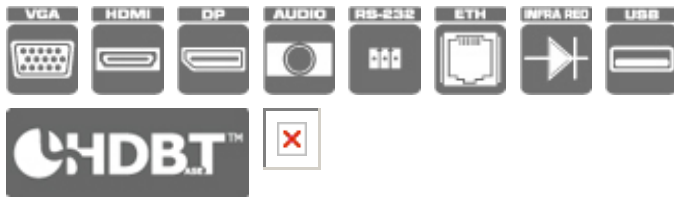




VP-428H2

4K60 4:4:4 HDCP 2.2 DisplayPort, HDMI & VGA Auto Switcher/Scaler and PoE Provider over HDBaseT



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 2.0 Compliant.
- HDCP 2.2 Compliant.
- 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 | HDMI 2.0 and HDCP 2.2 |
| SWITCHING TIME BETWEEN INPUTS | 2 to 3 seconds |
| VIDEO LATENCY | 2 to 3 frames |
| INPUT RESOLUTIONS | 640x350@60/70/85Hz, 640x400@70/85Hz, 640x480@57/60/66/72/85Hz, 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@60/75Hz, 1280x720@25p/30p/50p/60p/75Hz, 1280x768@50/60 (RB)/60/75/85Hz, 1280x800@59/60/75/85Hz, 1280x960@60/75/85Hz, 1280x1024@59/60/72/75/76/85Hz, 1360x768@60Hz, 1366x768@60Hz, 1400x1050@59/60/75Hz, 1440x900@60 (RB)/60/75/85Hz, 1600x900@60 (RB)/60/75Hz, 1600x1024@60/75Hz, 1600x1200@51/59/60/65/70/75Hz, 1680x1050@59/60/75Hz, 1920x1200@59/60/65/75Hz, 1920x1080@50i/60i/24p/25p/30p/50p/60p/60Hz, 920x1080@60s, 1920x1080@50vesa, 3840x2160@24p/25p/30p/50p/50p (420)/60p/60p (420)/60p (RB), 4096x2160@24p/25p/30p/50p/50p (420)/60p/60p (420) |
| 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@24/25/30Hz, 4K2K (4:2:0)@50/60Hz |

POWER

| | |
|-------------|---------------|
| SOURCE | 48V DC, 410mA |
| CONSUMPTION | 48V DC, 1.36A |

ENVIRONMENTAL CONDITIONS