

PremierViewProHD-AV

New

From Calibre

Professional HD HQV Image Scaler for PROJECTION



PremierViewProHD-AV features true broadcast grade image processing using "HQV by Teranex" algorithms on Silicon Optix award-winning Realta chip, optimized and especially configured for Projection screen requirements by Calibre. Superb scaling, broadcast grade de-interlacing, outstanding noise reduction and image enhancement and all the features and control ability expected from a Calibre image processing product combine to make this the best *PROJECTION* image scaler you can buy.

Video image stability and motion performance are outstanding with per pixel motion adaptive de-interlace for SD and HD. Per pixel motion adaptive noise reduction and image enhancement techniques not only improve HD sources but can make SD sources virtually indistinguishable from HD for projection.

A very high performance 10-bit video decoder is utilised with 2x over sampling and super-adaptive comb filter for outstanding video image clarity.

HD, ED and SD component video in YPbPr or RGBS format and VGA graphics are supported via 12-bit ADCs.

HD-SDI and SD-SDI are supported with automatic cable EQ and full broadcast grade hardware implemented EQ, clock recovery and de-serializer for best possible stability and signal integrity.

HDMI and DVI inputs provide compatibility with HDMI 1.3 and DVI sources with or without HDCP, with regular 8-bit or 10-bit deep color support from HD and SD disc players and media management systems.

Color temperature, gains and cut-offs are adjustable with 10-bit accuracy. Gamma control is provided and applied with 10-bit accuracy with internal processing up to 16 bits to alleviate gray-scale contouring and improve image rendition.

Zoom, pan and tilt functions are also available to display a particular area of interest.

Several output modes can be chosen: Genlock to component, SD/HD-SDI or DVI/HDMI with broadcast-grade output stability and extremely fast lock time, Video I/O Track where the processor will automatically switch between 50Hz and 59.94Hz depending on the input signal type, I/O Lock to 50Hz/59.94Hz/60Hz where the output accurately locks to the input and Free Run mode where input and output are asynchronous. All modes include frame buffering for time-base synchronisation. 24Hz or 48Hz output is also selectable for 24p or 24sfp HD sources.

Various levels of processing can be chosen for best picture quality and image enhancement, lowest latency or a combination. Audio time-line is automatically corrected for video processing delays, via a versatile range of audio input and output connections.

PERFECTION for PROJECTION **Stunning images with** **HQV processing**

- ? **Stunning HD performance with near-HD quality from SD**
- ? **Analog and Digital inputs including HDMI1.3 and HDSDI**
- ? **Extreme Keystone correction, Image Flip L/R/U/D**
- ? **Picture in Picture (PIP)**
- ? **Color and gamma controls**
- ? **Automatic Audio Time Line correction**
- ? **2D image detail enhancement and sharpness control.**
- ? **Broadcast grade motion adaptive SD & HD de-interlacer with 3:2, 2:2 and non-standard/variable cadence detection**
- ? **Temporal/film noise filtering HD & SD**
- ? **MPEG noise reduction for SD**
- ? **Genlock, Video I/O lock and I/O Track**
- ? **Seamless Switching**



Outputs are available in VGA analog and DVI digital formats, both of which can support up to 10-bit signal depth. For non-HDCP input signals both outputs can be used simultaneously so that one output can drive the projector while the other runs a local monitor for applications where the projection screen is not visible from where the scaler is situated. (Note: Due to HDCP rules, the VGA output turns off when an HDCP signal is being displayed).

System control is via a front-panel LCD menu controlled using rugged front panel keys with inbuilt status indication Projections.

Four user-programmable fast input select keys are provided together with "live feed" indication via the Input status key.

Remote control is provided via TCP/IP or RS232, for which an intuitive 'Windows' application is provided.



CALIBRE
CREATING TECHNOLOGY

PremierViewProHD-AV

INPUTS

1x HDMI 1.3 with audio, HDCP compatible, 10-bit capable
1x DVI-D, HDCP compatible
1x HD-SDI (SD-SDI compatible)
2x Composite Video via BNC (NTSC/PAL/SECAM)
2x S-Video via MiniDIN (NTSC/PAL/SECAM)
2x Component video YPbPr/YPbPrS/RGB/RGBS HD/ED/SD via BNCs
1x SVGA via 15HDD

2x SPDIF coaxial digital audio via RCA
2x Toslink fiber-optic audio
4x Stereo analog audio pair via 2 RCAs

GENLOCK

Genlock to house sync, component input, HDMI/DVI, SVGA or HDSDI.

(NB DVI cannot be used for genlock if HDMI is displayed and vice-versa.)

OUTPUTS

1x DVI-D, HDCP compatible, 10-bit HDMI 1.3 capable
1x SVGA via 15HDD
1x SPDIF coaxial digital audio via RCA
1x Toslink fiber-optic audio
1x Stereo analog audio pair via 2 RCAs

DISPLAY MODES 640x480, 800x600, 852x480, 853x480, 1024x768, 1280x720, 1280x768, 1024x1024, 1360x768, 1365x768, 1366x768-1, 1366x768-2, 1368x768, 1400x768, 1366x1024, 1400x1050, 1600x1200, 1920x1080, 1920x1200, 1920x1600, 2048x1080 and custom modes configurable via PC software.

USER CONTROLS

Control/Ports

Front panel controls with character LCD display
4 user configurable presets
Programmable soft keys for faster input switching
Remote control via RS232 serial port
Remote control via TCP/IP
IR remote control (optional)
USB port for firmware update
PC control software included

Signal Paths

10-bit ADCs for composite, S-Video
12-bit ADCs for component video
10-bit HDMI, 8-bit DVI support
10-bit HD/SD-SDI

Modes of Operation

(1) Full image processing and filtering, with or without I/O frame rate tracking, or I/O lock mode. *(NB I/O lock mode only supported on DVI-D output, not SVGA output)*
(2) Low latency mode with reduced processing

Power

Integral PSU, 100-240VAC 50/60Hz, power via IEC connector.
Rear-mounted power switch.
Front standby/on control key.
Fan cooled for installation into equipment racks

Mounting Information

Extremely rugged, professional 19" (2U) Rack case with carrying handles. Case colour : Black

Impressive Image Processing features

- ✍ Chroma improvement processing with CCS, CUE, ICP filtering
- ✍ Motion Adaptive adjustable TNR (temporal/film noise) filtering - HD & SD
- ✍ Motion Adaptive adjustable CNR (MPEG spider and block noise) filtering - SD
- ✍ 4-field per-pixel motion adaptive de-interlace with MDDF (*multi-directional diagonal filtering*) - HD & SD
- ✍ 3:2, 2:2 and non-standard cadence pull-down correction with automatic adaptation to non-standard and broken cadences.
- ✍ Frame-rate conversion
- ✍ 2D image detail enhancement and sharpness control HD & SD
- ✍ Color gain and cut-offs adjustment – HD & SD
- ✍ Gamma selection – HD & SD
- ✍ Aspect ratio conversion – HD & SD
- ✍ Picture in Picture (PiP)
- ✍ Audio timeline correction automatically adjusts for video processing delay
- ✍ Per input channel, per signal type parameter storage and automatic configuration.
- ✍ Uses Silicon Optix Realta with HQV by Teranex video processing
- ✍ Seamless switching
- ✍ Zoom, pan and tilt function
- ✍ Extreme keystone correction
- ✍ Image flip left-right, up-down
- ✍ Programmable image warping (optional extra)
- ✍ Edge-Blend upgrade (optional extra)

Warranty

3-year return to base warranty covers parts and labour, shipping excluded.

Calibre UK operates a QA programme compliant with ISO9001:2000

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