

VP-460

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





















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 an optional RK-1 adapter.

INPUTS: I computer graphics on a 15-pin HD connector, I composite video, TVpp @/522 on an ROA

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 Supports HDMI Deep Color.

WITH HDMI STANDARD:

OUTPUT 640x480@60, 640x480@75, 800x600@50, 800x600@60, 800x600@75, 1024x768@50,

RESOLUTIONS: 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 5V DC, 2.90A.

CONSUMPTION:

OPERATING 0° to $+40^{\circ}$ C (32° to 104°F).

TEMPERATURE:

STORAGE -40° to $+70^{\circ}$ C (-40° to 158° F).

TEMPERATURE:

HUMIDITY: 10% to 90%, RHL non-condensing.

DIMENSIONS: 21.5cm x 16.3cm x 4.4cm (8.5" x 6.4" x 1.7") W, D, H.

WEIGHT: 0.9kg (1.98lbs) approx.

INCLUDED Power supply, IR remote control.

ACCESSORIES:

OPTIONS: RK-1 rack adapter.

