AVProedge

ULTRA SLIM 40M 4K60 (4:4:4)
HDR HDBᴀꜱᴇT EXTENDER
AC-EX40-444-PLUS-KIT

HDBᴀꜱᴇT™ **HDMI®** **HDCP™**
HIGH-DEFINITION MULTIMEDIA INTERFACE   HIGH-BANDWIDTH DIGITAL CONTENT PROTECTION
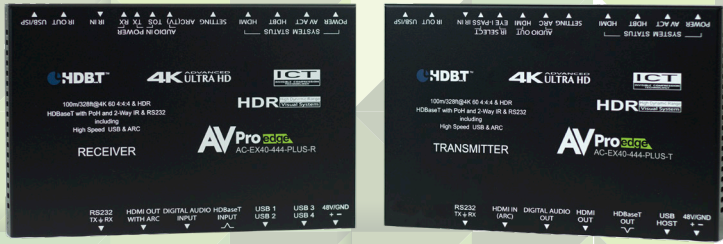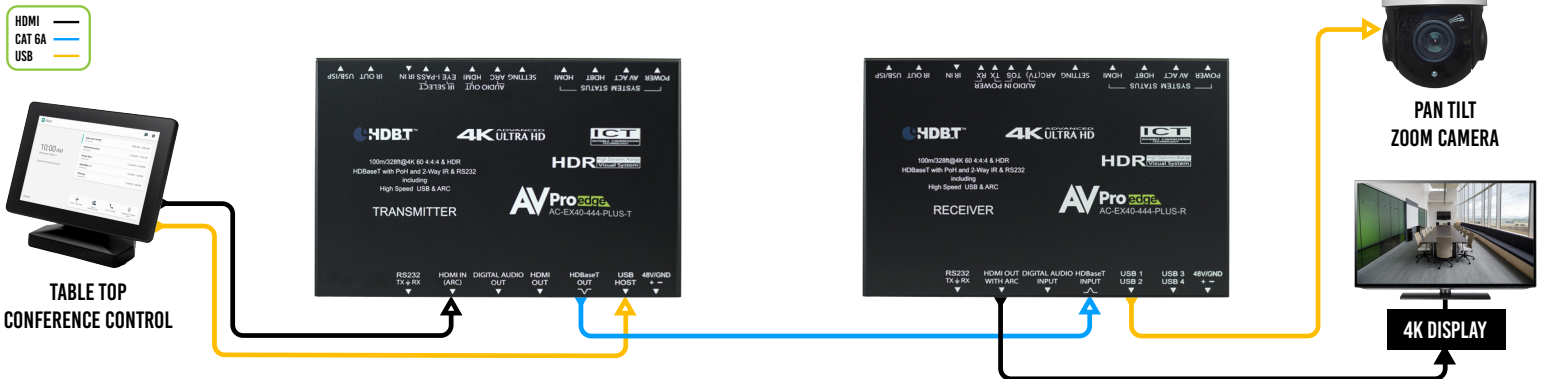
THE AC-EX40-444-PLUS-KIT IS NOT YOUR AVERAGE POINT TO POINT HDMI EXTENDER. THIS UNIQUE PRODUCT EXTENDS AN 18Gʙᴘꜱ 4K60 (4:4:4) AUDIO/VIDEO SIGNAL 40 METERS OVER SINGLE CAT USING ICT (INVISIBLE COMPRESSION TECHNOLOGY) AND MANAGES ALL FLAVORS OF HDR AND DOLBY VISION. THIS EXTENDER WAS ENGINEERED TO ALSO INCLUDE BI-DIRECTIONAL USB EXTENSION. CONTROL A COMPUTER 40 METERS AWAY WITH A KEY BOARD OR MOUSE CONNECTED TO THE RECEIVER, CONNECT A PTZ CAMERA TO THE TRANSMITTER AND CONTROL IT VIA A CONFERENCE ROOM CODEC CONNECTED TO THE RECEIVER; THE OPTIONS ARE ENDLESS.

ICT is a revolution in HDMI extension. This proprietary technology can compress high bandwidth HDMI signals into a more manageable size to fit through a CAT Cable "pipe". The ICT algorithm can manage all versions of HDR as well as signals up to 18Gbps and 4K 60Hz 4:4:4. This allows integrators to install the latest sources with confidence and impress customers with an immersive HDR experience. This extender also works with the latest version of HDBaseT's chipset which brings an added stability to your installation. With bi-directional power, left/right audio breakouts, EDID management, scaling, built-in 4K test patterns, IR, RS-232, ARC, and bi-directional USB connection ports included, these extenders are unparalleled.

