

HE1LBIR232-E-2.0-70M

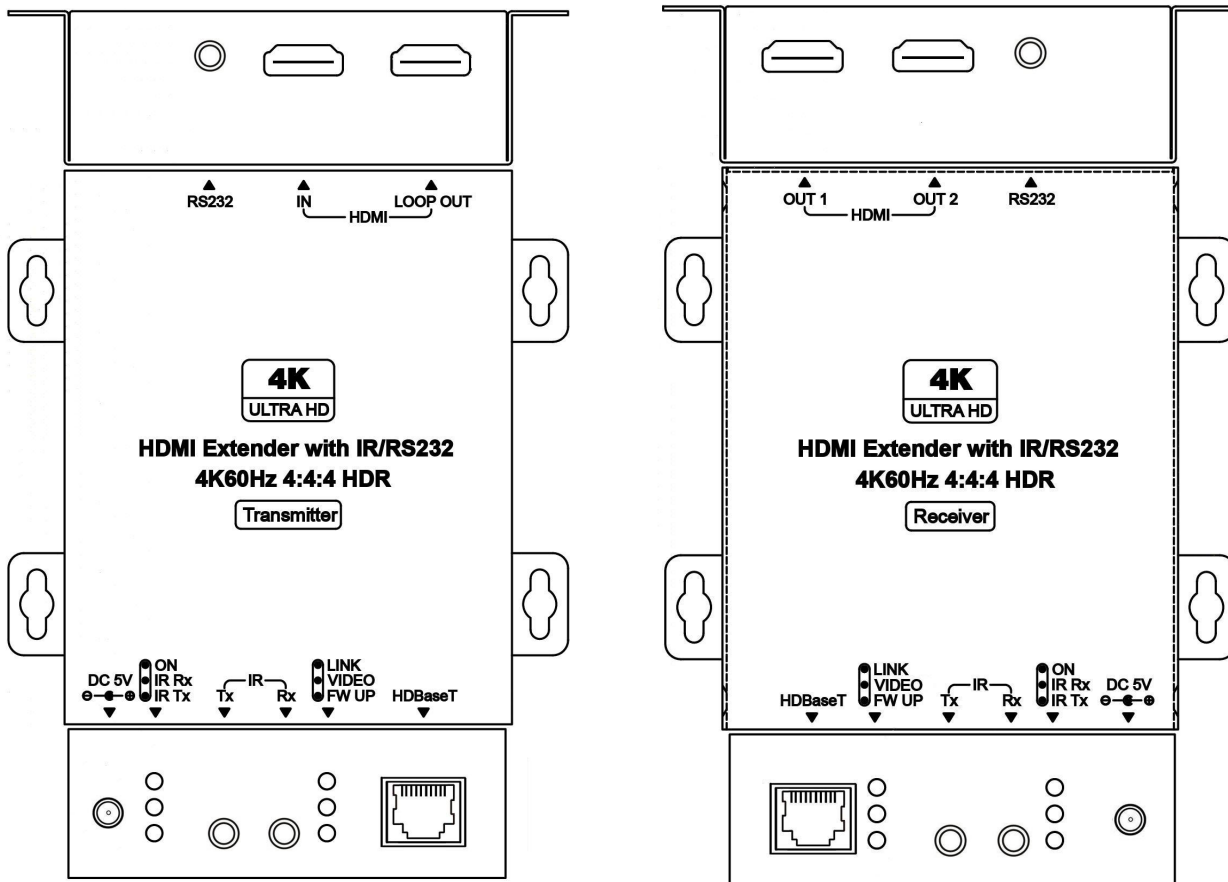
HDMI Cat5/6 Extender for UHD displays up to 30 meters (100') at 4Kx2K@60Hz UHD HDR 4:4:4

Extend high-resolution HDMI up to 70 meters (229') with this HDMI over single cat5e/cat6 extender. This extender uses HDBaseT technology to extend uncompressed high-definition video up to 4Kx2K@60hz UHD HDR 4:4:4

Features:

- Extends HDMI, RS232 and IR signal over one CAT5/6 cable
- HDBaseT 2.0, HDMI 2.0, HDCP 2.2/1.4 & DVI Compliant
- 1080p@60 up to 229' (70m), 4Kx2K@60Hz 4:4:4 up to 100' (30m) ,18Gbps
- Audio supports up to LPCM 7.1 @ 192KHz, Dolby TrueHD, DTS-HD MA, DTS:X, Atmos
- Bi-directional IR, IR carrier support 30-60khz
- Bi-Directional RS232 interface – commands and data can flow in both directions via RS232, allowing status requests and control of the destination unit.
- Bi-directional Supports CEC, EDID pass through

Panel View:



Install Notes:

Caution: The wiring must be away from any equipment with electromagnetic signal, i.e.: mobile phone, microwave, radio equipment, fluorescent lamp, and high voltage power lines.

Transmission Range: If connection is through a wall jack, (not recommended) this could limit the full transmission distance between the Transmitter and Receiver Extenders. We only recommended using a straight CAT5/6 cable with RJ45 connections on each end.

Shielded Cable: On most installations it is recommended to use Shielded CAT5/6 cable with properly connected shielded RJ45 connectors. This will prevent video and audio loss due to EMI and other interference from switched lighting and ceiling fans.

