

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 output, as well as to the SDI output 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.
- K-Storm™ Scaling Technology Kramer's extremely high performance scaling technology for converting the incoming video signal with a minimum of motion artifacts. Up- and down-scaling of computer graphics video signals is possible.
- 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.

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

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.

OPERATING 0° to +40°C (32° to 104°F).

TEMPERATURE:

TEMPERATURE:

STORAGE TEMPERATURE:

-40° to +70°C (-40° to 158°F).

I EWIPERATURE.

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

POWER 5V DC, 2.90A.

CONSUMPTION:

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.

ACCESSORIES: Power supply, IR remote control.

OPTIONS: RK-1 rack adapter.

