



# KRAMER

## VP-436

7-Input Analog & HDMI ProScale™ Presentation Digital Scaler/Switcher



The **VP-436** is a 7-input scaler/switcher for composite video, s-Video (Y/C), component video, computer graphics video and HDMI with unbalanced stereo and S/PDIF audio signals. It scales the selected video signal to a computer graphics or HDTV output resolution, embeds the audio and outputs an HDMI signal.

## FEATURES

- **K-Storm™ Scaling Technology** - Kramer's extremely high-performance scaling technology. High-quality 3:2 and 2:2 pull down de-interlacing and full up and down scaling of computer graphics video input signals.
- **HDTV Compatible.**
- **HDCP Compliant** - The HDCP (High Definition Content Protection) license agreement allows copy-protected data on the HDMI input to pass only to the HDMI output.
- **Video Inputs** - 1 composite video, 1 s-Video, 2 component video, 1 computer graphics (15-pin HD) & 2 HDMI.
- **Scaled Outputs** - A single output signal simultaneously available in 3 formats: 1 HDMI and 2 RGBHV (5 BNC, & 15-pin HD).
- **18 Output Resolutions** - Up to WUXGA & 1080p.
- **Audio Inputs** - 7 unbalanced on terminal blocks, individual level control.
- **Audio Output** - Transcodes to both stereo and S/PDIF audio simultaneously (RCAs) and embeds audio onto the HDMI output, master volume control.
- **Multi-Standard** - PAL & NTSC.
- **Audio Delay** - 40ms, 110ms, 150ms, or disable.
- **Companion AFV (Audio-Follow-Video)** - Stereo audio for every input.
- **Built-in ProcAmp** - Color, hue, sharpness, noise, contrast, and brightness.
- **Front Panel Control** - Audio mute, video blanking & freeze frame.
- **Front Panel Lockout.**
- **Multiple Aspect Ratio Selections** - Full, overscan, underscan, letter box & panscan.
- **Flexible Control Options** - Front panel buttons, IR remote with OSD (on-screen display) & RS-232.
- **Worldwide Power Supply** - 100-240V AC.
- **Standard 19" Rack Mount Size** - 1U. Rack "ears" included.

## TECHNICAL SPECIFICATIONS

INPUTS:	2 HDMI connectors (HDMI, HDCP version 1.1); 1 VGA on a 15-pin HD connector; 1 composite video on an RCA connector; 1 Y/C on a 4-pin connector; 2 component video each on 3 RCA connectors; 2 HDMI, 1 VGA, 2 COMP, 1 CV, 1 Y/C, unbalanced stereo audio on 7 3-pin terminal block connectors.
OUTPUTS:	1 RGBHV on 5 BNC connectors; 1 HDMI connector (HDMI, HDCP version 1.1); 1 VGA (RGBHV) on a 15-pin HD connector; 1 S/PDIF on an RCA connector; 1 unbalanced stereo audio on RCA connectors.
H FREQUENCY:	15.63–90kHz.
V FREQUENCY:	23–90Hz.
RGB SYNCs:	H and V TTL separated syncs.
RGB LEVEL:	1.2Vpp max, 75Ω load.
XGA OUT LEVEL:	1.2Vpp max, 75Ω load.
S/PDIF OUT LEVEL:	0.55Vpp constant.
OUTPUT RESOLUTIONS:	480i, 480p, 720p60, 1080i60, 1080p60, 576i, 576p, 720p50, 1080i50, 1080p50, WXGA, WSXGA, WUXGA, VGA, SVGA, XGA, SXGA, UXGA, Native.
OUTPUT REFRESH RATE:	60Hz for computer graphics resolutions, 50/60Hz for HDTV resolutions.
CONTROLS:	CV, Y/C, component 1, component 2, VGA, HDMI 1, HDMI 2, input selector buttons; blank, mute, freeze buttons; menu, enter, menu arrows, reset to XGA/720p, lock buttons, RS-232, IR.
POWER CONSUMPTION:	100–240V AC, 33VA max.
DIMENSIONS:	19" x 7" x 1U (W, H, D) rack mountable.
WEIGHT:	2.7kg (6lbs) approx.
INCLUDED ACCESSORIES:	Power cord, null-modem adapter, IR remote control, rack "ears".

