



# KRAMER

## TP-580Txr

4K60 4:2:0 HDMI HDCP 2.2 Transmitter with RS-232 & IR over Extended-Reach HDBaseT



TP-580Txr is a high-performance, extended-reach HDBaseT transmitter for 4K60Hz (4:2:0) HDMI, RS-232 and IR signals over twisted pair. The TP-580Txr converts all input signals into the transmitted HDBaseT signal. It extends video signals to up to 100m (330ft) 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 extended-reach signals over twisted-pair copper infrastructures. TP-580Txr 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 signal. 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 HDMI on an HDMI connector.
OUTPUTS:	1 HDBT on an RJ-45 female 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 100m (330ft) at 4K @60Hz (4:2:0); up to 130m (430ft) at full HD (1080p @60Hz 36bpp); up to 180m (590ft) at HDBaseT ultra mode and full HD (1080p @60Hz 24bpp); 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, 295mA.
ENCLOSURE:	DigiTools 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.
COOLING:	Convection ventilation.
INCLUDED ACCESSORIES:	Power supply.
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.

