



VP-429H2

4K60 4:4:4 HDMI, DP and VGA Scaler /
Switcher Tool

| HDMI | 4K/60 UHD (4:4:4)



VP429H2 is a 4K@60Hz (4:4:4) scaler / switcher tool for HDMI, DisplayPort, VGA, and unbalanced audio signals. The unit scales the signal and outputs it on HDMI. StepIn functionality provides easy plugandplay collaboration when connected to a switcher that supports StepIn over HDMI. It also features convenient RS232 control of monitor or projector activation and supports Ethernet, contact closure switches and RS232 control

FEATURES

High-Performance Switcher/Scaler - Scales signals of all standard resolutions up to 4K (4:4:4) HDMI HDCP 2.2 for output to the HDMI output. Constant output sync prevents signal disruption when switching between inputs and when no video is detected. Supports Deep Color, x.v.Color™ and 3D as specified in HDMI 2.0

Superior Switching and Signal Control - Select automatic switching options using live input detection, enable or disable HDCP per input, copy and save the EDID to the inputs (supported on HDMI and DisplayPort inputs), and define output refresh rate and aspect ratio

Local Step-In Switching - When used with a StepIn enabled switcher, just plug in your device and press the StepIn button or use the contact closure StepIn switch. Your device becomes the active signal on the main display

Diverse Inputs - 2 HDMI (4K@60Hz (4:4:4)), 1 DisplayPort and 1 VGA input

Cost-Effective and Convenient Control Options - Local control via front panel input selection buttons and setup DIPswitches, Ethernet with embedded web pages, RS232 serial ports for control of the unit and of a display via the unit, and GPI controls

Easy Installation - Compact MegaTOOLS® fan-less enclosure for surface mounting or side-by-side mounting of 2 units in a 1U rack space with the recommended rack adapter



KRAMER

TECHNICAL SPECIFICATIONS

Inputs	2 HDMI: On female HDMI connectors 1 DisplayPort: On a female DisplayPort connector 1 VGA: On a 15pin HD connector 1 Stereo Analog Unbalanced Audio: On a 3.5mm mini jack
Outputs	1 HDMI: On a female HDMI connector 1 Stereo Analog Unbalanced Audio: On a 3.5mm mini jack
Ports	1 Ethernet : On an RJ45 connector 1 RS-232 Control: On a 3pin terminal block for unit control 1 RS-232 Data: On a 3pin terminal block for external device control Remote Contact Closure Switches : On a 5pin terminal block for input selection, Step-In activation and audio volume control 1 USB: On a mini USB connector for firmware upgrade
Video	Max Resolution: 4K@60Hz (4:4:4) Standards Compliance: HDMI, HDCP 2.2 HDMI Support Deep Color, x.v.Color™ and 3D as specified in HDMI 2.0 HDMI Input Resolutions: 640x350@85Hz, 640x400@85Hz, 640x480@30Hz, 640x480@60Hz, 640x480@75Hz, 640x480@85Hz, 720x400@85Hz, 720(1440)x480@60Hz, 2880x480@60Hz, 720(1440)x576@25Hz, 720(1440)x576@50Hz, 2880x576@50Hz, 720x576@50Hz, 720x576@100Hz, 800x600@60Hz, 800x600@75Hz, 800x600@85Hz, 1024x768@60Hz, 1024x768@75Hz, 1024x768@85Hz, 1280x720@50Hz, 1280x720@60Hz, 1280x768@60Hz, 1280x768@75Hz, 1280x768@85Hz, 1280x960@60Hz, 1280x960@85Hz, 1280x1024@60Hz, 1280x1024@75Hz, 1280x1024@85Hz, 1600x1024@60Hz, 1600x1200@60Hz, 1920x1080@24Hz, 1920x1080@25Hz, 1920x1080@30Hz, 1920x1080@50Hz, 1920x1080@60Hz, 1920x1200@60Hz, 3840x2160@24Hz, 3840x2160@30Hz, 3840x2160@60Hz DP Input Resolutions: 640x350@85Hz, 640x400@85Hz, 640x480@60Hz, 640x480@75Hz, 640x480@85Hz, 720x400@85Hz, 800x600@60Hz, 800x600@75Hz, 800x600@85Hz, 848x480@60Hz, 1024x768@60Hz, 1024x768@75Hz, 1024x768@85Hz, 1152x864@75Hz, 1280x720@60Hz, 1280x768@60Hz, 1280x768@75Hz, 1280x768@85Hz, 1280x960@60Hz, 1280x960@85Hz, 1280x1024@60Hz, 1280x1024@75Hz, 1280x1024@85Hz, 1366x768@60Hz, 1600x900@60Hz, 1600x1200@60Hz, 1600x1200@65Hz, 1600x1200@70Hz, 1600x1200@75Hz, 1680x1050@60Hz, 1792x1344@60Hz, 1856x1392@60Hz, 1920x1080@24Hz, 1920x1080@25Hz, 1920x1080@30Hz, 1920x1080@60Hz, 1920x1200@60Hz, 2048x1152@60Hz, 3840x2160@30Hz, 3840x2160@60Hz* (*Note: 3840x2160 is supported on the DP input, in MST format only) VGA Input Resolutions: 640x400@85Hz, 640x480@75Hz, 640x480@85Hz, 720x480@60Hz, 720x576@50Hz, 800x600@60Hz, 848x480@60Hz, 1024x768@60Hz, 1024x768@70Hz, 1024x768@75Hz, 1152x864@75Hz, 1280x720@50Hz, 1280x720@60Hz, 1280x768@60Hz, 1280x768@75Hz, 1280x768@80Hz, 1280x1024@60Hz, 1280x1024@75Hz, 1366x768@60Hz, 1600x1200@60Hz, 1600x1200@65Hz, 1600x1200@70Hz, 1600x1200@75Hz, 1680x1050@60Hz, 1792x1344@60Hz, 1856x1392@60Hz, 1920x1080@50Hz, 1920x1080@60Hz Output Resolutions: 800x600 (SVGA)@60Hz, 1024x768 (XGA)@60Hz, 1280x1024@60Hz, 1280x720 (WXGA)@50Hz, 1280x720 (WXGA)@60Hz, 1280x768 (WXGA)@60Hz, 1280x800 (WXGA)@60Hz, 1360x768@60Hz, 1366x768 (HD)@60Hz, 1400x1050@60Hz, 1440x900@60Hz, 1600x1200 (UXGA)@60Hz, 1600x900 (HD+)@60Hz, 1680x1050@60Hz, 1920x1080 (1080p)@50Hz,

1920x1080 (1080p)@60Hz, 1920x1200 (WUXGA)@60Hz, 3840x2160 (4K)@30Hz, 3840x2160 (4K)@50Hz, 3840x2160 (4K)@60Hz

Switching Transition Time: <2.5 seconds

User Interface Controls: Input selection, StepIn and factory reset buttons, RS232, Ethernet, remote drycontact switches

Indicators: Power LED

Power Consumption: 1.1A

Source: 12V DC

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 noncondensing

REGULATORY Safety: UL, CE

Environmental: FCC

Enclosure Size: MegaTOOLS®

Type Aluminum

Cooling Convection ventilation

Accessories Included Power adaptor, bracket set, rubber feet

Product Dimensions 18.75cm x 11.50cm x 2.54cm (7.38" x 4.53" x 1.00") W, D, H

Product Weight 0.5kg (1.0lbs) approx

Shipping Dimensions 34.50cm x 16.50cm x 5.20cm (13.58" x 6.50" x 2.05") W, D, H

Shipping Weight 1.1kg (2.4lbs) approx

