TP-580RA

4K60 4:2:0 HDMI Receiver with RS-232, IR & Stereo Audio Extraction 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 - HDMI 2.0 and HDCP 1.4 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 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 - According to auto-sensed 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 high-quality 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 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 and the K-Upload tool 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 optional RK-3T rack adapter

TECHNICAL SPECIFICATIONS

1 HDBT	On an RJ-45 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 RS-232	On a 3-pin 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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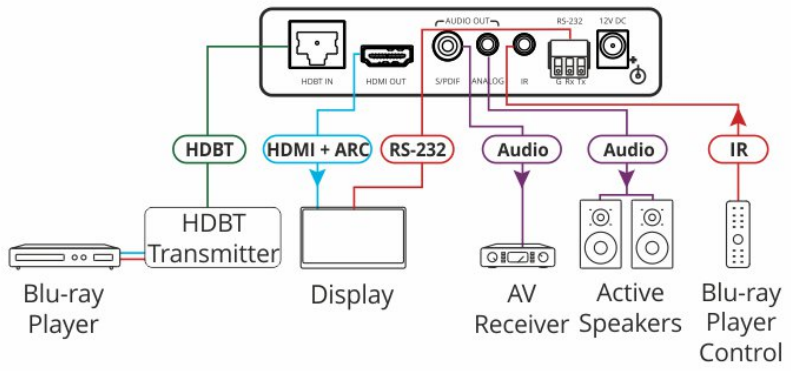
Size	DigiTools
Type	Aluminium
Cooling	Convection ventilation
Source	12V DC
Consumption	570mA
Operating Temperarture	0° to 40°C (32° to 104°F)
Storage Temperature	-40° to +70°C (-40° to 158°F)
Humidity	10% to 90%, RHL non-condensing
Included	Power supply unit
Optional	RK-3T rack adapter


AUDIO OUT
RS-232
12V DC
HDBT IN
HDMI OUT
S/PDIF
ANALOG
IR
G Rx Tx
HDBT
HDMI + ARC
RS-232
Audio
Audio
IR
HDBT Transmitter
Blu-ray Player
Display
AV Receiver
Active Speakers
Blu-ray Player Control