



# KRAMER

## TP-789R

4K60 4:2:0 HDMI HDCP 2.2 Bidirectional  
PoE Receiver with RS-232 & IR over  
Long-Reach HDBaseT

| HDMI | HDBaseT | 4K/60 UHD (4:2:0)  
| HDCP 2.2 Compatible



TP-789R is a high-performance, long-reach HDBaseT receiver for 4K60Hz (4:2:0) HDMI, RS-232 and IR signals and two-way powering over twisted pair. It extends video signals to up to 40m (130ft) over Kramer copper cables at up to 4K@60Hz (4:2:0) 24bpp video resolution and provides even further reach for lower HD video resolutions. This receiver either provides power over the copper extension cable to a POE (Power over Ethernet) acceptor device such as a PoE wall-plate, or accepts PoE through the extension cable from a PoE provider remote device, as auto-sensed by the receiver

## FEATURES

**High Performance Standard Extender** - Professional HDBaseT extender for providing long-reach signals and powering over twisted-pair copper infrastructures. TP-789R is a standard extender that can be connected to any market-available HDBaseT-compliant extension product. For optimum extension reach and performance, use recommended Kramer cables

**Bidirectional PoE (Power over Ethernet)** - Auto-senses the extension line PoE status and either provides power to a remote POE acceptor such as a PoE wall-plate, or accepts power from a remote PoE provider such as a PoE matrix

**HDMI Signal Extension** - HDMI 2.0 and HDCP 2.2 compliant. Supports deep color, x.v.Color™, lip sync, HDMI uncompressed audio channels, Dolby TrueHD, DTS-HD, 2K, 4K, and 3D. EDID and CEC signals are passed through from the source to the display

**I-EDIDPro™ Kramer Intelligent EDID Processing™** - Intelligent EDID pass-through algorithm that ensures Plug and Play operation for HDMI source and display systems

**Multi-channel Audio Extension** - Up to 32 channels of digital stereo uncompressed signals for supporting studio-grade surround sound

**Bidirectional RS-232 Extension** - Serial interface data flows in both directions, allowing data transmission and device control

**Bidirectional Infrared Extension** - IR interface data flows in both directions, allowing remote control of peripheral devices located at either end of the extended line

**Cost-Effective Maintenance** - Status LED indicators for HDMI and HDBT ports and PoE feed status facilitate easy local maintenance and troubleshooting. Local firmware upgrade via RS-232 connection ensures lasting, field-proven deployment

**Easy Installation** - Single cable connectivity for both HDBaseT signals and power. Compact DigiTOOLS® fan-less enclosure for dropped-ceiling mounting, or side-by-side mounting of 3 units in a 1U rack space with the recommended rack adapter



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## TECHNICAL SPECIFICATIONS

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Inputs	1 HDBT: On a female RJ-45 connector
Outputs	1 HDMI: On a female HDMI connector
Ports	1 IR: On a 3.5mm mini jack connector for IR link extension  1 RS-232: On a 3-pin terminal block connector for serial link extension and device firmware upgrade
Extension Line	Up to 40m (130ft) At 4k@60Hz (4:2:0)  Up to 70m (230ft) At full HD (1080p@60Hz)  Note When using Kramer HDBaseT cables  Standards Compliance HDBaseT 1.0
Video	Max Data Rate: 10.2Gbps (3.4Gbps per graphic channel)  Max Resolution: 4K@60Hz (4:2:0) 24bpp resolution  Standards Compliance: HDMI 2.0 and HDCP 2.2
Extended RS-232:	300 to 115200 baud rate
Extended Bidirectional IR:	20kHz to 100kHz frequency
User Interface	Indicators IN, OUT, LINK, PoE FEEDER and ON LED indicators  Controls DIP-switches
Power	Source: 48V DC, 1.36A  PoE Acceptor and Provider  Consumption: 350mA
Environmental Conditions	Operating Temperature: 0° to +40°C (32° to 104°F)  Storage Temperature: -40° to +70°C (-40° to 158°F)  Humidity: 10% to 90%, RHL non-condensing
STANDARDS COMPLIANCE	Safety: CE  Environmental: RoHs, WEEE
Enclosure	Size: Tool  Type: Aluminum  Cooling: Convection ventilation
Accessories	Included: Power adapter, bracket set
PRODUCT DIMENSION:	12.00cm x 7.15cm x 2.44cm (4.72" x 2.81" x 0.96" ) W, D, H
PRODUCT WEIGHT:	0.2kg (0.5lbs) approx
SHIPPING DIMENSION:	15.70cm x 12.00cm x 8.70cm (6.18" x 4.72" x 3.43" ) W, D, H
SHIPPING WEIGHT:	0.7kg (1.5lbs) approx

