



VP-436N

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



The VP-436N is a 7-input scaler/switcher for composite, component, s-Video (Y/C), 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.



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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 (HDTV compatible), 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).
- **Improved HDMI Output Drive** - Exceeds 60ft at 1080p @60Hz.
- **Output Resolutions** - 20 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, letterbox & 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.



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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:	Native, VGA, SVGA, XGA, SXGA, UXGA, 480i, 480p, 576i, 576p, 720p, 1080i, 1080p, WXGA, WSXGA, WUXGA, 1280x800, 1440x900, 1400x1050, 1600x900.
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.
ACCESSORIES:	Power cord, null-modem adapter, IR remote control, rack "ears".



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