

Press Release

Calibre responds to pixel explosion with launch of HQUltra4030 seamless scaler-switcher

New high performance platform more than doubles number of scaling channels, adds seven multi-layer PiPs/layers

Bradford, Yorkshire, UK, 6 February 2018 - At ISE 2018 (Stand 1-N70) Calibre UK, which has been part of Coretronic since August 2017, is launching the HQUltra4030 seamless scaler-switcher, bringing new levels of functionality and performance to the HQUltra4000 series.

The new scaler-switcher is able to support up to 40 sources grouped into 23 discrete input channels, with four programme outputs plus an independent confidence monitor output. The HQUltra4030 delivers perfect 4K/UltraHD scaling via Calibre's proprietary, best-in-class low-latency HQUltra technology, with all programme outputs capable of simultaneously supporting up to 4K50/60 4:4:4 RGB formats. Calibre's unique HQUltraFast technology seamlessly delivers typical input channel switching of 0.25 seconds in matrix switching with dissolve and fade transitions.

The HQUltra4030 delivers up to 8K total programme output pixel area (over 44 Megapixel total output area) with 90GB/s output processing bandwidth.

"Our industry is undergoing a pixel explosion," said Mr. Willy Tsai, Executive Vice President at Calibre UK. "Not only are we migrating to UltraHD from HD – and 8K is on the horizon – but more screens are being deployed, especially in LED videowall configurations. Those LED screens are getting finer and finer in pixel pitch but the size of the actual screen is remaining static so the total number of pixels per screen is growing exponentially with many LED screens now significantly exceeding 4K total resolution. That creates huge content management challenges. The HQUltra4030 responds to that proliferation of pixels, proving a breadth of functionality and a level of performance that is simply unequalled in the industry."

The newly-launched HQUltra4030 models provide all the functionality and performance of the base HQUltra4000 models, but more than doubles the number of scaling channels to 12 – four main, seven multi-layer PiPs/layers in total as well as a scalable background layer for each channel. The HQUltra4030S additionally provides eight 12G-SDI input channels and four 12G-SDI outputs, while the HQUltra4030FS supports SFP+ 12G-SDI optical I/O.

The HQUltra4030 can drive any type of video display device, including projectors, LCDs and LEDs in any fixed installation or rental/staging environment. It is also ideal for the growing number of videowall installations with its custom LED videowall menus that allow users to quickly and pixel-accurately size any input source on the wall. The scaled image can be distributed across all four outputs, perfectly aligned and synchronised, allowing the HQUltra4030 to drive a programme surface area (whether for separate displays or a single videowall) up to true 8K/QuadUHD - an incredible 8192x4340 pixel area.

Standard input connectivity includes HDMI, DisplayPort, DVI, VGA, Composite, RGB and H.264 HD streaming video, while front panel HDMI-in and USB connectors make for easy access.

ISE 2018 is Calibre's first ISE as a subsidiary of Coretronic, which manufactures the largest number of DLP® projectors in the world, and is the ODM supplier to the majority of the world's Tier 1 DLP projector brands.

The acquisition of Calibre in 2017 expands Coretronic's technology capability by the addition of Calibre's compelling range of class-leading HQUltra image processing technology and in-house R&D capabilities.

ENDS

About Calibre

Multi-award winning British company, Calibre has over the past 30 years achieved world recognition providing image scaling and processing technologies for use in broadcast/television, digital cinema, medical, large venue projection, LED videowalls. Calibre manufactures products under its own brand-names as well as providing products and technology to several market leaders in the Pro-AV market worldwide. Calibre is a market leader in innovation, utilizing its own, UK & Germany-based in-house hardware and software design teams for all its product developments and its own UK manufacturing.

Some useful links:

Twitter: @CalibreProAV

Website: www.calibreuk.com

About Coretronic Corporation

Coretronic Corporation (Coretronic) was established in Hsinchu Science Park on June 30, 1992. Coretronic is a DLP projectors, interactive projection system, projection module, LCD backlight module, Touch module, industrial and medical LCD display, commercial LCD display manufacturer in Taiwan.

Coretronic generated US\$1,768.7 million in sales revenue in 2016 and now has about 17,000 employees throughout its global operations spreading across Taiwan, Mainland China, the United States, and Europe.

