-BKT enables successful HDMI signal transmission over otherwise impossible infrastructure obstacles. When transmit/receive signal extension kits became available, skew-free AV UTP cabling was required. From its appearance, this wire is easily mistaken for a Category network cable. When early HDMI cables replaced outdated kits, this wire was commonly repurposed for control or IR use. As bandwidth requirements intensified and HDMI 1.4 cables proved incompatible, updated extension kit features enabled all required functionality to be accomplished with a single Category wire. However, skew-free UTP is incompatible with current HDMI devices – except for the AC-EX150-BKT. Specifically engineered for installations with any 8-conductor legacy Category wire, the AC-EX150-BKT enables commercial and residential integrators to deliver 1080p up to 150 meters and 4K UHD content up to 100 meters to retro-prohibitive, conduit-lacking locations.

150-Meter, Long-Distance Capability
The 150-meter range for 1080p is supported using legacy Cat5e, which first became available in 2001, and newer category designations. Up to 100 meters is possible over Cat 5e for 4K UHD signals.

EDID Management
As displays become more complex, the demands on the EDID negotiation process intensify. Configurable EDID management provides stable signal delivery for trouble-free system operation.

4K Downscaling to 1080p
Cost-conscious retrofit projects often require the retention of legacy displays. An inability to scale distributed images to match all displays forces the entire system to match the lowest scan rate. Per-display scan rate matching provides the best image available to each display in a system.

AVPro Edge Image Compression Technology
In a challenging infrastructure environment, simply delivering a workable signal to a display is inadequate. Picture fidelity is paramount. The AC-EX150-BKT with AVPro Edge ICT provides a clear, artifact-free image identical to the source.

Bi-directional RS-232, IR Control
The AC-EX150-BKT features full bidirectional pass-through for RS-232 and IR control signals.