



# KRAMER

## VP-445

12-Input Presentation Switcher/Scaler

| HDMI | Ethernet - RJ-45 | HDCP Compliant



The VP-445 is a high-performance presentation scaler/switcher for HDMI, computer graphics and composite video signals. The unit scales the video and gives you an option to embed HDMI or analog audio. Then it sends the signal to two HDMI outputs and S/PDIF and balanced stereo audio outputs simultaneously

## FEATURES

**Max. Resolutions** - Up to UXGA/1080p

**HDTV Compatibility**

**PixPerfect™ Scaling Technology** - Kramer's precision pixel mapping and high-quality scaling technology. High-quality 3:2 and 2:2 pull-down de-interlacing and full up- and down-scaling of all video input signals

**12 Video Inputs** - 6 HDMI on HDMI connectors, 4 computer graphics video on 15-pin HD connectors and 2 composite video on RCA connectors

**Two HDMI Scaled Outputs (Mirrored)**

**2 Microphone Inputs** - For mixing, switching or talk-over

**Companion AFV (Audio-Follow-Video)** - Stereo audio for every input (on terminal blocks)

**Audio Inputs** - 12 unbalanced stereo inputs on terminal blocks, embedded audio for the HDMI inputs, each with individual level controls

**Audio Outputs** - 1 S/PDIF on an RCA connector, one balanced stereo audio on a terminal block and embedded audio on the HDMI outputs

**Powerful Audio Features** - Via DSP technology including audio equalization, mixing, delay and so on

**Multiple Aspect Ratio Selections** - Full, best fit, over scan, under scan, letter box and pan scan

**Built-in ProcAmp** - Color, hue, sharpness, noise, contrast and brightness

**Color Sampling Support** - 4:4:4 (RGB and YUV) and 4:4:2 (YUV)

**Constant Output Sync** - No disruption on the output while switching between inputs and when no video is detected

**Front Panel Control** - Audio mute and freeze frame

**Front Panel Lockout**

**Non-Volatile Memory** - Saves final settings

**Various Control Options** - Front panel buttons, RS-232, IR remote, OSD, Ethernet Web pages, Ethernet using UDP

**Universal Power Supply** - 100-240V AC



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## TECHNICAL SPECIFICATIONS

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|--------------------------|---|
| Inputs                   | 6 HDMI: On female HDMI connectors (HDCP 1.4)<br>4 VGA: On a 15-pin HD connector<br>2 CV: On RCA connectors<br>12 Unbalanced Stereo Audio: On 3-pin terminal block connectors<br>2 Mic: On 6mm jack connectors (with selectable 48V phantom power)   |
| Outputs                  | 2 HDMI: On female HDMI connectors (HDCP 1.4)<br>1 S/PDIF: On an RCA connector<br>1 Balanced Stereo Audio: On a 5-pin terminal block connector   |
| Video                    | Bandwidth: Up to 1080p, UXGA<br>Switching Time Between Inputs: 2 to 3 seconds<br>Latency: Less than 2 frames<br>Input Color Depth: Up to 12-bit<br>Output Resolutions: Native, 640x480 @60Hz, 800x600 @60Hz, 1024x768 @60Hz, 1280x768 @60Hz, 1360x768 @60Hz, 1280x720 @60Hz, 1280x800 @60Hz, 1280x1024 @60Hz, 1440x900 @60Hz, 1400x1050 @60Hz, 1680x1050 @60Hz, 1600x1200 @60Hz, 1920x1080 @60Hz, 1920x1200 @60Hz, 480p @60Hz, 720p @60Hz, 1080i @60Hz, 1080p @60Hz, 576p @50Hz, 720p @50Hz, 1080i @50Hz, 1080p @50Hz |
| Audio                    | Input Sampling Rate: 32KHz, 44.1KHz, 48KHz<br>Output Sampling Rate: 48KHz   |
| User Interface           | Controls: Input selector, freeze, mute, reset resolution and lock buttons, RS-232, IR, web pages via Ethernet   |
| Power                    | Source: 100-240V AC<br>Consumption: 30VA max  |
| Environmental Conditions | Operating Temperature: 0° to +40°C (32° to 104°F)<br>Storage Temperature: -40° to +70°C (-40° to 158°F)<br>Humidity: 10% to 90%, RHL non-condensing   |
| Accessories              | Included: Power cord, rack ears, IR remote control  |
| Product Dimension        | 19" x 7.20 x 1U (43.6cm x 18.30cm x 4.36cm) W, D, H   |
| Product Weight           | 1.8kg (4.0lbs) approx   |
| Shipping Dimension       | 55.00cm x 27.60cm x 10.70cm (21.65" x 10.87" x 4.21" ) W, D, H  |
| Shipping Weight          | 2.5kg (5.5lbs) approx   |