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http://www.calibreuk.com/images/press_images

新闻稿

Calibre 发布最新 HQUltra4030 无缝缩放切换器，以满足市场对更高像素之需求

最新操作平台和主板，新增缩放频道，及七个多图层 PiPs

2018 年 2 月 6 日英国约克郡，布莱德福特 – Calibre UK 将在 2018 年 ISE 展会上强力推出最新 HQUltra4030 无缝缩放切换器，为其 HQUltra4000 系列产品增添更多光彩。Calibre 于去年 8 月正式成为中强光电集团子公司，此次展位位于 1-N70。

该新款缩放切换器支持多达 40 个输入源，具备 23 个独立输入频道，4 个独立输出以及 1 个预监输出。HQUltra4030 基于 Calibre 顶级独有的 HQUltra 低延迟 4K/超高清图像处理技术对画面进行完美缩放，所有输出频道可同时支持至 4K 50/60Hz 4:4:4 RGB 格式。其特有的 HQUltraFast 技术可使不同输入在 0.25 秒内完成无缝切换，同时也具备淡入淡出功能。

单台 HQUltra4030 可支持至 8K 输出（超过 4 千 4 百万像素范围），拥有 90GB/秒的强大输出带宽。

“我们的行业正在大举进军至高像素时代” Calibre 总经理(Executive Vice President) Mr. Willy Tsai 先生表示 “我们的产品支持从高清(HD)至超高清(UltraHD)，现在支持 8K 也已近在眼前，同时它还支持多屏拼接，在 LED 大型视频墙应用中用户体验更好。现在 LED 屏的像素越来越高，而实际屏体尺寸保持不变，因此每块屏的像素总数呈指数级增长，许多 LED 屏已经超过了 4K 分辨率，这对影像处理则带来更多挑

战。HQUltra4030 在市场对更高像素的需求下应运而生，凭借其强大功能和稳定性引领行业发展。”

此次发布的 HQUltra4030 产品除了具备 HQUltra4000 系列产品的所有基本功能和特性外，还将缩放频道数量倍增，达到了 12 个 - 4 个主输出，7 个多图层 PiPs，以及可进行缩放的主背景层。其中 HQUltra4030S 具备 8 个 12G-SDI 输入通道和 4 个 12G-SDI 输出，而 HQUltra4030FS 还支持 SFP + 12G-SDI 光纤输入输出。

HQUltra4030 可连接各类显示设备，包括投影仪，液晶屏 LCDs，LED 屏，适用于如固装，舞台/租赁等多种应用环境。此外，用户可通过设备中自定义 LED Videowall 菜单快速精确的设置图像像素以匹配各屏幕尺寸，对于大屏拼接项目的设置尤为方便。图像经设备缩放后，既可输出 4 个独立的 4K 画面，也可同步拼接成一整幅 8K/4 倍超高清画面，可达 8192x4340 像素范围。

设备拥有各类标准输入端口，包含 HDMI, DisplayPort, DVI, VGA, Composite, RGB 和 H.264 HD 流媒体接口，前端面板还设有一个 HDMI 输入及一个 USB 接口便于用户使用。

此次是 Calibre 在加入中强光电集团后首次于大型国际展会亮相，它将与母公司一起在 ISE2018 展会相得益彰。总部中强光电是全世界最大的 DLP® 投影仪制造商，亦为全球主要 Tier1 DLP 投影仪品牌的 OEM 提供商。

中强光电通过收购引进了 Calibre 处于市场领先地位的 HQUltra 图像处理技术，增强了自身技术实力，与此同时，Calibre 的研发能力和销售也通过总部支持得到进一步提升。

结束语

关于 Calibre

Calibre 是一家屡获殊荣的英国公司，在过去的 30 年间，Calibre 在多项技术中获得

了世界的认可, 其图像缩放和处理技术广泛应用于广播/电视, 数码摄像, 大型场馆投影, LED视频墙等领域. Calibre的产品以自有品牌命名, 同时也向全球专业视听领域的市场引导者提供产品和技术. Calibre是创新的市场引导者, 所有产品的研发和生产制造都由其在英国和德国的软硬件设计团队支持。

有用连接:

Twitter: @CalibreProAV

Website: www.calibreuk.com

关于中强光电

中强光电(中光电) 建于 1992 年 6 月 30 日, 位于台湾新竹科学园区。中强光电是一家数位投影机, 互动式影像投影系统, 影像投影模组, 液晶背光板, 触控模组, 工业和医疗液晶显示器的台湾制造商。

2016 年中强光电的营业额为 17.69 亿美金, 目前全球员工数达 17,000 人, 运营遍布台湾, 中国大陆, 美洲及欧洲等地。

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Calibre 为满足市场对更高像素之需求，发布最新 HQUltra4030 无缝缩放切换器。

http://www.calibreuk.com/images/press_images