VP-427X
4K Auto-Switcher/Scaler Receiver over Long-Reach HDBaseT

VP-427X is a high-performance auto-switcher/scaler receiver for 4K HDMI™ over long-reach HDBaseT and a local HDMI input. VP-427X receives the HDBaseT signal from a compatible transmitter, converts it to HDMI and up- or down-scales the picture to any resolution up to 4K@60HZ (4:4:4) set by the user or automatically matching the resolution of the HDMI monitor. VP-427X enables extending video signals to up to 40m (130ft) over CAT copper cables at up to 4K@60Hz (4:2:0) 24bpp video resolution and provides even further reach for lower HD video resolutions.

FEATURES

- **HDMI Signal Extension** - HDCP 1.4 / 2.2, 4K60, CEC, xvYCC color (on input)
- **Audio De-embedding** - Output the HDMI audio to a balanced stereo output
- **Bidirectional RS-232 Extension** - Serial interface data flows in both directions, allowing data transmission and device control
  - Includes relay outputs and easy connection to occupancy sensors and contact closure switches
- **I-EDIDPro™ Kramer Intelligent EDID Processing™** - Intelligent EDID handling, processing and pass-through algorithm that ensures Plug and Play operation
  - ProcAmp Control — Contrast, brightness, color, etc
  - Freeze button
- **Convenient Unit Control and Configuration Options** - Local control via front panel source switching buttons and OSD menu. Distance control via RS-232 serial commands transmitted by a PC, touch screen system or other serial controller and relay switches
- **Easy, Cost-effective Maintenance** - Local firmware upgrade via USB connector
- **Easy and Elegant Installation** - Compact MegaTOOLS™ fan-less enclosure for dropped-ceiling mounting, or side-by-side mounting of 2 units in a 1U rack space with the recommended rack adapter
## TECHNICAL SPECIFICATIONS

### Inputs
- 1 HDBaseT On an RJ−45 connector
- 1 HDMI On a female HDMI connector

### Outputs
- 1 HDMI On a female HDMI connector
- 1 Balanced Audio On a 5−pin terminal block connector

### Ports
- 1 Control RS−232 On a 3−pin terminal block connector
- 1 Data RS−232 On a 3−pin terminal block connector
- 1 Remote Contact−Closure On a 4 pin terminal block connector
- 1 Relay On a 3−pin terminal block connector
- 1 Program USB On a USB−A connector for firmware upgrade

### Video
- Max Data Rate (on the HDMI ports) 18Gbps
- Max Resolution (on HDMI ports) 4K@60Hz (4:4:4)
- HDMI Support: 4K60, CEC, xvYCC color
- Content Protection: HDCP 1.4 and 2.2
- Output Resolutions 640x480@60Hz, 800x600@60Hz, 1024x768@60Hz, 1280x720@60Hz, 1280x800@60Hz, 1280x1024@60Hz, 1360x768@60Hz, 1400x1050@60Hz, 1440x900@60Hz, 1600x1200@60Hz, 1680x1050@60Hz, 1920x1080@60Hz RB, 2560x1600@60Hz RB, 1920x1080@60Hz, 1280x720@60Hz, 2048x1080@50/60Hz, 2560x1440@60Hz RB, 720x480p@60Hz, 720x576p@50Hz, 1280x720p@50/60Hz, 1920x1080p@24/25/30/50/60Hz, 2560x1080p@50/60Hz, 2K@24/25/30/50/60Hz, 4K@24/25/30/50/60Hz

### Extension Line
- Up to 40m (130ft): At 4K@60Hz (4:2:0)
- Up to 70m (230ft) At full HD (1080p@60Hz)

### Extended RS-232
- Baud Rate 300 to 115200

### Power
- Source: PoE or 12V DC Adapter
- Consumption 1A

### User Interface
- Control Input selection buttons, remote contact−closure switches, relay switches.
- Kramer API via RS−232 serial commands transmitted by a PC, touch screen system or other serial controller, embedded web pages via LAN for configuration and control
- Indicators Power, link, input selection LEDs

### 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: MegaTOOLS®
- Type: Aluminum
- Cooling: Convection ventilation

### STANDARDS COMPLIANCE
- Safety CE
- Environmental FCC, UL
Accessories: Included: Power adapter, rubber feet, bracket set

Product Dimensions: 18.75cm x 14.50cm x 2.54cm (7.38" x 5.71" x 1.00") W, D, H

Product Weight: 0.9kg (1.9lbs) approx

Shipping Dimensions: 35.10cm x 21.20cm x 7.20cm (13.82" x 8.35" x 2.83") W, D, H

Shipping Weight: 1.4kg (3.1lbs) approx