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## VP-440X

18G 4K Presentation Switcher/Scaler with  
HDBaseT & HDMI Simultaneous Outputs

| HDMI | Microphone - 3.5/6.5mm | Ethernet - RJ-45 | HDBaseT | 4K/60 UHD (4:4:4)



VP-440X is a high-performance 18G 4K HDR presentation switcher/scaler with four HDMI inputs and one computer graphics (VGA) input. It scales the video, embeds the audio, and outputs the signal to two identical outputs – one HDMI and one HDBaseT – together with an analog stereo audio output. Via HDBaseT, it extends 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

**High-Performance Professional Scaler** - Up-scales, down-scales and cross-scales up to resolutions of 4K@60 (4:4:4). The output resolution can be set to the native resolution either of the sinks, or manually set to another resolution. When the product is configured to scale to 18G 4K resolutions, the HDBT output automatically down-samples the chroma sampling to 4:2:0 coding

**Smooth Switching** - Constant output sync, prevents output glitches while switching between inputs, even when no video is detected

**Flexible Digital and Analog Audio** - Select a dedicated unbalanced analog audio input to embed into each input. In addition, a microphone input is provided on the front panel for mixing, switching or talk-over. Any of the signals can play audio through the unbalanced audio output

**Powerful Audio Processing** - Supports DSP technology including audio equalization, mixing, delay, and microphone talk-over (ducking)

**HDMI Signal Extension** - HDCP 2.2 and HDCP 1.4 compliant

**HDR** - Supports HDR10

**EDID Pass-Through** - EDID passed through from the source to the display

**CEC Support** - Supports passing of CEC from input to output. Automatically sends CEC commands to shut down the output display after a timeout period when no input signal is found and to power up the display when the input returns

**Bidirectional RS-232 Extension** - Serial interface data flows in both directions, on each extension line, enabling data transmission and control of devices

**Diverse Control Options** - Control the unit using an OSD (On-Screen Display) via front panel buttons, embedded web pages via Ethernet and/or serial communication via RS-232 transmitted by a PC, touch screen system or other serial controller. Additionally, connect to the contact closure connector for remote switching of sources and for toggling the display ON and OFF

**Easy Installation** - ½ 19" size enables mounting in a 1U rack space with the recommended rack adapter



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## TECHNICAL SPECIFICATIONS

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Inputs	4 HDMI : On female HDMI connectors 1 VGA: On a 15-pin HD connector 5 Stereo Analog Unbalanced Audio: On a 3.5mm mini jack 1 Microphone: On a 6.3mm jack
Outputs	1 HDMI : On a female HDMI connector 1 HDBaseT: On an RJ-45 connector 1 Stereo Analog Unbalanced Audio: On a 3.5mm mini jack
Ports	1 Ethernet: 100Mbps, on an RJ-45 female 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 6 Contact Closure Switches: On a 7-pin terminal block connector 1 USB: On a female USB-A connector for firmware upgrade
Video	Max. Resolution: 4K@60Hz (4:4:4) Max Data Rate: 18Gbps (6Gbps per graphic channel) Standards Compliance HDCP 1.4 & 2.2. Supports HDR10 Input Resolutions HDMI: 480i/576i, 480p/576p, 720p@60/50Hz, 1080i@60/50Hz, 1080p@60/50Hz, 1080p@24/25/30Hz, 640x480@60/67/72/75/85Hz, 800x600@56/60/72/75Hz, 1024x768@60/70/75Hz, 1280x1024@60/75Hz, 1280X960@60Hz, 1280X720@60Hz, 1920X1080@60Hz, 1600X1200@60Hz, 1280x768@60Hz, 1280x800@60Hz, 1360x768@60Hz, 1366x768@60Hz, 1400x1050@60Hz, 1600X900@60Hz RB, 1680x1050@60Hz, 1920x1200@60Hz RB, 2048x1080@24/25/30/50/60Hz, 4K/2K@24/25/30/50/60Hz, 4K/2K(4:2:0)@50/60Hz Input Resolutions VGA: 640x480@60/67/72/75/85Hz, 800x600@56/60/72/75Hz, 1024x768@60/70/75Hz, 1280x1024@60/75Hz, 1280X960@60Hz, 1280X720@60Hz, 1920X1080@60Hz, 1600X1200@60Hz, 1280x768@60Hz, 1280x800@60Hz, 1360x768@60Hz, 1366x768@60Hz, 1400x1050@60Hz, 1600X900@60Hz RB, 1680x1050@60Hz, 1920x1200@60Hz RB Output Resolutions: 640x480@60Hz, 800x600@60Hz, 1024x768@60Hz, 1280x768@60Hz, 1280x800@60Hz, 1280x1024@60Hz, 1360x768@60Hz, 1400x1050@60Hz, 1440x900@60Hz, 1600x1200@60Hz, 1680x1050@60Hz, 1920x1200@60Hz RB, 1920x1080@60Hz, 1280x720@60Hz, 720x480p@60Hz, 720x576p@50Hz, 1280x720p@50/60Hz, 1920x1080p@24/25/30/50/60Hz 4K Output Resolutions – HDMI 4K@24/25/30/50/60Hz (4:4:4) 4K Output Resolutions – HDBaseT 4K@24/25/30Hz (4:4:4), 4K@50/60Hz (4:2:0) Switching Time Between Inputs 3 seconds Video Latency 1-2 frames
Extension Line	Compliance HDBaseT 1.0 Up to 40m (130ft) At 4K@60Hz (4:2:0) Up to 70m (230ft) At full HD (1080p @60Hz 24bpp)

## Note When using Kramer HDBaseT cables

Power	Source: 5V DC, 4A Consumption 18–19W
Enclosure	Cooling: Convection ventilation Type: Aluminum Size 1/2 19"
Environmental Conditions	Operating Temperature: 0° to +40°C (32° to 104°FHz) Storage Temperature: –40° to +70°C (–40° to 158°FHz) Humidity: 10% to 90%, RHL non–condensing
Accessories	Included: Power adapter, rubber feet
Product Dimensions	21.46cm x 16.30cm x 4.36cm (8.45" x 6.42" x 1.72" ) W, D, H
Product Weight	1.1kg (2.4lbs) approx
Shipping Dimensions	35.10cm x 21.20cm x 7.20cm (13.82" x 8.35" x 2.83" ) W, D, H
Shipping Weight	1.6kg (3.5lbs) approx

