TP-874xr

4K HDR HDMI PoC Receiver with RS-232 &
IR over Long-Reach DGKat 2.0

| HDMI | DGKat | 4K/60 UHD (4:4:4)

TP-874xr is a high-performance, long-reach DGKat™ 2.0 receiver for 4K@60Hz (4:4:4) HDR HDMI HDCP 2.2 signals, RS-232 and IR signals and 2-way powering over twisted pair. It converts the transmitted DGKat™ 2.0 signal into an HDMI, RS-232 and IR signals. TP-874xr extends the signal to up to 50m (160ft) 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 receiver for providing long-reach signals and 2-way power over twisted pair copper infrastructures. TP-874xr employs low-level video compression technology that delivers visually lossless performance for 4K@60Hz (4:4:4) HDR signals with near-zero latency. It converts the transmitted DGKat™ 2.0 signal into an HDMI signal

HDMI Signal Extension - HDR, HDCP 2.2 compliant. Supports 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

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 DGKat™ 2.0 ports facilitate easy local and remote maintenance and troubleshooting

Easy Installation - Single twisted-pair cable for signal and power wiring. Compact DigiTOOLS® fan-less enclosure for device-back mounting, or side-by-side mounting of 3 units in a 1U rack space with the recommended Kramer rack adapter

KRAMER

TECHNICAL SPECIFICATIONS

Inputs	1 DGKat 2.0 On an RJ−45 female connector
Outputs	1 HDMI On an HDMI female connector
Ports	1 RS−232 On a 3−pin terminal block connector
	1 IR On a 3.5mm mini jack connector
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
	HDMI Support 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
High Compression Reach Extension	Using Shielded UNIKAT Cables Up to 50m (160ft) 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 35m (110ft) 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: (connected to power and providing power to a transmitter) 0.87A
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 DigiTOOLS
	Type Aluminum
	Cooling Convection ventilation
Accessories	Included 1 power adapter with cord, 1 bracket set
REGULATORY	Safety CE, UL
	Environmental RoHs, WEEE
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 (0.5lbs) 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 (1.5lbs) approx

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HDMI IN — DGKAT-2 OUT — SETUP 1 2 3 4 — RS-232 — IR — RS-232 G Rx Tx — 12V DC

DGKat 2.0 — **PoC ▶**

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HDMI OUT — DGKAT-2 IN — SETUP 1 2 3 4 — IR — RS-232 G Rx Tx — 12V DC

HDMI

IR

RS-232

Power

4K Blu-ray
Player

Display
Remote
Control

SL-240C
with Kramer
Control

Power
Supply

HDMI

IR

RS-232

4K Display