

## HQView210

### HQV™ 3G-SDI to DVI/HDMI Scaler with Powerful 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, HQView210 is a compact yet high performance dedicated 3G-SDI to HDMI/DVI image scaler which provides stunning image quality for professional, broadcast and corporate AV users.

HQView210 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 3G-SDI to DVI or HDMI switching and distribution systems
- 3G-SDI, HD SDI and SD-SDI compatible
- Interface video to projectors without SDI input
- Improve video image quality with better detail and clarity
- 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
- Portrait mode image extraction & rotation from landscape input

- 3G-SDI input for 4:2:2 signals up to 1080p
- 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
- 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

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#### Inputs

1 x 3G-SDI with active cable EQ, accepts 3G, HD and SD SDI 4:2:2 format signals via BNC

#### Supported video formats:

HD 720p, 1080i, 1080psf, 1080p23.97/24/25/30, 1080p30, 1080p50, 1080p59.94, 1080p60  
SD 625i (576i), 525i (480i)

#### 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, and HD formats at 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 direct input selection and OSD menu access  
USB port for uploading software updates and new features

#### Power Requirements

12VDC@approx 1.5A, external 100-264VAC PSU included

#### Warranty

3-years return to base warranty covers parts and labor, shipping excluded

| HQView model >                             | 100S | 210 | 310 | 320 | 325 | 400S | 420 | 500S | 520 | 530 |
|--------------------------------------------|------|-----|-----|-----|-----|------|-----|------|-----|-----|
| Front LCD menu or OSD control              | OSD  | OSD | OSD | OSD | OSD | OSD  | OSD | OSD  | OSD | LCD |
| DVI/HDMI Inputs                            |      |     | x   | x   | x   | x    | x   | x    | x   | x   |
| Component Input                            |      |     | x   | x   |     | x    | x   | x    | x   | x   |
| Composite/S-Video Inputs                   | x    |     |     |     |     | x    | x   | x    | x   | x   |
| VGA Analog Input                           |      |     | x   | x   |     | x    | x   | x    | x   | x   |
| HD-SDI Input                               |      |     |     |     |     | x    | x   |      |     |     |
| 3G-SDI Input                               |      | x   |     |     |     |      |     | x    | x   | x   |
| DVI/HDMI Output                            | x    | x   | x   | x   | x   | x    | x   | x    | x   | x   |
| VGA Analog Output                          |      |     |     |     |     | 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   |
| PIP/POP/PAP                                |      |     |     |     |     | x    | x   | x    | x   | x   |
| TCP/IP Control                             | x    | x   | x   | x   | x   | x    | x   | x    | x   | x   |
| Low Latency Mode                           | 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   |
| Edge Blending                              |      |     | x   | x   | x   |      | x   |      | x   | x   |
| Edge Blend Black Level Correction          |      |     |     |     | x   |      |     |      | x   | x   |
| Auto pan/zoom/tilt of content for blending |      |     | x   | x   | x   |      | x   |      | x   | x   |
| Warp Mapping                               |      |     |     | x   | x   |      | x   |      | x   | x   |

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