TP-874xr
4K HDR HDMI PoC Receiver with RS−232 & IR over Long−Reach DGKat 2.0

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.


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.
## TECHNICAL SPECIFICATIONS

<table>
<thead>
<tr>
<th>Inputs</th>
<th>1 DGKat 2.0 On an RJ−45 female connector</th>
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<tbody>
<tr>
<td>Outputs</td>
<td>1 HDMI On an HDMI female connector</td>
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<td>Ports</td>
<td>1 RS−232 On a 3−pin terminal block connector</td>
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<td></td>
<td>1 IR On a 3.5mm mini jack connector</td>
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<td>Video</td>
<td>Transmitted Data Bandwidth: Up to 18Gbps (6Gbps per graphic channel)</td>
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<td>Max Resolution at High Compression Level 3840x2160@60Hz (4:4:4) 24bpp</td>
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<td></td>
<td>Max Resolution at Standard Compression Level 4096x2160@60Hz (4:4:4) 24bpp</td>
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<td>Standards Compliance: HDR10, HDCP 2.2</td>
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<td>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</td>
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### 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