VP-792

HQV™ Scaler with Warp Mapping & Edge Blending

- **BEST IN CLASS PROFESSIONAL IMAGE PROCESSING IN A COMPACT AFFORDABLE MODULE**
- **SUPERIOR DE-INTERLACING REDUCES IMAGE FLICKER AND ARTIFACTS**
- **REMOVES PICTURE NOISE FROM POOR QUALITY VIDEO SOURCES, IMPROVES IMAGE DETAIL**
- **POWERFUL GEOMETRY CORRECTION FOR OFF-AXIS PROJECTION, PIN/BARREL AND IMAGE ROTATION CONTROLS**
- **4-SIDED SOFT EDGE BLEND FOR TILING MULTIPLE PROJECTORS TO PRODUCE LARGE IMAGES**
- **FLEXIBLE WARP MAPPING FOR CURVED SCREEN PROJECTION, SIMULATION AND 3D ALIGNMENT**

VP-792

The VP-792 is a compact yet high performance image scaler with HDMI/DVI/Component/VGA input capability and HDMI/DVI output which provides stunning image quality for professional, broadcast and corporate AV users.

The VP-792 includes 4-sided soft edge blend for seamless blending of multiple projectors and flexible geometry correction functions able to correct image shape and projector misalignment by dragging and dropping each image corner, by pin, barrel, rotation, or by keystone and rotation.

Full warp mapping is also supported by the VP-792. A flexible and intuitive PC application is included for easy warp map creation. Third-party generated warp maps can also be processed from automatic image alignment systems.
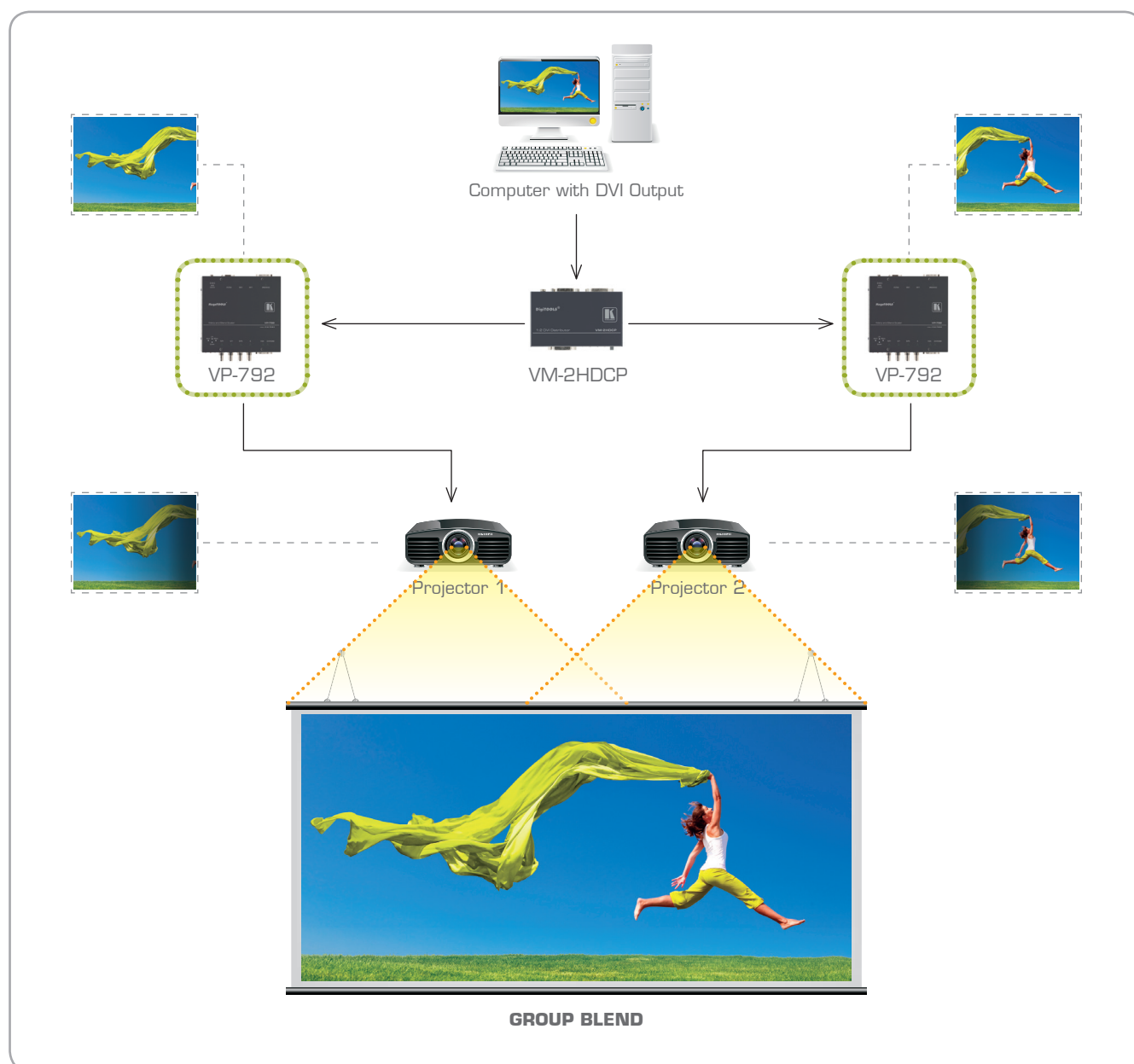

