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 Extraction (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 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

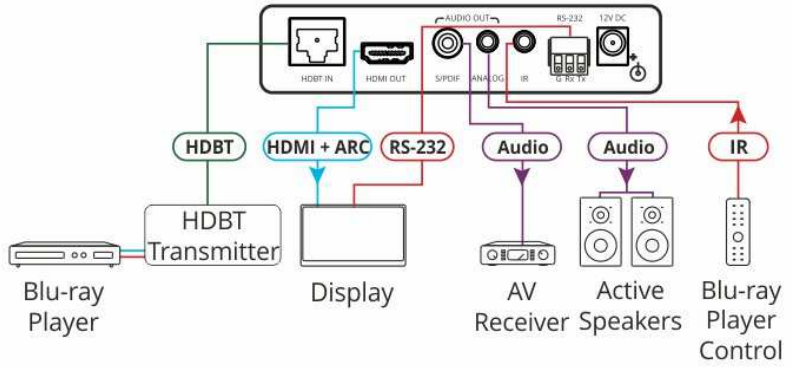
Cost-effective Maintenance - Status LED indicators for HDMI and HDBT ports facilitate easy local maintenance and troubleshooting. Local firmware upgrade via RS-232 connection ensures lasting, field-proven deployment

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

KRAMER

TECHNICAL SPECIFICATIONS

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 HDMI 2.0 and HDCP 1.4
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)


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