



## TP-580RA

4K60 4:2:0 HDMI Receiver with RS-232, IR  
& Stereo Audio De-embedding over  
Long-Reach HDBaseT

| HDCP Compliant | HDBaseT



TP-580RA is a high-performance, long-reach HDBaseT receiver for 4K@60Hz (4:2:0) HDMI, RS-232, IR and stereo audio signals over twisted pair that de-embeds the stereo audio signal on its digital and analog audio ports. It extends video signals to up to 40m (130ft) over CAT copper cables at up to 4K@60Hz (4:2:0) 24bpp video resolution and provides even further reach for lower HD video resolutions

### FEATURES

**High Performance Standard Extender** - Professional HDBaseT extender for providing long-reach signals over twisted-pair copper infrastructures. TP-580RA 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

**HDMI Signal Extension** - HDCP 1.4 compliant. Supports deep color, x.v.Color™, lip sync, HDMI uncompressed audio channels, Dolby TrueHD, DTS-HD, 2K, 4K, and 3D as specified in HDMI 2.0. EDID and CEC signals are passed through from the source to the display

**I-EDIDPro™ Kramer Intelligent EDID Processing™** - Intelligent EDID handling, processing and pass-through algorithm that ensure 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

**Audio De-embedding (Extraction)** - According to auto-sensed signal attributes and per user selection, the transmitted digital audio signal is de-embedded or the Audio Return Channel (ARC) signal is extracted from the AV signal. This signal is transmitted to a stereo, digital audio output, and concurrently converted to an analog signal for transmission to un-balanced stereo analog audio output, in parallel to being transmitted to the HDMI AV output. This enables high-quality audio playback by routing the audio to external speakers in parallel to routing the audio to the local speakers found on the connected AV acceptor device (such as a TV or laptop)

**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 facilitate easy local maintenance and troubleshooting. Local firmware upgrade via RS-232 connection ensures lasting, field-proven deployment

**Easy Installation** - 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



## TECHNICAL SPECIFICATIONS

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Inputs	1 HDBT On an RJ-45 female connector
Outputs	1 HDMI On a female HDMI connector 1 Unbalanced Stereo Audio On a 3.5mm mini jack 1 S/PDIF On an RCA connector
Ports	1 IR On a 3.5mm mini jack for IR link extension 1 RS-232 On a 3-pin terminal block connector for serial link extension and device firmware upgrade
Extension Line	Compliance HDBaseT 1.0 Up to 40m (130ft) At 4K@60Hz (4:2:0) (When using Kramer HDBaseT cables) Up to 70m (230ft) At full HD (1080p@60Hz 36bpp) (When using Kramer HDBaseT cables)
Video	Max. Data Rate 10.2Gbps (3.4Gbps per graphic channel) Max. Supported Resolution 4K@60Hz (4:2:0) 24bpp Standards Compliance HDCP 1.4 HDMI Support Deep color, x.v.Color™, lip sync, HDMI uncompressed audio channels, Dolby TrueHD, DTS-HD, 2K, 4K, and 3D as specified in HDMI 2.0
Analog Audio	Level Up to 1 Vrms THD + NOISE 0.03% @ 1 KHz at nominal level
Extended RS-232	Baud Rate 300 to 115200
Control RS-232	Baud Rate 115200
Enclosure	Size DigiTools Type Aluminum Cooling Convection ventilation
Power	Source 12V DC Consumption 570mA
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
Accessories	Included Power supply unit
Product Dimensions	12.00cm x 7.15cm x 2.44cm (4.72" x 2.81" x 0.96" ) W, D, H
Product Weight	0.3kg (0.6lbs) approx
Shipping Dimensions	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



