

PremierViewProHD-DC

HD & SD Post Production Grade Digital Cinema Alternative Content Processor

PVProHD-DC is a premium video scaler & processor with a true uncompressed 2K signal path optimized for Digital Cinema Alternative Content projection requirements and designed to be compatible with the Sony SRX-R320, R220, R210 and earlier R110 digital cinema projectors. It is designed to be installed into the secure cabinet together with the existing media block/server.

PVProHD-DC is also compatible with all other vendors' digital cinema projectors which have a DVI or HDMI alternative content input channel.

PVProHD-DC provides a means for alternative content material to be displayed from professional and consumer content HD and SD sources such as DVD, satellite/cable receivers, Betacam, Digibeta, PC/media servers, videogames and hard disk recorders, BluRay plus most other sources.

Video image stability and motion performance are outstanding with per pixel motion adaptive de-interlace for SD and HD. 3:2, 2:2 and non-standard cadence pull-down correction is supported with automatic adaption to non-standard and broken cadences. Video, film and video over film content is automatically processed.

Per pixel motion adaptive noise reduction and image enhancement techniques not only improve HD sources but can make SD sources near-HD quality for large screen projection.

Inputs include HD-SDI/SD-SDI, HDMI with deep color support, DVI, 2x YPbPr/RGBS component, 2x Composite, 2x S-Video/YC and a VGA RGBHV input.

Pan, Zoom and Tilt functions allow display of a particular area of interest. Color calibration is supported with color gains and cut-offs adjustable at 10-bit accuracy.

All modes include frame buffering for time-base synchronization. Automatic 24Hz or 48Hz output is also selectable for 24p or 24sfp HD sources.



- Stunning HD performance with near-HD quality from SD
- Image Warping for stacked 3D dual-projector alignment
- Picture in Picture (PiP)
- Color and Gamma controls, RGB Gain and Cut-off calibration
- Automatic Audio Delay Correction for video processing delay
- Aspect Ratio Conversion
- Input supports up to 1080p & 2K @ 23.97p, 24p, 24psf, 50i/p, 59.94i/p, 60i/p
- Output supports up to 1080p & 2K @ 23.97p, 50p, 59.94p, 60p
- 2D detail enhancement, sharpness control, real-time unsharp mask
- Post-production grade motion adaptive SD & HD de-interlacer with 3:2, 2:2 and non-standard/variable cadence detection, with video, film and video over film support
- Per-pixel motion adaptive temporal/film noise filtering HD & SD
- MPEG2 noise reduction for SD
- Genlock, Video I/O lock and I/O Track
- Digital and Analog inputs, DVI, HDMI1.3 deep color, HDSDI, Component, Composite, S-Video, VGA
- Geometry correction with 4-corner warping/pinning
- Low-latency mode for videogames
- Clean Input Switching

- Processing mode can be chosen per input per signal format for best picture quality and image enhancement for showing movies or television/off-air sources or for low latency mode for videogames. Audio delay is automatically corrected for video processing delays, via a versatile range of audio input and output connections.
- Connection to the digital cinema projector is via the alternative content (auxiliary) DVI input.
- Remote control over TCP/IP is supported with a PC-based remote control application or via API. This is ideal for PVProHD-DC units which have been installed into the secure projector cabinet housing the media block/server.
- Four user-programmable fast input select keys are provided together with "live feed" indication via the input status readout on the front LCD

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Inputs

- 1x HDMI1.3 with audio & deep color, HDCP compatible
- 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 YPbPr/YPrR/RGB/RGBS HD/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 via component input, HDMI/DVI, SVGA or HDSLI. (NB DVI cannot be used for genlock if HDMI is displayed and vice-versa.)

Outputs

- 1x DVI-D, HDCP compatible, HDMI1.3 deep color capable, dual-function output automatically switches between DVI, HDMI or HDMI1.3 depending on display device connected.
- 1x SVGA via 15HDD (NB: SVGA is blanked when the HDMI or DVI input is HDCP encrypted, this is due to HDCP licensing rules).
- 1x SPDIF coaxial digital audio via RCA
- 1x Toslink fiber-optic audio
- 1x Stereo analog audio pair via 2 RCAs

Display Modes Pre-defined automatic output configuration enabled by menu selection of 320/220/210 or 110 series Sony projector type, or generic 1080p or 2K projectors



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 TCP/IP or RS232
- PC remote control software included
- USB port for firmware update
- Warp Generator PC tool for image warping alignment, also compatible with third party 3D stacked projector auto-alignment systems

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 or Genlock mode.
- (2) Low latency with reduced processing, per-ip-per-signal selectable.

Power

- Integral PSU, 100-240VAC 50/60Hz, power via IEC connector.
- Rear-mounted power switch, front standby/on control key.
- Premium-grade cooling fan for reliable installation in equipment racks

Mounting Information

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

Warranty

3-year return to base warranty covers parts and labor, shipping excl.

Part Code

PVProHD-DC

Note: for fully featured operation with Sony R320/220/210/110 projectors a security key must be obtained from Calibre and loaded into PVProHD-DC using a laptop and USB cable. This must be done following installation of PVProHD-DC into the projector's secure cabinet.

Key Features	Inputs	Front Controls	Remote Control	Processing	Motion Adaptive Noise Reduction	Real-time Unsharp Mask	Audio Follow Video	24p Output Support, 2K in and Out Support
HQView400DC	DVI, HDMI, 2xComposite, 1xSVideo, 1xComponent, 1xVGA, 1xHD-SDI	OSD based with direct input select keys	TCP/IP based web server or TCP/IP & RS232 based API	IDT-HQV on ReonVX video processor	SD only			No
PVProHD-DC	DVI, HDMI, 2xComposite, 2xSVideo, 2xComponent, 1xVGA, 1xHD-SDI	Front panel LCD, user definable input select keys with signal status indication	TCP/IP or RS232 based remote control application and API	Realta professional image processor running post-production grade HQV real-time algorithms using 1Tflop TVP DSP	HD & SD up to 1080i50/60 and 1080p24 max	HD & SD up to 1080i50/60 and 1080p24 max	Analog, digital and optical audio support, user definable automatic audio routing	Yes

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