



KRAMER

TP-580RA

4K60 4:2:0 HDMI Receiver with RS232, IR & Stereo Audio Extraction over LongReach HDBaseT

| HDCP Compliant | HDBaseT



TP580RA is a highperformance, longreach HDBaseT receiver for 4K@60Hz (4:2:0) HDMI, RS232, IR and stereo audio signals over twisted pair that deembeds 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 longreach signals over twistedpair copper infrastructures. TP580RA is a standard extender that can be connected to any marketavailable HDBaseTcompliant extension product. For optimum extension reach and performance, use recommended Kramer cables

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

IEDIDPro™ Kramer Intelligent EDID Processing™ - Intelligent EDID handling, processing and passthrough algorithm that ensure Plug and Play operation for HDMI source and display systems

Multichannel Audio Extension - Up to 32 channels of digital stereo uncompressed signals for supporting studiograde surround sound

Audio De-embedding - According to autosensed signal attributes and per user selection, the transmitted digital audio signal or Audio Return Channel (ARC) signal, is extracted from the AV signal. This signal is transmitted to stereo digital audio output, and concurrently converted to an analog signal for transmission to balanced stereo analog audio output, in parallel to being transmitted to the HDMI AV output. This enables highquality audio playback by routing the audio to external speakers in parallel to routing the audio to the connected AV acceptor device's local speakers (such as TVs with speakers)

Bidirectional RS232 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 RS232 connection and the KUpload tool ensures lasting, fieldproven deployment

Easy Installation - Compact DigiTOOLS™ fanless enclosure for droppedceiling mounting, or sidebyside mounting of 3 units in a 1U rack space with the optional RK3T rack adapter



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TECHNICAL SPECIFICATIONS

1 HDBT	On an RJ45 female connector
1 HDMI	On a female HDMI connector
1 Unbalanced Stereo Audio	On a 3.5mm mini jack
1 S/PDIF	On an RCA connector
1 IR	On a 3.5mm mini jack for IR link extension
1 RS232	On a 3pin terminal block connector for serial link extension and device firmware upgrade
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)
Max. Data Rate	10.2Gbps (3.4Gbps per graphic channel)
PRODUCT DIMENSION:	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 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
Max. Supported Resolution	4K@60Hz (4:2:0) 24bpp
Standards Compliance	HDMI 2.0 and HDCP 1.4
Level	Up to 1 Vrms
THD + NOISE	0.03% @ 1 KHz at nominal level
Baud Rate	300 to 115200
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Size	DigiTools
Type	Aluminium
Cooling	Convection ventilation
Source	12V DC
Consumption	570mA
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 noncondensing
Included	Power supply unit
Optional	RK3T rack adapter