- HDMI, DVI, VGA Analog, Component inputs for signals up 1080p & WUXGA
- HDMI/DVI output up to 1080p/WUXGA
- Flexible color calibration controls
- Gamma controls
- 10-bit signal inputs, 12-bit internal processing
- Selectable processing versus latency: best picture and low latency modes
- Latency as low as 0.25-frame progressive inputs, 1.25-frames interlaced inputs
- USB port for in-field firmware updates
- Programmable customer logo on menu
- TCP/IP remote control and Web Server
- Easy to navigate self-explanatory OSD menus
- Motion adaptive per pixel video de-interlacing, HD & SD

- Multi-directional diagonal de-interlace filter
- Automatic 3:2 & 2:2 pull-down detection with automatic film/video/video over film detection
- Chroma and Luma transient improvement
- Edge anti-aliasing
- 4-field full resolution SD & HD processing
- 4D Motion, Noise Adaptive HQV noise reduction for spatial and temporal noise
- Codec noise reduction for mosquito and block compression noise
- Powerful geometry correction capabilities
- Image rotation, pin/barrel correction
- 4-sided soft edge blend
- Flexible warp mapping

Technical Specification

INPUTS	1x Component analog video YPbPr(S) or RGBS/RGsB via 3 or 4 x BNC jack
	1x DVI/HDMI with HDCP via DVI-I connector, supports HDMI with HDCP, 8/12 bit Deep Color compatible
	1x VGA analog via DVI-I connector (common with DVI/HDMI input)
SUPPORTED VIDEO FORMATS	HD 720p, 1080i, 1080psf (psf digital only), 1080p23.97/24/25/30, 1080p30, 1080p59.94, 1080p60
	ED 480p, 576p
	SD 625i (576i), 525i (480i)
	Common VESA graphics formats from 640x480 to 1920x1200 (with reduced blanking for 1920x1200 and 1600x1200 modes)
OUTPUTS	1x DVI/HDMI with HDCP
	(HDMI with deep color 8/10/12 bit support, via DVI connector)
SUPPORTED OUTPUT FORMATS	Common VESA formats from 640x480 to 1920x1200, 720p, 1080p
	Selectable I/O lock mode, or frame rate conversion mode
	Selectable aspect ratio conversion, or incoming aspect ratio preserve mode
USER CONTROLS	Remote control via RS232, TCP/IP & Webserver Control
	PC-based Warp Map Generator tool
	Keypad for OSD menu access
	USB port for uploading software updates and new features
POWER REQUIREMENTS	12VDC@approx 1.5A, external 100-265VAC PSU included
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

Computer with DVI Output

VP-792

VM-2HDCP

VP-792

Projector 1

Projector 2

GROUP BLEND