VP-771

9-Input ProScale™ Presentation Switcher/Scaler

Compatible with HDTV component video signals when used with a breakout cable such as the Kramer C-GM/3RVF.
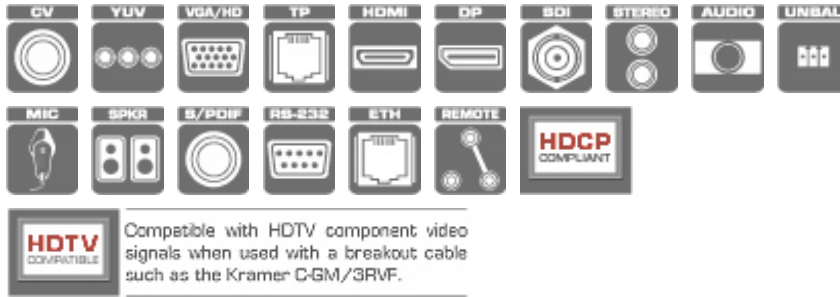
The VP-771 is a high-quality presentation switcher and scaler for a variety of signals. It accepts one of nine inputs: component video, DisplayPort (DP), 3G HD-SDI, two computer graphics, two composite video and two HDMI signals. It scales the video, embeds the audio, and outputs the signal to one HDMI, one computer graphics, one 3G HD-SDI and one DGKat TP, together with digital audio, unbalanced stereo and a 2x10-watt amplified balanced stereo speaker output.

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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 a computer graphics 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 to a scaled output resolution 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.

- **Advanced Deinterlacing Functions** - Method, sync, selectable film modes, diagonal correction and motion detection sensitivity, 3:2 and 2:2 pull−down; 24sf handling.

- **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.

- **Multi-Standard Operation** - SDI (SMPTE 259M and SMPTE 344M), HD−SDI (SMPTE 292M) and 3G HD−SDI (SMPTE 424M).

- **Advanced Input and Output EDID Management.**

- **Video Inputs** - Component (Y, Pb, Pr) video on RCA connectors, DisplayPort (DP), SD/HD/3G HD−SDI (including SDI loop) on BNC connectors, 2 computer graphics on 15−pin HD connectors, 2 composite video on RCA connectors and 2 HDMI.

- **Scaled Outputs** - HDMI, computer graphics on a 15−pin HD connector, SD/HD/3G HD−SDI on a BNC connector and DGKat twisted pair on an RJ−45 connector.

- **SDI Channeling** - Select one active signal and three bypassed signals from eight embedded stereo audio channels.

- **Multiple Output Resolutions** - Up to 2K and 1080p.

- **HDMI Deep Color Support.**

- **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** - Both on main and PIP window from 100% to 1600%, including separate V and H sharpness control.

- **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** - 2 HDMI, 2 computer graphics and 1 DisplayPort and 1 microphone in on 3.5mm mini jacks; 2 CV and 1 S/PDIF on RCA connectors.

- **Audio Outputs** - 1 S/PDIF on an RCA connector, 1 unbalanced stereo audio on a 3−pin terminal block connector and 2x10W power amplifier for balanced speakers on terminal block connectors.

- **HDMI Audio** - Embeds/de−embeds HDMI audio with delay of 0−90msec for lip−sync correction.

- **Microphone Input** - Supports mix and talk−over features, as well as 0−90msec delay to prevent feedback.

- **Non-Volatile Memory** - Saves final settings.

- **Firmware Upgrades** - Via Ethernet and RS−232.

- **Flexible Control Options** - Front panel buttons, contact closure, OSD (on−screen display) via front panel buttons or IR remote (remote control included), Control Application software for use via Ethernet and RS−232.

- Selectable Power Save Modes.
- Worldwide Power Supply - 100−240V AC.
- Standard 19" Rack Mount Size - 1U. Rack "ears" included.

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TECHNICAL SPECIFICATIONS

INPUTS:	2 HDMI (deep color) connectors, 2 VGA on 15−pin HD connectors, 1 component video on 3 RCA connectors, 2 composite video on RCA connectors, 1 DisplayPort connector, 1 SD/HD/3G HD−SDI plus loop a BNC connector, 2 HDMI, 2 VGA, 1 DP, 2 CV unbalanced stereo audio on 3.5mm mini jack connectors, 1 S/PDIF (for component video input) digital audio on an RCA connector, 1 mic on a 3.5mm mini jack connector.
OUTPUTS:	1 VGA on a 15−pin HD connector, 1 SD/HD/3G HD−SDI on a BNC connector, 1 HDMI (deep color) connector, 1 DGKat on an RJ−45 connector, 1 S/PDIF digital audio on an RCA connector, 1 unbalanced stereo audio on a 3−pin terminal block connector, 2x10W speaker amplifier balanced stereo audio on terminal block connectors.
COMPLIANCE WITH STANDARDS:	Supports HDMI (deep color) and HDCP; DisplayPort 1.1a.
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, 2048x1080@60Hz, 2048x1080@50Hz
CONTROLS:	Front panel buttons, OSD, IR remote control, RS−232 on a 9−pin D−sub connector, Ethernet, contact closure.
POWER CONSUMPTION:	100−240V AC, 56VA max.
OPERATING TEMPERATURE:	0° to +40°C (32° to 104°F).
STORAGE TEMPERATURE:	−40° to +70°C (−49° to 158°F).
HUMIDITY:	10% to 90%, RHL non−condensing.
DIMENSIONS:	19" x 9.3" x 1U (W, D, H) rack mountable.
WEIGHT:	2.5kg (5.5lbs) approx.
ACCESSORIES:	Power cord, rack "ears", IR remote control.

Audio Connections are not shown

HDMI
DVD Player 1 (HDMI)

VGA
Computer Graphics Source 1

CV
DVD Player 1 (Composite)

YUV
DVD Player (Component)

DP
Computer Graphics Source

SDI
Digital Camera

SDI
Display

To TP-572+

SDI
Display with Speakers

VGA
Analog Display

RS-232

SDI

HDMI
Plasma Display