CALIBRE

HQView320

HQV™ Scaler with Projection Mapping Warp and Edge Blend

Harnessing the power of the Reon™ video processor running state of the art HQV algorithms with expertly designed hardware and firmware from Calibre, HQView320 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.

HQView320 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, or by pin, barrel, rotation, or by keystone and rotation.

Full warp mapping is also supported by HQView320. A flexible and intuitive PC application is included for easy warp map creation, or third-party generated warp maps can also be processed from automatic image alignment systems making HQView320 ideal for dual overlaid projector alignment in 3D projection systems.

- Best in class professional image processing in a compact affordable module
- Superior de-interlacing reduces image flicker and artefacts
- Remove picture noise from poor quality video sources, improve image detail
- Powerful geometry correction for off-axis projection, pin/barrel and image rotation
- 4-Sided soft edge blend for tiling multiple projectors to produce large images
- Flexible warp mapping for curved screen projection, simulation and 3D alignment

- 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

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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 HDMI1.3 with HDCP, 8/10/12 bit video 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 Versa graphics formats from 640x480 to 1920x1200 (with reduced blanking for 1920x1200 and 1600x1200 modes)

Outputs

1x DVI/HDMI with HDCP
(HDMI1.3 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 API and Web Server.
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
1-year return to base warranty covers parts and labor, shipping excluded.

HQView model >	100S	200S	210	300S	310	320	400S	410	420	500S	510	520
DVI/HDMI Inputs				x	x	x	x	x	x	x	x	x
Component Input				x	x	x	x	x	x	x	x	x
Composite/S-Video Inputs	x						x	x	x	x	x	x
VGA Analog Input				x	x	x	x	x	x	x	x	x
HD-SDI Input							x	x	x			
3G-SDI Input		x	x							x	x	x
DVI/HDMI Output	x	x	x	x	x	x	x	x	x	x	x	x
VGA Analog Output							x	x	x	x	x	x
3G-SDI Output										x	x	x
3G-SDI Audio embed/de-embed										x	x	x
HQV Processing	x	x	x	x	x	x	x	x	x	x	x	x
PIP/POP/PAP							x	x	x	x	x	x
TCP/IP Control	x	x	x	x	x	x	x	x	x	x	x	x
Low Latency Mode	x	x	x	x	x	x	x	x	x	x	x	x
Flicker Filter for Interlaced Output Modes										x	x	x
Geometry Correction, 4-Corner, Rotate			x		x	x		x	x		x	x
Genlock (V-Lock)										x	x	x
Pan, Zoom, Tilt	x	x	x	x	x	x	x	x	x	x	x	x
Edge Blending					x	x		x	x		x	x
Auto pan/zoom/tilt of content for blending					x	x		x	x		x	x
Projection Mapping/Warp						x			x			x

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