



# kramer

## VP-428H2

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

| VGA/UXGA - 15-pin HD | HDMI | Ethernet - RJ-  
45 | HDBaseT | HDCP 2.2 Compatible



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



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## TECHNICAL SPECIFICATIONS

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Inputs	<p>1 DP On a Display Port connector</p> <p>1 HDMI On a female HDMI connector</p> <p>1 PC On a 15-pin HD connector</p> <p>1 Stereo Analog Unbalanced Audio On a 3.5mm mini jack</p> <p>1 IR On a 3.5mm mini jack</p>
Outputs	<p>HDBaseT On an RJ-45 port</p> <p>1 IR On a 3.5mm mini jack</p>
Ports	<p>1 Ethernet On an RJ-45 female connector for port tunneling</p> <p>1 USB On a female USB-A connector</p> <p>1 DATA RS-232 On a 3-pin terminal block for serial link extension</p> <p>1 CTRL RS-232 On a 3-pin terminal block for device control</p>
Video	<p>Max Data Rate 10.2Gbps (3.4Gbps per graphic channel)</p> <p>Max. Input Resolution 4K@60Hz (4:4:4)</p> <p>Max. Output Resolution 4K@60Hz (4:2:0)</p> <p>Standards Compliance Support HDCP 2.2 and DP 1.2A. Supports 4K60, CEC, xvYCC color (on input), Dolby TrueHD/DTS-HD Master Audio as specified in HDMI 2.0</p> <p>Switching Time Between Inputs 2 to 3 seconds</p> <p>Video Latency 2 to 3 frames</p> <p>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)</p> <p>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</p>
Power	<p>Source 48V DC, 1.36A</p> <p>Consumption 48V DC, 410mA</p>
Enclosure	<p>Cooling Convection ventilation</p>

## 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

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### Shipping Dimensions

0.00cm x 0.00cm x 0.00cm (0.00" x 0.00" x 0.00" ) 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

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