PT-871xr

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

| HDMI

PT-871xr is a high-performance, long-reach DGKat™ 2.0 transmitter for 4K@60Hz (4:4:4) HDR, HDMI, HDCP 2.2 signals and 2-way PoC 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

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

HDMI Signal Extension - Supports HDR, HDCP 2.2, deep color, x.v.Color™, lip sync, HDMI uncompressed audio channels, Dolby TrueHD, DTS-HD, 2K, 4K, and 3D as specified in HDMI 2.0

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
Product Dimensions	6.22cm x 5.18cm x 2.44cm (2.45" x 2.04" x 0.96") W, D, H
Product Weight	0.1kg (0.2lbs) approx
Shipping Dimensions	49.00cm x 18.60cm x 58.80cm (19.29" x 7.32" x 23.15") W, D, H
Shipping Weight	0.4kg (0.8lbs) approx

HDMI IN

IN OUT ON

HDMI 4K Line Transmitter   PT-871xr

SETUP

DGKAT2 OUT   12V DC

SETUP

DGKAT2 IN   12V DC

HDMI OUT

IN OUT ON

HDMI 4K Line Receiver   PT-872xr

HDMI

Power

HDMI

4K Blu-ray Player

Power Supply

4K Display