TP–580R is a high-performance, long-reach HDBaseT receiver for 4K60Hz (4:2:0) HDMI, RS–232 and IR signals over twisted pair. 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–580R 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 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 handling, processing and 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 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

**INPUTS:**
- 1 HDBT on an RJ-45 female connector.

**OUTPUTS:**
- 1 HDMI on an HDMI connector.

**PORTS:**
- 1 IR on a 3.5mm mini jack for IR link extension,
- 1 RS-232 on a 9-pin D-sub connector for serial link extension and device firmware upgrade.

**EXTENSION LINE:**
- HDBaseT 1.0 compliant;
- Up to 40m (130ft) at 4K @60Hz (4:2:0);
- up to 70m (230ft) at full HD (1080p @60Hz 36bpp);
- Note: When using Kramer HDBaseT cables.

**VIDEO:**
- Up to 10.2Gbps bandwidth (3.4Gbps per graphic channel)
- Up to 4K UHD @60Hz (4:2:0) 24bpp resolution
- HDMI 2.0 and HDCP 2.2 signal compliance

**EXTENDED RS-232:**
- 300 to 115200 baud rate.

**CONTROL RS-232:**
- 115200 baud rate.

**POWER SOURCE:**
- 12V DC, 2A.

**POWER CONSUMPTION:**
- 12V DC, 430mA.

**ENCLOSURE:**
- Tools size, Aluminium type.

**COOLING:**
- Convection ventilation.

**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.

**INCLUDED ACCESSORIES:**
- Power supply unit.

**OPTIONAL ACCESSORIES:**
- RK-3T rack adapter.

**PRODUCT DIMENSIONS:**
- 12.00cm x 7.15cm x 2.44cm (4.72" x 2.81" x 0.96") W, D, H

**PRODUCT WEIGHT:**
- 0.2kg (0.4lbs) 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 (1.6lbs) approx.