PT-871xr
4K HDR HDMI Compact PoC Transmitter over Long-Reach DGKat 2.0

PT-871xr is a high-performance, long-reach DGKat™ 2.0 transmitter for 4K@60Hz (4:4:4) HDR HDMI 2.0 and HDCP 2.2 signals and 2-way powering over twisted pair. It converts the HDMI signal into the transmitted DGKat™ 2.0 signal. PT-871xr extends the signal to up to 60m (200ft) at 4K@60Hz (4:4:4) resolution and up to 70m (230ft) at 4K@30Hz (4:4:4) 24bpp resolution over Kramer shielded cables. NOTE: To reach the distances listed, Kramer UNIKAT non-plenum bulk cable or pre-made assemblies MUST be used.

FEATURES

High Performance Extender - Professional DGKat™ 2.0 transmitter for providing long-reach signals and 2-way power over twisted pair copper infrastructures. PT-871xr employs low-level video compression technology that delivers visually lossless performance for 4K@60Hz (4:4:4) HDR signals with near-zero latency.


EDID Pass-through - Pass-through algorithm 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.

Cost-effective Maintenance - Status LED indicators for HDMI and DGKat™ 2.0 ports facilitate easy local maintenance and troubleshooting.

Easy Installation - Single twisted-pair cable for signal and power wiring. Compact PicoTOOLS® fan-less enclosure for device-back mounting, or side-by-side mounting of 4 units in a 1U rack space with the optional, compatible Kramer rack adapter.
# TECHNICAL SPECIFICATIONS

## Inputs
1 HDMI: On an HDMI female connector

## Outputs
1 DGKat: On an RJ–45 female connector for extension line

## Video
- Transmitted Data Bandwidth: Up to 18Gbps (6Gbps per graphic channel)
- Max Resolution at High Compression Level: 3840x2160@60Hz (4:4:4) 24bpp
- Max Resolution at Standard Compression Level: 4096x2160@60Hz (4:4:4) 24bpp
- Standards Compliance: HDR10, HDCP 2.2

## High Compression Reach Extension
- Using Shielded UNIKAT Cables: Up to 60m (200ft) at 4K@60Hz (4:4:4), Up to 70m (230ft) at 4K@30Hz (4:4:4) or full HD (1080p @60Hz 36bpp)
- Using Plenum HDKat Cables: Up to 40m (130ft) at 4K@60Hz (4:4:4), Up to 50m (160ft) at 4K@60Hz (4:2:0) or full HD (1080p @60Hz 36bpp)

## Standard Compression Reach Extension
- Using Shielded UNIKAT Cables: Up to 40m (130ft) at 4K@60Hz (4:4:4), Up to 70m (230ft) at 4K@30Hz (4:4:4) or full HD (1080p @60Hz 36bpp)

## Extension Line
- Signal Compression: Standard or high compression level applied to >1080p signals
- Compliance: DGKat 2.0

## User Interface
- Indicators: IN, OUT, and ON LEDs
- Controls: Dip switches to define compression level

## Power
- Source: 12V DC, 2A
- Consumption: 600mA

## Environmental Conditions
- 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

## Enclosure
- Size: PicoTOOLS®
- Type: Aluminum
- Cooling: Convection ventilation

## Accessories
- Included: 1 power adapter with cord, 1 bracket set

## REGULATORY
- Safety: CE, UL
- Environmental: RoHs, WEEE