



KRAMER

VP-460

3-Input Analog & 3G HD-SDI ProScale™
Presentation Switcher/Scaler

| HDMI | 3G HD-SDI - BNC



The VP-460 is a high-quality presentation switcher and scaler with PIP for computer graphics, composite video and 3G HD-SDI signals. It scales the video, embeds the audio and outputs the signal to the HDMI and SDI outputs together with a digital audio output

FEATURES

K-IIT XL™ Picture-in-Picture Image Insertion Technology - Ultra-stable picture-in-picture, picture-and-picture, and split screen capability. Any video source can be inserted into or positioned next to an SDI video source or vice versa with window positioning and sizing controls

Kramer's 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

Ultra-Fast Fade-Thru-Black (FTB™) Switching - Video switching transitions are clean and ultra fast. The video fades to black and the new input fades from black for smooth, glitch-free switching. The output signal provides constant sync so the display never glitches

HDTV Compatible

Multi-Standard Operation - SDI (SMPTE 259M), HD-SDI (SMPTE 292M) and 3G HD-SDI (SMPTE 424M)

Video Inputs - 1 computer graphics on a 15-pin HD connector, 1 composite video on an RCA connector, 1 SD/HD/3G HD-SDI with loop on BNC connectors

Scaled Outputs - 1 HDMI, 1 SD/HD/3G HD-SDI on a BNC connector

40 Output Resolutions - Up to WUXGA, 1080p and 2K

HDMI Deep Color Support - For inputs and outputs

Luma Keying - Via PIP window

Vertical Keystoning

Built-in ProcAmp - Color, sharpness, contrast, brightness and gamma are set individually for each input

3D Comb Filtering - Provides the best quality color separation for composite video inputs

Built-in Time Base Corrector - Stabilizes unstable video sources

Powerful Noise Reduction Filters - Temporal, block, mosquito and combing

Picture Zooming - From 100% to 1600% on both main and PIP picture

De-interlacing - 3:2 and 2:2 pull-down; 24sf handling

Multiple Aspect Ratio Selections - Follow input, follow output, best fit, letterbox and overscan

Dual Window Display - Preset picture-in-picture, picture-and-picture and split screens, as well as customized window layouts

Audio Inputs - 1 computer graphics on a 3.5mm mini-jack connector, 1 CV on RCA connectors; embedded audio (user selectable) on the SDI input

Audio Outputs - 1 S/PDIF on an RCA connector, embedded audio on the HDMI and SDI outputs

Power Save Modes - Options for efficient energy use

Advanced EDID Management - For each input and each output

Non-Volatile Memory - Saves final settings

Firmware Upgrades - Via RS-232

Flexible Control Options - Front panel buttons, OSD (on-screen display) via front panel buttons or IR remote (remote control included); control application software for use via RS-232

Desktop Size - Compact size. 2 units can be rack mounted side-by-side in a 1U rack space with the recommended rack adapter



TECHNICAL SPECIFICATIONS

INPUTS:	1 computer graphics on a 15-pin HD connector, 1 composite video, 1Vpp @75Ω on an RCA connector, 1 SD/HD/3G HD-SDI on a BNC connector, 1 unbalanced stereo audio on a 3.5mm mini jack connector, 1 unbalanced stereo audio on 2 RCA connectors
OUTPUTS:	1 SD/HD/3G HD-SDI on a BNC connector, 1 HDMI (deep color) connector, 1 S/PDIF digital audio on an RCA connector
COMPLIANCE WITH HDMI STANDARD:	Supports HDMI Deep Color
OUTPUT RESOLUTIONS:	640x480@60, 640x480@75, 800x600@50, 800x600@60, 800x600@75, 1024x768@50, 1024x768@60, 1024x768@75, 1280x768@50, 1280x768@60, 1280x800@60, 1280x1024@50, 1280x1024@60, 1280x1024@75, 1360x768@60, 1366x768@50, 1366x768@60, 1400x1050@50, 1400x1050@60, 1600x900@60, 1600x1200@50, 1600x1200@60, 1680x1050@60, 1920x1200@60, 480i60, 480p60, 576i50, 576p50, 720p50, 720p59.94, 720p60, 1080p23.976, 1080p24, 1080p25, 1080p29.97, 1080p30, 1080p50, 1080p59.94, 1080p60, 2K50, 2K60
CONTROLS:	Front panel buttons, OSD, IR remote control, RS-232 on a 9-pin D-sub connector
POWER CONSUMPTION:	5V DC, 2.90A
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
INCLUDED ACCESSORIES:	Power supply, IR remote control
PRODUCT DIMENSION:	21.46cm x 16.30cm x 4.36cm (8.45" x 6.42" x 1.72") W, D, H
PRODUCT WEIGHT:	1.0kg (2.2lbs) approx
SHIPPING DIMENSION:	35.10cm x 21.20cm x 7.20cm (13.82" x 8.35" x 2.83") W, D, H
SHIPPING WEIGHT:	1.6kg (3.6lbs) approx

