

# HQView400DC

## HQV™ Digital Cinema Alternative Content Scaler-Switcher



Harnessing the power of the Reon™ video processor running state of the art HQV™ algorithms with expertly designed hardware and firmware from Calibre, HQView400DC is a highly flexible digital cinema alternative content scaler-switcher which gives stunning image quality from consumer and professional AV sources, providing flexible connectivity and a compact 1U form factor.

HQView400DC is specifically optimized for use with digital cinema projectors.

- Digital Cinema alternative content image processor in a compact 1U format
- Use as a routing switcher and universal interface
- Improve video image quality with better detail and clarity
- Superior de-interlacing reduces image flicker and artefacts
- Optimized for integration with digital cinema projectors
- Lower cost alternative to Calibre's PVProHD-DC super-premium alternative content processor

- HDMI, DVI, VGA Analog, Component YPbPr, RGsB/RGBS, Composite, S-Video & HD-SDI inputs with signal compatibility up to 1080p & WUXGA
- HDMI/DVI & VGA Analog outputs
- 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
- PIP (Picture in Picture), POP (Picture on Picture), PAP (Picture alongside Picture)
- Direct input selection keys allow input selection without using menu system
- Flexible color 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
- Compatible with alternative content DVI or HDMI input on digital cinema projectors

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## HQV™ Digital Cinema Alternative Content Scaler-Switcher

### 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, 8/10/12 bit video compatible,  
 10-bit internal processing depth. Audio strip-off of  
 SPDIF compatible formats  
 1x DVI with HDCP  
 1x VGA Analog via 15HDD  
 1 x HD-SDI, accepts SD and HD SDI signals via BNC

### 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  
 NB: VGA Analog output is disabled with HDCP-encrypted input

### Supported Output formats:

Primary output mode is 1920x1080 optimized for alternative content  
 input of digital cinema projectors  
 Also supports 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

### User Controls

Keypad for direct input selection, control of common adjustments  
 and OSD  
 Remote control via RS232, TCP/IP API and Web Server  
 USB port for uploading software updates and new features

### Power Requirements

100-264VAC, 30W typical

### Warranty

3-years return to base warranty covers parts and labor

*Users should also consider HQView630 and HQView670 from the HQUltra range with 4K capability including 4096x2160 and 2048x1080 input and output support.*



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