BI-DIRECTIONAL USB EXTENSION

AC-EX40-444-PLUS-KIT

HDMI ——
CAT 6A ——
USB ——

TABLE TOP
CONFERENCE CONTROL

PAN TILT
ZOOM CAMERA

4K DISPLAY

PRELIMINARY PRODUCT SPECIFICATIONS

VIDEO

VIDEO RESOLUTIONS	UP TO 4K 60HZ 4:4:4
VESA RESOLUTIONS	UP TO DCI 4K (4096x2160)
HDR FORMATS/RESOLUTIONS	420, 422, 444 (10 AND 12 DEEP COLOR) HDR10, HDR10+, DOLBY VISION (24/30 FRAMES), HLG
COLOR SPACE	YUV (COMPONENT), RGB (CSC: REC. 601, REC. 709, BT2020, DCI, P3 D6500)
CHROMA SUB-SAMPLING	4:4:4, 4:2:2, 4:2:0 SUPPORTED
DEEP COLOR	UP TO 16 BIT (1080), UP TO 12 BIT (4K)
DOWNSCALING	4K (AND HDR) DOWN TO 1080P

AUDIO

AUDIO FORMATS SUPPORTED HDMI	PCM 2.0 CH, LPCM 5.1 & 7.1, DOLBY DIGTAL, DTS 5.1, DOLBY DIGITAL PLUS, DOLBY TrueHD, DTS-HD MASTER AUDIO, DTS-X, DOLBY ATMOS
AUDIO FORMATS SUPPORTED EXTRACTED (TOSLINK Tx ONLY)	PCM 2.0 CH, LPCM 5.1 & 7.1, DOLBY DIGTAL, DTS 5.1, DOLBY DIGITAL PLUS, DOLBY TRUEHD, DTS-HD MASTER AUDIO

USB (SELECTABLE HOST)

VERSION	USB 2.0
Tx PORT	USB HOST = USB TYPE B (X2) USB TYPE A (X1)
Rx PORTS	USB HOST = USB TYPE B (X2) USB TYPE A (X1)

DISTANCE

HDBaseT (CAT) DISTANCE (4K)	40M (131 FEET)
HDBaseT (CAT) DISTANCE (FULL HD)	70M (230 FEET)
HDMI LEAD IN/OUT (UP TO 4K60 4:4:4)	UP TO 50 FEET (BULLET TRAIN HDMI)
HDMI LEAD IN/OUT (W/ AOC CABLE) (UP TO 4K60 4:4:4)	UP TO 130 FEET (W/ BULLET TRAIN AOC)
BANDWIDTH	18 Gbps (w/ITC)
HDCP	HDCP 2.2 AND EARLIER

PORTS

HDMI (TX & RX)	TYPE A
HDBaseT	RJ45 W/ POH FOR HDBaseT RECEIVERS
AUDIO (EXTRACTED DIGITAL)	TOSLINK
AUDIO (EXTRACTED ANALOG)	5 PIN TERMINAL BLOCK (BALANCED)
IR RX	3.5MM STEREO (3 CONDUCTOR)
RS232	3 PIN TERMINAL BLOCK

ENVIRONMENTAL

OPERATING TEMPRATURE	23 TO 125°F (-5 TO 51°C)
STORAGE TEMPRATURE	-4 TO 140°F (-20 TO 60°C)
HUMIDITY RANGE	5-90% RH (NO CONDENSATION)

POWER

POWER CONSUMPTION (TOTAL)	38 WATTS MAX
POWER SUPPLY	INPUT: AC 100-240V ~ 50/60HZ OUTPUT: DC 12V 4A

DIMENSIONS

DIMENSIONS (UNIT ONLY HEIGHT/DEPTH/WIDTH)	MM: 173 X 114 X 22 INCH: 6.80 X 4.48 X 0.87
DIMENSIONS (PACKAGED HEIGHT/DEPTH/WIDTH)	MM: 305 X 178 X 77 INCH: 12 X 7 X 3
WEIGHT (UNIT) (TX OR RX EACH ALONE)	.9LBS (.45KG)
WEIGHT (PACKAGED)	2LBS (.90KG)

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

FULL FEATURE SET

- HDMI 2.0(a/b)
- 18Gbps Bandwidth Support (Using ICT)
- Ultra Slim (.47 inch/12mm)
- Up to 4K60 4:4:4 Support
- Full HDR Support (HDR 10 & 12 Bit)
- HDR, HDR10+ and HLG Support
- 4K → 1080P Down-scaling for mixed systems
- EDID Management and EDID emulate
- 4K & HD Test Patterns built into Tx and Rx for Troubleshooting
- L/R Audio Extraction on Tx and Rx
- HDCP 2.2 (and all earlier versions supported)
- CEC Pass Through
- 3D Support
- 70M (230ft) on 1080P (Cat6a)
- Up to 40m (131ft) on 4K (up to 4K60 4:4:4, HDR) (CAT6A)
- Bi-directional 48v PoH (Power Over HDBaseT, only one Power Supply Needed)
- I-Pass Feature for control system "pass-through"
- 3-20v protection circuit built in for safe IR transport
- Bi-Directional RS232 Transport
- LED Status, Link, Power indication lights
- Use single UTP/STP LAN cable (CAT6A) with substitute HDMI cable to achieve long distance transmission.
- Supports uncompressed PCM 2- Ch., LPCM 5.1 & 7.1, Dolby Digital, DTS, Dolby TrueHD, DTS HD-Master Audio, Atmos
- ESD protection circuitry (Inputs & Outputs) to 7KV
- Can Cascade
- ARC Support