



VP-794

Universal Rental/Staging/Events Scaler/Switcher with Scaling & Scan Conversion for LED Video Walls and Projection Systems



- **BEST IN CLASS PROFESSIONAL IMAGE PROCESSING IN A COMPACT AFFORDABLE 1U FORMAT**
- **FRONT PANEL JOG-WHEEL AND LCD DISPLAY FOR FAST EASY SET-UP IN THE FIELD**
- **USE AS A ROUTING SWITCHER AND UNIVERSAL INTERFACE FOR LED SCREENS, PROJECTORS, PLASMAS, LCDS AND GENERAL PURPOSE SCALING & SCAN-CONVERSION**
- **DIGITAL AND ANALOG VIDEO SUPPORT INCLUDING 3G HD-SDI, DVI, HDMI, VGA & VIDEO**
- **IMPROVE VIDEO IMAGE QUALITY WITH POWERFUL DETAIL AND SHARPNESS FILTERS**
- **SUPERIOR DE-INTERLACING & NOISE REDUCTION REDUCES IMAGE FLICKER AND ARTIFACTS**
- **COLOR CORRECTION OF ALL SOURCE TYPES INCLUDING RGB CONTROLS, SATURATION & HUE**
- **POWERFUL PICTURE RE-SIZING TO FIT LED SCREENS WITH SIMPLE EDGE DRAG AND DROP**
- **LED VIDEOWALL SIZES FROM 128X96 - 1920X1200 PIXELS**
- **GENLOCK AND I/O LOCK FOR IN-CAMERA AND EDGE BLENDING USE**
- **MULTI-FUNCTION UNIVERSAL PROCESSOR FOR FOR LED VIDEO WALL AND PROJECTION RENTAL**
- **PROJECTION MODE WITH WARP MAPPING, GEOMETRY CORRECTION & EDGE BLENDING**
- **POWERFUL GEOMETRY CORRECTION FOR OFF-AXIS PROJECTION, PIN/BARREL, IMAGE ROTATION CONTROLS**
- **4-SIDED SOFT EDGE BLEND FOR TILING MULTIPLE PROJECTORS TO PRODUCE LARGER IMAGES**
- **FLEXIBLE WARP MAPPING FOR CURVED SCREEN PROJECTION, SIMULATION AND 3D ALIGNMENT**





The VP-794 is a highly flexible universal events scaler/switcher with optimal operating modes for all live events, rental & staging and high-end ProAV purposes. It has dedicated LED Videowall, Projection and general Scaler-Switcher operating modes, each optimized differently for that application.

For LED videowalls the VP-794 provides stunning image quality for professional use, in applications such as broadcast, sports, digital signage & corporate AV. The VP-794 features 4-sided edge drag and drop for sizing the picture to fit the LED screen, making system configuration incredibly easy.

The VP-794 can be switched into Projection mode where it supports warp mapping and edge blending as well as advanced geometry correction including rotation and portrait mode extraction.

In this mode the VP-794 features 4-sided soft edge blending with multi-region black level correction for seamless blending of multiple projectors. It also includes flexible geometry correction functions to correct misshapen images and projector misalignment by dragging and dropping each image corner, pin/barrel rotation, or keystone and rotation.

Full warp mapping is also supported by the VP-794. A PC application is included for easy warp map creation. Third-party generated warp maps can also be processed from automatic image alignment systems.

In scaler/switcher mode the VP-794 becomes a universal, scaler/switcher and scan converter for live events, broadcast and high-end fixed-install applications.

Low image latency ensures minimal picture lag, which together with 3G HD-SDI I/O and bi-level or tri-level sync genlock capability makes the VP-794 ideal for on-stage or in-camera use at live events.

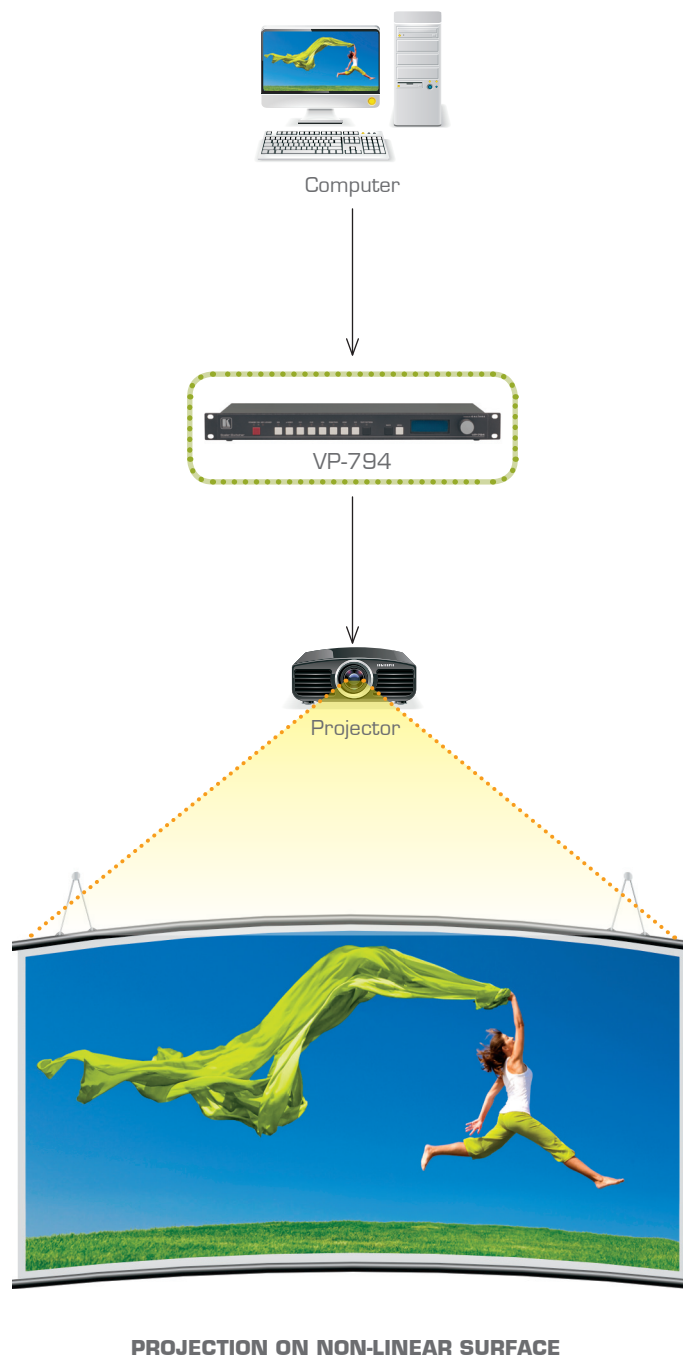
Configuration and remote control is a breeze via front panel LCD readout & convenient jog-wheel or via Web server for easy intuitive installation & control with no need for special software apps to be installed.

