



## VP-794

### 8-Input Universal Live Event Scaler/Switcher/Warp & Blend for Projection & LED Videowalls



The VP-794 is a high-performance switcher/scaler/edge-blend & warp for analog and digital video signals developed specifically for driving large screen displays and multiple screen applications from video or graphics sources. It up- or down-scales the incoming signal, processes the image with HQV and flexible warping, geometry correction and professional grade edge blending and outputs the signal to 3G HD-SDI, DVI/HDMI, VGA and S/PDIF connectors. VP-794 includes a special mode for driving LED video walls with pixel-accurate output image sizing.

## FEATURES

- **Optimized Operating Modes** - For LED video walls, or soft edge-blend and warp for projection, or scan conversion/scaling for general purpose scaler/switcher use.
- **Multi-Format Operation** - 3G HD-SDI, HDMI, DVI, computer graphics, component, composite and s-Video inputs for signals up 1080p & WUXGA.
- **Full Warp Mapping** - Easy warp map creation for stacked projector alignment and curved screen multi-projector tiling via an included PC application.
- **Powerful Geometry Correction** - For off-axis projection, pin/barrel and image rotation, pan, tilt and zoom.
- **Edge Blending** - 4-sided professional grade edge blend with 48-bit processing, degamma & multi-region black level correction.
- **HQV® Video Processing** - HQV (Hollywood Quality Video) processing represents the state-of-the-art in video processing technology, with the highest quality de-interlacing (with 3:2 & 2:2 pull down), 4D motion adaptive SD noise reduction and outstanding scaling performance for both standard-definition and high-definition signals.
- **HDTV Compatible.**
- **HDCP Compliant.**
- **Supported Resolutions** - HD 720p, 1080i, 1080psf (psf digital only), 1080p23.97/24/25/30, 1080p30, 1080p50, 1080p59.94, 1080p60; ED 480p, 576p (not via SDI); SD 625i (576i), 525i (480i); common VESA graphics formats from 640x480 to 1920x1200 (with reduced blanking for 1920x1200 and 1600x1200 modes).
- **LED Videowall Mode** - Superb video down-scaling to as low as 128x96 pixels.
- **Genlock (V-Lock)** - Accepts bi-level, tri-level sync or black & burst.
- **Selectable Lock Modes** - Genlock (V-Lock), I/O lock or frame rate conversion.
- **HDMI Support** - Deep color up to 12 bit.
- **Multi-Standard Support** - For CVBS & YC in PAL, NTSC, SECAM formats with selectable 3D comb for composite.
- **Superior De-interlacing** - Motion adaptive per pixel video de-interlacing with multi-directional diagonal de-interlace filter reduces HD & SD image flicker and artifacts.

- Live Image Capture - Logo/still/backdrop capture with full scale warp/blend of the captured image, 4 memories.
- Selectable Processing Versus Latency - Best picture and low latency modes; latency as low as 0.25-frame progressive inputs, 1.25-field interlaced inputs.
- Selectable Aspect Ratio Conversion - Or incoming aspect ratio preserve mode.
- Built-in Time Base Corrector - Stabilizes unstable video sources.
- Flexible Colour Calibration Controls - RGB Gains, RGB Cut-Off/Black Level, Saturation, Hue, Brightness, Contrast controls, Gamma selection with separate calibration memories per input channel.
- Audio De-embedding - From HDMI & 3G HS-SDI to S/PDIF compatible formats.
- Built-in Test Pattern Generator.
- USB Port - For upgrading firmware.
- Non-Volatile Memory - Auto-saves and recalls settings.
- Flexible Control Options - Front panel buttons, jog wheel and LCD menu display, RS-232, TCP/IP API and Web Server, PC-based Warp Map Generator tool.
- Setting Backup - Save complete system config to disk via Web browser interface to clone or restore units.
- Front Panel Lockout.
- Picture In Picture - In LED and scaler modes with flexible pixel-accurate PIP sizing.
- Worldwide Power Supply - 100-240V AC.

on a BNC connector.

OUTPUT: 1 SD/HD/3G HD-SDI on a BNC connector, 1 DVI/HDMI on a DVI connector, 1 VGA on a 15-pin HD connector, 1 S/PDIF on an RCA connector.

OUTPUT RESOLUTIONS: DVI/VGA common VESA formats 640x480 to 1920x1200, 720p, 1080p; 3G HD-SDI in SMPTE formats 480i, 576i, 720p, 1080i, 1080p with selectable audio embed.

OPERATING MODES: LED video wall, projection, scaler/switcher/scan converter.

MINIMUM LED VIDEOWALL 128X96 pixels.

SIZE:

PROJECTION MODE WARP Full Warp Mapping, 4-Corner, Rotate, Pin/Barrel, Portrait, Keystone.

APPS:

PROJECTION MODE EDGE 48-bit per pixel, 4:4:4 16-bit per color edge blend with de-gamma processing and BLENDING: multi-region black level correction.

LATENCY: As low as 0.25-frame progressive inputs, 1.25-fields interlaced inputs.

SIGNAL PROCESSING: 10-bit signal inputs, 12-bit accurate internal processing; 4-field full resolution SD & HD processing.

DE-INTERLACING: Motion adaptive per pixel video de-interlacing, multi-directional diagonal de-interlace filter.

POWER SOURCE: 100-264V AC, 35W typical.

OPERATING TEMPERATURE: 0° to +40°C (32° to 104°F).

STORAGE TEMPERATURE: -30° to +70°C (-22° to 158°F).

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

DIMENSIONS: 19" x 7.2" x 1U W, D, H, rack mountable.

WEIGHT: 2.5kg (5.5lb).

INCLUDED ACCESSORIES: DVI-D cable, user manual/CD, power cord.