



Calibre launches powerful new professional projection video processors for edge blending and warping at ISE2009

Booth 1H102

Calibre's PremierViewProHD-EB and PremierViewProHD-IW are true studio grade video processors aimed firmly at professional large venue projection and simulation applications. With post-production grade video processing algorithms, highly flexible connectivity and unrivalled image quality and configuration flexibility, the PremierViewProHD range provides an exceptional level of functionality and performance at an affordable price point.

PVProHD-EB provides outstanding edge blending performance and adjustability using Calibre's proprietary algorithms which allow precise control of blend S-curve, gamma and blend region widths and can work with 1, 2 3 or 4 blended edges. Black level correction is also provided with per-area control of up to 9 regions with 10-bit adjustment granularity and internal 16-bit processing to ensure clean images without noise or greyscale banding.

Automatic pan/zoom/tilt can be enabled to allow correct image area selection by simply configuring each scaler's x & y location within the overall blended image, or this can be disabled for manual configuration or for use with multi-head graphics cards.

PVProHD-IW performs real-time image warping with a highly intuitive and flexible PC-hosted user interface which allows easy to configuration of warping for projection onto curved screens and complex shapes including live update of warp parameters for fast fine-tuning of system configuration on-site.

Image warping is performed in real-time using the Silicon Optix Realta processor together with proprietary warp generation software from Calibre. This allows the warp configuration to easily be set up from a laptop or PC to suit the display screen, then PVProHD-IW automatically recalculates warp parameters as required to suit input resolution changes, aspect ratio, height, width and overscan adjustments without the need to load a new warp map for each input configuration or change and without need for the PC or laptop to remain connected. The warp performance, flexibility and image clarity far exceed that provided by typical competitor solutions.

All PVProHD models give unrivalled video image stability and motion performance with 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.

HD-SDI and SD-SDI are supported with automatic cable EQ and full broadcast grade hardware implemented EQ, clock recovery and de-serialiser for optimum stability and signal integrity. HDMI and DVI inputs provide compatibility with HDMI 1.3 and DVI sources, with deep colour support from HD and SD disc players and media management systems. Studio grade analog signal processing is also provided for compatibility with legacy signals such as composite, S-Video and component video as well as VGA from games consoles, for which there is a special low-latency image processing mode. Internal real-time processing takes place at bit depths up to 16-bit to avoid greyscale banding and avoid quantisation noise generation. Automatic audio delay is included to ensure audio-video lipsync after image processing.

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