Technical Specification

INPUTS	2x Composite Video CVBS (NTSC, PAL & SECAM) 1x via BNC jack and 1x via Cinch/RCA 1x YC/S-Video via 4 pin mini DIN 1x Component analog video YPbPr(S) or RGsB/RGBS via 3 or 4 x BNC jack 1x HDMI with HDCP, 8/12 bit Deep Color compatible, 10-bit internal processing depth Audio strip-off of SPDIF compatible formats 1x DVI with HDCP 1x VGA Analog via 15HDD 1x 3G HD-SDI, accepts SD/HD/3G HD-SDI signals via BNC supports 4:2:2 and 4:4:4 formats with audio de-embed 1x Genlock (V-Lock) input via BNC, accepts bi-level, tri-level sync or black & burst, 50/59.94/60Hz formats
SUPPORTED VIDEO FORMATS	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) Multi standard support for CVBS & YC in PAL, NTSC, SECAM formats with selectable 3D comb for composite
OUTPUTS	1x DVI/HDMI with HDCP (HDMI with deep color 8/10/12 bit support, via DVI connector) 1x VGA Analog via 15HDD 1x S/PDIF digital audio via RCA 1x 3G HD-SDI via BNC NB: 3G HD-SDI and VGA Analog outputs are disabled with HDCP-encrypted input. Not all outputs are available simultaneously
SUPPORTED OUTPUT FORMATS	DVI/VGA common VESA/SMPTE progressive scan formats from 640x480 to 1920x1200, 720p, 1080p Selectable Genlock (V-Lock), I/O lock or frame rate conversion mode Selectable aspect ratio conversion Selectable VT filter for interlace flicker reduction in scan conversion and low latency modes Multiple unit mode for very large LED screens (PIP not supported in this mode)
USER CONTROLS	Front panel jog-wheel and LCD menu display for fast set-up Keypad for direct input selection Remote control via RS232, TCP/IP API and Web Server PC-based Warp Map Generator tool for projection map/warp/blend mode USB port for uploading software updates and new features
POWER REQUIREMENTS	100-264V AC, 35W typical
WARRANTY	3-years return to base warranty covers parts and labor, shipping excluded

MODEL	VP-791	VP-792	VP-793	VP-794
FRONT LCD MENU OR OSD CONTROL	OSD	OSD	OSD	LCD
DVI/HDMI INPUTS		●	●	●
COMPONENT INPUT		●		●
COMPOSITE/S-VIDEO INPUTS				●
VGA ANALOG INPUT		●		●
3G HD-SDI INPUT	●			●
DVI/HDMI OUTPUT	●	●	●	●
VGA ANALOG OUTPUT				●
3G HD-SDI OUTPUT				●
3G HD-SDI AUDIO EMBED/DE-EMBED				●
HQV PROCESSING	●	●	●	●
PIP/POP/PAP				●
PIP WITH PIXEL-ACCURATE SIZE & POSITION CONTROL				●
TCP/IP CONTROL	●	●	●	●
LOW LATENCY MODE	●	●	●	●
FLICKER FILTER FOR INTERLACED OUTPUT MODES				●
GEOMETRY CORRECTION, 4-CORNER, ROTATE, PORTRAIT MODE	●	●	●	●
GENLOCK (V-LOCK)				●
PAN, ZOOM, TILT	●	●	●	●
EDGE BLENDING		●	●	●
EDGE BLEND BLACK LEVEL CORRECTION			●	●
AUTO PAN/ZOOM/TILT OF CONTENT FOR BLENDING		●	●	●
WARP MAPPING FOR CURVED PROJECTION SCREENS & BLEND ALIGNMENT		●	●	●
LED SCREEN SIZING BY EDGE DRAG-DROP				●
LED SCREEN BLACK CRUSH CONTROL WITH LEVEL ADJUSTMENT				●

Diagram



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