WP-871xr is a high-performance, long-reach DGKat™ 2.0 wall-plate transmitter for 4K@60Hz (4:4:4) HDR HDMI and HDCP 2.2 signals and power over twisted pair. It converts the HDMI input signal into a DGKat™ 2.0 signal and transmits it to a compatible receiver. WP-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. This wall-plate is powered through PoC (Power over Copper) over the twisted pair cable.

**FEATURES**

**High Performance Transmitter** - Professional DGKat™ 2.0 transmitter for providing long-reach signals over twisted pair copper infrastructures. WP-871xr transmitter employs high-level video compression technology that delivers visually lossless performance for 4K@60Hz (4:4:4) HDR signals with near-zero latency. It converts the HDMI input signal into a DGKat™ 2.0 signal and transmits it to a compatible receiver.


**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** - Power and connectivity status LED indicator facilitates easy local maintenance and troubleshooting.

**Easy Installation** - Compactly fits into standard US, EU and UK 1-gang in-wall box size, supporting decorative integration with room deployed user interfaces such as electrical switches. Wall-plate installation is fast and cost-effective via a single twisted pair cable, providing both video signal and power (PoC) connections.
## TECHNICAL SPECIFICATIONS

### Inputs
1 HDMI: On an HDMI female connector

### Outputs
1 DGKat: On an RJ−45 female connector

### Video
- **Max Data Rate:** 18Gbps (6Gbps per graphic channel)
- **Max Resolution:** 3840x2160@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 60m (200ft) 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:** High compression level applied to >1080p signals
- **Compliance:** DGKat 2.0

### User Interface
- **Indicator:** Power/connection
- **Controls:** Dip−switches to define compression setup

### 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:** 1−gang
- **Type:** Aluminum
- **Cooling:** Convection ventilation

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

### STANDARDS COMPLIANCE
- **Safety:** CE, UL
- **Environmental:** RoHs, WEEE

### Product Dimensions
- **EU:** 8.00cm x 3.10cm x 8.00cm (3.15" x 1.22" x 3.15") W, D, H
- **UK:** 8.60cm x 3.10cm x 8.60cm (3.39" x 1.22" x 3.39") W, D, H
- **US:** 6.98cm x 3.10cm x 11.43cm (2.75" x 1.22" x 4.50") W, D, H

### Product Weight
- **EU:** 0.1kg (0.1lbs) approx
- **UK:** 0.1kg (0.1lbs) approx
- **US:** 0.1kg (0.1lbs) approx

### Shipping Dimensions
- **EU:** 23.20cm x 13.60cm x 10.00cm (9.13" x 5.35" x 3.94") W, D, H
- **UK:** 23.20cm x 13.60cm x 10.00cm (9.13" x 5.35" x 3.94") W, D, H
- **US:** 23.20cm x 13.60cm x 10.00cm (9.13" x 5.35" x 3.94") W, D, H

### Shipping Weight
- **EU:** 0.6kg (1.3lbs) approx
- **UK:** 0.6kg (1.3lbs) approx
US: 0.6kg (1.2lbs) approx
CONFIGURATIONS

WP-871XR/US(W/B)  US-D-size Wall-Plate Transmitter, with White & Black Decora® Design Frame Sets

![Diagram of WP-871XR system configuration](image-url)