EDID pass through for HDMI transmitter input and HDMI receiver output 1 only

CEC works for HDMI transmitter input and HDMI receiver output 1 only

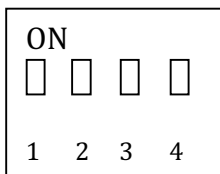
HDCP 2.2 mode if any one monitor fails then all monitors will fail. All devices must support HDCP 2.2 mode.

RJ45 Connection: Do not connect HDBaseT RJ45 port to Ethernet signal, or network devices to this port to avoid damage.

LED Status:

Color	Status	HE1BIR232-E-2.0-70M TX	HE1BIR232-E-2.0-70M RX
GREEN	LINK	ON: HDBaset Linking	
BLUE	VIDEO	ON: Input signal 4Kx2K@60Hz 4:4:4	
RED	FW UP	ON: Firmware Update	
Color	Status	HE1BIR232-E-2.0-70M TX	HE1BIR232-E-2.0-70M RX
GREEN	ON	ON: Power normal	
BLUE	IR RX	ON: Receiving IR signal	
RED	IR TX	ON: Sending IR signal	

Switch Function:



- 1. RS232 ON : Firmware Update OFF : RS232 Extension
- 2. Reserve Must keep off
- 3. Low Power Mode ON : Turn off power saving mode OFF : Turn on power saving mode
- 4. Reserved Must keep off

RS232 Defined:

DB9(M)/3.5mm STEREO PHONE JACK

RS232		3.5 mm Phone Jack	
Footprint	Define	Footprint	Define
Pin 2	RX	Pin 1	RX
Pin 3	TX	Pin 2	TX
Pin 5	GND	Pin 3	GND

DB9(F)/3.5mm STEREO PHONE JACK

RS232		3.5 mm Phone Jack	
Footprint	Define	Footprint	Define
Pin 2	TX	Pin 1	RX
Pin 3	RX	Pin 2	TX
Pin 5	GND	Pin 3	GND

RJ45 Defined:

Video Link (TIA/EIA-568-B)

1. Orange-white DATA0 +
2. Orange DATA0 -
3. Green-white DATA1 +
4. Blue DATA2 +
5. Blue-white DATA2 -
6. Green DATA1 -
7. Brown-white DATA3 +
8. Brown DATA3 -

IR Control Connections:

- Example 1: When using IR remote control at TV side, plug IR receiver into HDMI Receiver Extender and plug IR into RX meaning it will receive incoming IR commands from remote. On the source side plug IR blaster into HDMI Transmitter Extender and plug IR into TX meaning it will blast (transmit) out IR commands to source equipment.
- Example 2: In an example where you use an RF remote or other control system and it communicates back to an RF receiver and then outputs IR commands to the source equipment set up as follows. Use our adapter cable from the 3rd party IR system emitter out and go into the HDMI Transmitter Extender IR RX input. Then on the HDMI Receiver Extender by TV you plug the IR blaster included to the IR TX port. This set up allows IR coming out of your 3rd party system to go into the HDMI Transmitter located at source equipment and send IR back up to TV so IR can control it as well from the 3rd party IR remote controller. You can use the additional included cable to adapt an emitter to attach to TV if you do not want to use the included IR blaster.

If connecting to other manufacturer emitters use our IR adapter cable Model:HE1LIR35M35F-.5.

If connecting to other 3rd party IR system and coming from there system into our HDMI Transmitter IR RX input use Model: IRADAPT-60

Note: Do not place the IR blaster near or in an area that allows the signal to affect the IR receiver. This can cause interference and unreliable performance.

Package Contents:

- HE1LBIR232-E-2.0-70M Transmitter x 1
- HE1LBIR232-E-2.0-70M Receiver x 1
- Power adapter DC5V 2Amp x 2
- Mounting screw pack x 2
- IR Blaster cable x 1
- IR Receiver cable x 1
- DB9 (M) 3.5mm Stereo Phone Jack x 1
- DB9 (F) 3.5mm Stereo Phone Jack x 1
- IRADAPT-60 cable x 1
- Product Instructions

General Specifications:

Model	HE1LBIR232-E-2.0-70M-TX	HE1LBIR232-E-2.0-70M-RX
HDMI Video Support	Up to 1080p@60Hz@48bits, 3D, 4Kx2K@60Hz (YCbCr 4:4:4), 18Gbps	
HDMI Distance	1080p@60 up to 229' (70m), 4Kx2K@60Hz 4:4:4 up to 100' (30m)	
HDMI Connector	Type A	
HDMI Audio Support	Up to LPCM 7.1 192KHz, Dolby TrueHD, DTS-HD MA	
HDBaseT Connector	RJ45 x 1	
RS-232 Connector	DB9 Female / 3.5mm jack	DB9 Male / 3.5mm jack
RS-232 Baud Rate	Up to 115200 bps / Full Duplex	
IR Connector	3.5mm Phone Jack x 2	
IR Carrier	30-60KHz (2 Way)	
Power Supply	Regulated 5V 2Amp x 2	
Power Consumption	1A (Max)	1.6A (Max)
Dimensions	4.31" x 4.31" x 1.18"	
Weight lbs.	.59	.62
Humidity	Up to 95%	
Storage Temperature	-4 to 185°F	
Operating Temperature	32 to 131°F	



Do you Need Technical Support?

ZUUM is proud to offer free technical support to ensure your product is operating correctly.

If you are experiencing difficulties setting up this product, please call us for assistance 1-888-861-7351 or visit www.zuum.life

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