

# UHBX-R-48

## **HDBT™** Receiver with PoH and Control



### Features

- Extends HDMI video, RS-232, IR, and Power over one UTP (Cat6) cable
- Full-HD (1080p) signals can be extended to 150 meters, and Ultra-HD (4K) can be extended to 100 meters
- Sends power over the cable to the HDBaseT video source
- Provides over 30 watts of power to the transmitter at other side
- Extends bi-directional RS-232 (ideal for PTZ control)
- Plug-and-Play Operation

### Description

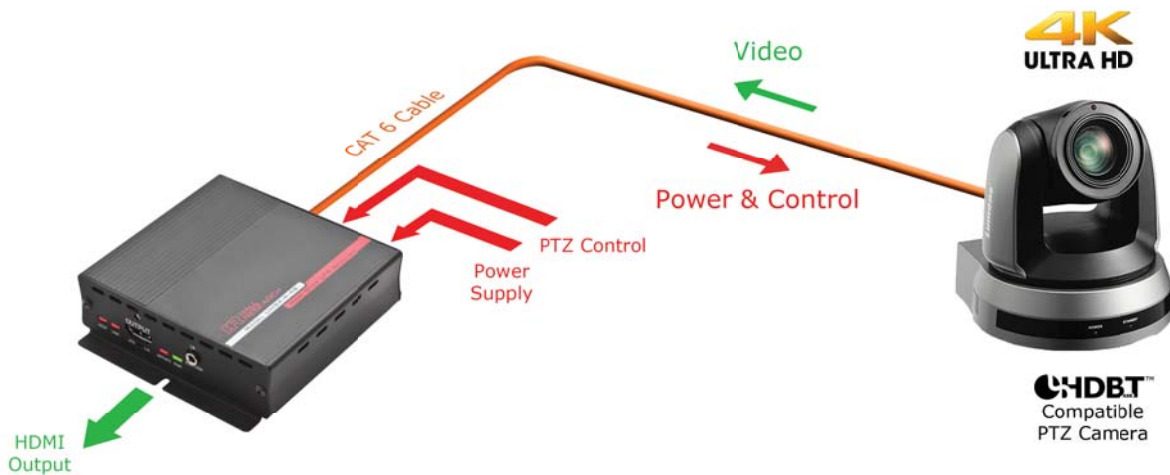
The UHBX-R-48 is a HDBaseT receiver that can power compatible HDBaseT sources over the same cable used to extend video and control signals. It is perfect for powering HD or UHD video conferencing cameras with PTZ control and eliminates the need for a power supply at the camera. The UHBX-R-48 extends HDMI video, RS-232, IR, and Power over one UTP (Cat6) cable. Full-HD (1080p) signals can be extended to 150 meters, while Ultra-HD (4K) can be extended to 100 meters.

The receiver provides over 30 watts of power to the transmitter at other side. Bi-directional RS-232 is provided for control, so if the source allows control via its HDBaseT port (such as compatible VC Cameras with PTZ), camera motion and zoom control are also extended.

IR (Infrared Remote) signals are also extended in both directions. IR detector and emitter cables are sold separately.

The Receiver incorporates a Mode Switch. Normally (as shipped) the mode is set for Standard (STD). In this mode any video signal up to 4K resolution can be extended to 100 meters. However, if the source is limited to 1080p, setting the mode to Long Reach (LR) allows Full-HD signals to be extended to 150 meters.

## Block Diagram



## Specifications

Video Standards:	DVI (single link) and HDMI (compliant with HDMI 1.4 video specifications including 12 bit color depth, 3D video)
Signal Type:	TMDS
Connectors:	Locking HDMI
Resolutions:	DVI Signal - VGA (640x480) thru WUXGA (1920x1200) HDTV Signal - 480i through 4K (UHD)
Audio Formats:	All HDMI Embedded Audio including: LPCM 7.1CH, Dolby TrueHD and DTS-HD Master Audio ( 32-192kHz sample rate)
DDC:	Pass-Thru DDC for reading EDID directly from remotely connected LCD and HDCP handshake
CEC:	Pass-Thru DDC for Consumer Electronics Control compatible devices
RS232:	Bi-directional (full-duplex) with baud rate to 115,000 bps
IR:	IR Emitter. Carrier modulation range from 30 KHz to 60 KHz
Power Supply:	100 VAC to 240 VAC, 50-60 Hz, external; 48 VDC
Power:	Uses approximately 6 watts, and can send 30 watts minimum on UTP
Temp/humidity:	Storage: -40 to +158 °F (-40 to +70 °C) / 10% to 90%, non-condensing Operating: +32 to +122 °F (0 to +50 °C) / 10% to 90%, non-condensing
Cooling:	Convection
Mounting:	End plates have L bracket with hole for surface mounting
Enclosure type:	Metal (Aluminum ends, Aluminum Extrusion)
Dimensions:	1.18" H x 4.56" W x 4.17" D (30mm H x 116mm W x 106mm D) Depth excludes connectors
Product weight:	Receiver 10 oz (0.63 lb or 284 g) Kit (shipping) 37 oz (2.3 lb or 1050 g) includes: receiver, power supply, power cord, manual, and packaging
Vibration:	ISTA 1A in carton (International Safe Transit Association)
Safety:	CE
EMI/EMC:	CE, FCC Class A
MTBF:	90,000 hours (Calculated Estimate)
Warranty:	3 years parts and labor