VP-428H2
DisplayPort, HDMI & VGA Auto Switcher/Scaler and PoE Provider over HDBaseT with 4K60 4:4:4 HDCP 2.2 Input Support

VP-428H2 is an HDBaseT 4K transmitter/scaler with HDMI, DP and VGA inputs. VP-428H2 supports HDBaseT tunneling of Ethernet, bidirectional RS-232 and IR signals, as well as PoE to provide power to the HDBaseT receiver. It receives the selected AV signal, up-scales, down scales or bypasses the video, according to the settings selected by the user, and converts it for sending via HDBaseT, together with the tunneled data and PoE.

FEATURES

- **PixPerfect™ Scaling Technology** - Kramer's precision pixel mapping and high-quality scaling technology
- **HDMI Support** - HDCP 2.2 Compliant. 4K60, CEC, xvYCC color (on input), Dolby TrueHD/DTS-HD Master Audio as specified in HDMI 2.0
- **HDBaseT Certified**
- **System Range** - For the HDBaseT output, extended reach of up to 100m (330ft) using Kramer recommended cables
- **Provides Power (PoE) on HDBaseT Output to Compatible Devices**
- **Max. Resolutions** - Input: 4K@60Hz (4:4:4); Output: 4K@60Hz (4:2:0)
- **Max. VGA Resolution** - 1920 x 1200 @60Hz
- **Built-in ProcAmp** - Color, hue, sharpness, noise, contrast and brightness are set individually for each input
- **Constant Output Sync** - No output disruption while switching between inputs when no video is detected
- **Audio** - Unbalanced stereo and embedded audio
- **Auto Input Switching** - Last connected & auto-scan, selectable
- **HDBaseT Tunneling** - Supports full HDBaseT tunneling of Ethernet and RS-232 data
- **Non-Volatile Memory** - Saves final settings
- **Flexible Control Options** - Front panel push buttons, RS-232, OSD (on-screen display) menu with front panel navigation buttons
## TECHNICAL SPECIFICATIONS

### Inputs
- 1 DP On a Display Port connector
- 1 HDMI On a female HDMI connector
- 1 PC On a 15-pin HD connector
- 1 Stereo Analog Unbalanced Audio On a 3.5mm mini jack
- 1 IR On a 3.5mm mini jack

### Outputs
- HDBaseT On an RJ-45 port
- 1 IR On a 3.5mm mini jack

### Ports
- 1 Ethernet On an RJ-45 female connector for port tunneling
- 1 USB On a female USB-A connector
- 1 DATA RS-232 On a 3-pin terminal block for serial link extension
- 1 CTRL RS-232 On a 3-pin terminal block for device control

### Video
- Max Data Rate 10.2Gbps (3.4Gbps per graphic channel)
- Max. Input Resolution 4K@60Hz (4:4:4)
- Max. Output Resolution 4K@60Hz (4:2:0)
- Standards Compliance Support HDCP 2.2 and DP 1.2A. Supports 4K60, CEC, xyYCC color (on input), Dolby TureHD/DTS-HD Master Audio as specified in HDMI 2.0
- Switching Time Between Inputs 2 to 3 seconds
- Video Latency 2 to 3 frames

#### Input Resolutions
- 640x350@60/70/75Hz, 640x400@70/85Hz, 640x480@57/60/66/69/72/75/76/78/85Hz, 720x400@70/85Hz, 720x480@60i/60p/60Hz, 720x576@50i/50p/60Hz, 800x600@56/60/72/75/85Hz, 832x624@75Hz, 848x480@59/60Hz, 864x648@60Hz, 1024x768@43i/60/70/75/85Hz, 1152x864@60/70/75/85Hz, 1152x870@60/70/75Hz, 1280x720@25p/30p/50p/60p/75Hz, 1280x768@50/60i/60p/60Hz (RB)/60/70/75/85Hz, 1280x800@59/60/75/85Hz, 1280x960@60/75/85Hz.
- 1280x1024@59/60/60Hz, 1360x768@60Hz, 1366x768@60Hz, 1400x1050@59/60/75Hz, 1440x900@60 (RB)/60/75/85Hz, 1600x900@60 (RB)/60/75/85Hz, 1600x1024@60/75Hz, 1600x1200@51/59/65/70/75Hz, 1680x1050@59/60/75Hz, 1920x1200@59/60/65/75Hz, 1920x1080@50/60i/60p/60Hz, 1920X1080@30p/50p/60p/60Hz, 1920X1080@24/25/30/60p/60Hz, 1920X1080@50/60i/60p/60Hz, 1920X1080@50/60i/60p/60Hz, 2160x1920@24/25/30/50/60p/60Hz, 2160x1920@24/25/30/50p/60p/60Hz, 3840x2160@24/25/30/50/60p/60Hz, 4096x2160@24/25/30/50/60p/60Hz, 4K@24/25/30/50/60Hz, 4K2K(4:2:0)@50/60Hz

#### Output Resolutions
- Native, 640x480@60Hz, 720x480P@60Hz, 720x576P@50Hz, 800x600@60Hz, 1024x768@60Hz, 1280x720@60Hz, 1280x768@60Hz, 1280x800@60Hz, 1280x1024@60Hz, 1360x768@60Hz, 1400x1050@60Hz, 1440x900@60Hz, 1600x1200@60Hz, 1680x1050@60Hz, 1920x1080@60Hz, 1920x1200@60Hz, 1280x720P@50/60Hz, 1920x1080P@24/25/30/50/60Hz, 4K@24/25/30/50/60Hz, 4K2K(4:2:0)@50/60Hz

### Power
- Source 48V DC, 1.36A
- Consumption 48V DC, 410mA

### Enclosure
- Type Aluminum

### 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

Accessories:
- Included Power supply

Product Dimensions:
- 18.75cm x 11.50cm x 2.54cm (7.38" x 4.53" x 1.00") W, D, H
- 22.30cm x 20.50cm x 2.50cm (8.78" x 8.07" x 0.98") 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
- 35.10cm x 21.20cm x 7.20cm (13.82" x 8.35" x 2.83") W, D, H

Shipping Weight:
- 1.4kg (3.2lbs) approx