

Calibre launches powerful new VideoExcel broadcast video processor at IBC2009

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The European launch of Calibre's new **VideoExcel** product range at IBC2009 makes true broadcast grade format conversion and image enhancement affordable.

Usually Calibre products are found in live broadcast and on-stage large screen applications but now that same technology has been leveraged to provide best in class solutions for broadcast transmission image processing.

The first model **VXL-100HD** is a powerful frame synchronizer with up/down/cross conversion from SD>HD, HD>SD and HD>HD with per-pixel motion adaptive processing including very powerful 4-field de-interlace algorithms and highly flexible variable film cadence detection.

Real-time per-pixel motion adaptive temporal and film noise reduction is provided as standard, as is SD MPEG2 codec noise reduction for removal of mosquito and block artefacts. **VXL-100HD's** temporal noise reduction algorithms can considerably improve CODEC efficiency for digital broadcast and substantially reduce file sizes for IPTV, but without the usual loss of detail or motion blur typically associated with noise reduction.

Powerful image enhancement techniques including a real-time unsharp mask process produce near-HD quality from SD and can greatly enhance poor quality or noisy HD footage.

Unlike key competitors **VXL-100HD** includes format conversion and noise reduction within the base price.

Standard features include 3G SDI, DVI/HDMI and YPbPr Component connectivity in and out, multistandard Composite & YC/S-Video inputs with selectable 3D comb filtering, broadcast grade timing stability using a temperature controlled timing generator, Genlock to bi-level, tri-level or 3G SDI digital house sync.

Backwards compatibility with HD SDI and SD SDI is of course provided. Dual redundant power supplies are included for compatibility with dual power grids and with a selectable alarm feature to warn of PSU failure. User control is via a large clear front panel LCD menu, or RS232 or TCP/IP.

Audio de-embed and re-embed from and to 3G SDI, HD SDI & SD SDI is standard, as is AES digital audio support. An inbuilt audio delay feature automatically corrects the audio for delays caused by **VXL-100HD's** internal video processing. This audio delay can be user-increased by up to several seconds or the video output can be delayed several frames to re-synchronise audio to video where the source material has an inherent audio-video mismatch.

Future options on later models now in development include VBI data processing, timecode processing and a full motion compensated frame rate/standards converter.

VXL-100HD uses true studio grade video algorithms hosted on the acclaimed Realta video processor chip. It is aimed firmly at professional broadcasters, studios and post-production houses. With best in class video processing algorithms, highly flexible connectivity and unrivalled image quality and configuration flexibility, the **VideoExcel** range provides an exceptional level of functionality and performance at an affordable price point.

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