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## **New 1080p High Definition Video Scaler/Processor from Calibre UK Features Realta™ HQV 10-bit Image Processing For Projectors, Plasmas or LCD Displays**

- *Innovative Passive Cooling System Eliminates System Fan Noise*
- *Updated Algorithms for 1080p24 and enhanced Blu-ray™ compatibility*

September 5, 2007 - DENVER: A new version of the Vantage HD high definition video scaler/processor from Calibre UK, Ltd. features updated algorithms for 1080p24, expanded Blu-ray™ disc player compatibility plus an advanced passive cooling device to eliminate system fan noise. Designed and manufactured by Calibre UK, Ltd., Bradford, England, the new VantageHD2 processor will be available beginning September 2007 for an MSRP of \$3299.

Calibre UK Ltd. will demonstrate the new Vantage HD-2 at CEDIA 2007, here, at booth 974

The new Vantage HD2 1080p video processor/scaler device accepts nine different input video signals to create a native-resolution video output signal for a high-definition plasma, projector or LCD display. Like the original VantageHD processor, the new VantageHD2 incorporates Silicon Optix's most powerful video processing chip, the Realta HQV™ sxT2, and its most sophisticated Teranex™ video processing algorithms. The Realta™ HQV imaging chip can execute more than one trillion instructions per second (1 teraflop). Vantage features 30-bit 4:4:4 scaler data bus-width, 12-bit component video analog/digital converters plus a studio-quality, 10-bit video decoder with super-adaptive comb filter and 4 x ITU656 over sampling.

“Building upon the powerful Realta HQV standard reference design, Calibre UK has invested more than 20 man-years of additional custom hardware and software engineering to make dramatic improvements in image quality and overall system performance and flexibility,” said Tim Brooksbank, CEO, Calibre UK, Ltd. “The VantageHD2 out performs all competitor devices providing a level of quality previously only found in high-end studio facilities and even significantly outperforming other HQV implementations.”

To achieve superior image quality from interlaced video sources, the VantageHD2 uses a true pixel-based motion-adaptive approach. Unlike conventional frame-based image processing, Calibre's software simultaneously analyzes four video fields. This method avoids artifacts in moving objects and preserves full resolution of non-moving portions of the screen even if neighboring pixels are in motion. Calibre's per-pixel motion-adaptive approach also enables superior noise reduction compared to conventional video noise reduction filters.

The Vantage HD2 processor handles film-based material with full and automatic detection of all pull-down cadences including broken cadences and non-standard cadences typically found in animation sequences, as well as the common 3:2 and 2:2 formats, all with automatic scene change detection to ensure clean cuts between scenes and the ability to process mixed scenes where film and video are overlaid.

VantageHD2 has three output modes to optimize picture quality for plasma, LCD or projection displays (with image warp and keystone correction).

The VantageHD2 has two HDMI inputs supporting up to 1080p (with support for up to 7.1 digital audio and backwards capability with DVI), two composite video and two component analog video (YPbPr or RGBS SD, ED or HD signals) compatible with 480i (NTSC), 576i (PAL/SECAM), 480p, 576p, 720p and 1080i as well as 1080psf.

The processor also features digital and analog audio inputs that can be matched to the signal inputs, allowing audio and video signals to be switched via the same device. VantageHD2 automatically adjusts the audio time-line to suit its internal video processing delay. Audio time-line correction operates on all audio channels—digital coaxial, digital fiber-optic, analog and HDMI audio channels.

About Calibre UK, Ltd.

Founded in 1988, Calibre UK Ltd. is a world-leading designer and manufacturer of high performance video displays and video processing technologies. The company supplies precision LCD displays and high-quality image scaling/processor devices for aerospace, military surveillance, surgical/medical, home theater and professional video applications. The company employs 30 software developers, video engineers and related professionals in its Bradford, England headquarters. [www.calibreuk.com](http://www.calibreuk.com)

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