CALIBRE

HQView310
HQV™ Scaler with Edge Blend & Geometry Correction

Harnessing the power of the Reon™ video processor running state of the art HQV™ algorithms with expertly designed hardware and firmware from Calibre, HQView310 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.

HQView310 includes 4-sided soft edge blend for seamless blending of multiple projectors and includes 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. It also has an inbuilt portrait mode able to extract a portrait format image from a landscape input which it then automatically rotates by 90 or 270 degrees.

- Best in class professional image processing in a compact affordable module
- Connect Component or VGA to DVI or HDMI switching and distribution systems, projectors and displays without a component input
- Reprocess DVI/HDMI to improve image detail and quality
- Superior de-interlacing reduces image flicker and artefacts
- Remove picture noise from poor quality video sources
- 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

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- HDMI, DVI, VGA Analog, Component inputs for signals up 1080p & WUXGA
- HDMI/DVI output up to 1080p/WUXGA
- Flexible colour calibration controls
- Gamma controls
- 10-bit signal inputs, 12-bit accurate 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 and 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

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Inputs

1 x Component analog video YPbPr(S) or RGBS/RGsB via 3 or 4 x BNC jack
1 x DVI/HDMI with HDCP via DVI-I connector, supports HDMI with HDCP, 8/10/12 bit video compatible
1 X 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
(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 API and Web Server.
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

Model >	H210	H310	H320	H325	L530	H620	H625	H630	H670	H730	H770	L720	L725	L730	L770
Front LCD menu or OSD control	OSD	OSD	OSD	OSD	LCD	LCD	LCD	LCD	LCD	LCD	LCD	LCD	LCD	LCD	LCD
HDMI 4K Inputs						■(2)	■(2)	■(2)	■(2)	■(2)	■(2)	■(2)	■(2)	■(2)	■(2)
HDMI HD Input				■	■	■	■	■	■	■	■	■	■	■	■
DVI/HDMI HD Input		■	■	■	■	■	■	■	■	■	■	■	■	■	■
HDBaseT 4K Input								■	■		■	■			■
DisplayPort 4K Input						■		■		■			■	■	■
Component Input		BNCs	BNCs		BNCs	DVI-U	DVI-U	DVI-U	DVI-U	DVI-U	DVI-U	DVI-U	DVI-U	DVI-U	DVI-U
Composite Input(s)					■(2)	■	■	■	■	■	■	■	■	■	■
VGA Analog Input		DVI-I	DVI-I		■	■	■	■	■	■	■	■	■	■	■
3G-SDI Input(s)	■				■			■(2)	■(2)	■(2)	■(2)			■(2)	■(2)
DVI / HDMI HD Output	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
HDMI 4K Output					■	■	■	■	■	■	■	■	■	■	■
HDBaseT 4K Output								■			■		■		■
VGA Analog Output					■										
3G-SDI Output					■			■	■	■	■			■	■
3G-SDI Audio embed/de-embed & SPDIF					■			■	■	■	■			■	■
HQV Processing	■	■	■	■	■										
HQUltra 4K Low-Latency Processing						■	■	■	■	■	■	■	■	■	■
HQUltraFast High Speed Input Switching						■	■	■	■	■	■	■	■	■	■
PIP					■			■	■		■			■	■
TCP/IP Webserver & API Control	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
Geometry Correction, 4-Corner, Rotate	■	■	■	■	■										
Mesh-based Warp, config via PC App			■	■	■										
Genlock - V-Lock					■										
Genlock – H&V or Crosslock								■		■	■			■	■
Pan, Zoom, Tilt	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
Edge Blending		■	■	■	■										
Edge Blend Black Level Correction				■	■										
Videowall mode with auto PTZ		■	■	■	■	■	■	■	■	■	■	■	■	■	■
LED Videowall Per-Edge Sizing					■					■	■	■	■	■	■
Analogue Audio In, Out and Power Amp **Opt: option fitted to models with "A" suffix**						Opt	Opt	Opt	Opt	■	■				
Streaming Video Input via Network Port **Opt: option fitted to models with "SV" suffix**						Opt	Opt	Opt	Opt	■	■	Opt	Opt	Opt	Opt

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