VP-438

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

| VGA/UXGA - 15-pin HD | HDMI
| HDCP Compliant

The VP-438 is a high-performance presentation scaler/switcher for HDMI, computer graphics, composite video and component video signals. It scales the video, embeds the audio, and outputs the signal to the HDMI, computer graphics and RGBHV video outputs together with digital and analog stereo audio outputs

FEATURES

Video Inputs - 4 HDMI, 2 computer graphics video on 15-pin HD connectors, 2 composite video & 2 component video on RCA connectors

Scaled Outputs - A single output signal simultaneously available in 3 formats: 1 HDMI, 1 RGBHV on BNC connectors & 1 computer graphics video on a 15-pin HD connector

22 Output Resolutions - Up to UXGA and 1080p

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

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

Multi-Standard - PAL & NTSC

Companion AFV (Audio-Follow-Video) - Stereo audio for every input (on terminal blocks) and individual level controls

Multiple Aspect Ratio Selections - Full, overscan, underscan, letterbox & panscan

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

Audio Outputs - 1 S/PDIF & 1 unbalanced stereo audio on RCA connectors

Front Panel Control - Audio mute, video blanking & freeze frame

Front Panel Lockout

Non-Volatile Memory - Saves final settings

Flexible Control Options - Front panel, IR remote (available upon request) 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:	4 HDMI connectors (HDMI, HDCP version 1.1); 2 VGA on a 15-pin HD connector; 2 composite video on an RCA connector; 2 component video each on 3 RCA connectors; 4 HDMI, 2 PC, 2 COMP, 1 CV unbalanced stereo audio on 10 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 analog stereo audio on 2 RCA connectors
OUTPUT COLORSPACE:	RGB
H FREQUENCY:	15.63-90kHz
V FREQUENCY:	50-100Hz
RGB SYNCS:	H and V TTL separated syncs
RGB LEVEL:	1.2Vpp max, 75Ω load
XGA OUT LEVEL:	1.2Vpp max, 75Ω load
OUTPUT RESOLUTIONS:	Native, VGA, SVGA, XGA, SXGA, UXGA, 480i, 480p, 576i, 576p, 720p, 1080i, 1080p, WXGA, WSXGA, WUXGA, 1280x800, 1440x900, 1400x1050, 1600x900
OUTPUT REFRESH RATES:	60Hz for computer graphics resolutions; 50/60/59.9Hz (HDTV and 480i/p resolutions), 50Hz (576i/p resolutions)
CONTROLS:	Input selector buttons; blank, mute, freeze buttons; menu, enter, menu arrows, reset to XGA/720p, lock buttons, RS-232
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 non-condensing
POWER CONSUMPTION:	100-240V AC, 33VA max
INCLUDED ACCESSORIES:	Power cord, rack "ears"
Product Dimensions	19" x 7.20 x 1U (43.6cm x 18.30cm x 4.36cm) W, D, H
Product Weight	0.0kg (0.0lbs) approx
Shipping Dimensions	55.00cm x 27.60cm x 10.70cm (21.65" x 10.87" x 4.21") W, D, H
Shipping Weight	2.7kg (6.0lbs) approx

![HDMI](HDMI logo)

Audio connections are not shown

HDMI

DVD Player 1

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HDMI

DVD Player 4

VGA

Computer Graphics Source

CV

Composite Video Player 1

CV

Composite Video Player 2

YUV

Component Video Player

RGBHV

RGBHV Display

HDMI

Plasma Display

VGA

Projector

RS-232