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InSync and FOR-A deliver uncompromised 8k standards conversion

Motion compensated frame rate conversion provides unprecedented image quality

NAB Show, April 16-19, Las Vegas, Booth C2013 - InSync Technology, leading developer of high-quality video processing technology, has extended its relationship with FOR-A in delivering an 8k version of its motion compensated frame rate converter. The new appliance, the MCC-8K, provides seamless realtime conversion between 8k Ultra HD streams at 50, 59.94 and 60 frames per second.

As well as converting the video between the various frame rates, the MCC-8K also supports 32 channels of embedded audio and timecode pass through, with an audio delay option to maintain lip sync. To simplify integration into existing 4k workflows, the 8k feeds were carried on four 12G SDI cables as Ultra HD or 2SI.

InSync had previously provided a 4k Ultra HD conversion platform, marketed by FOR-A as the MCC-4K-A and widely used throughout industry. The MCC-8K uses dedicated hardware, including multiple FPGAs. Distributing the processing across multiple devices was one of the major challenges for the system design, as it is critical for success that the motion estimation and prediction algorithms operate across the whole image as a single entity.

InSync implemented the device in a single 2U cabinet, consuming around 200W, a remarkable achievement given the amount of processing required for framerate conversion in a stream running at more than 20 Gb/s.

“Our engineering design team had already delivered 8k products and the re-implementation of our motion compensation was developed with very high resolutions in mind, so we already had the expertise in house,” James Shepherd, CTO of InSync Technology explained. “It still called for outstanding work to design the distribution of processing across devices to provide a seamless output without compromising latency.

“We are all extremely proud of this achievement,” he said. “I believe we are the only company that could develop and manufacture this type of product.” Hiro Tanoue, Director, Overseas Business Division at FOR-A said “Our company philosophy encourages collaboration and partnerships. Our continuing relationship with InSync Technology continues to generate world-class innovations, meeting the real needs of major broadcasters and events. We look forward to more shared projects in future.”

InSync Technology will have an MCC-8K standards converter on display at NAB2023 (booth C2013, Las Vegas Convention Center, 16 – 19 April). More information on its products and services can be found at insync.tv.

About InSync

World-leading broadcast standards conversion specialists, InSync develops highly efficient signal processing hardware and software products with a focus on motion compensated frame rate and format conversion (standards converters).

InSync’s FrameFormer software standards converter is the only motion compensated frame rate converter designed for CPU-only deployment. FrameFormer offers unique flexibility in its support for Windows, Linux, and Mac operating systems and is available as an integration inside third-party solutions (such as AWS Elemental MediaConvert, Comprimato Live Transcoder, Dalet Amberfin, M2A Connect and Telestream Vantage), or as part of turnkey software applications including InSync FrameFormer Live.

About FOR-A

FOR-A, a worldwide, industry-leading manufacturer, offers a wide range of broadcast and production products with a focus on cutting-edge technologies including HD, 4k and IP products.

FOR-A continues to offer future-ready, cost-effective, advanced technology solutions. Products include video switchers, routing switchers, multiviewers, full 4k high-speed cameras, IP encoders/decoders, multi-channel signal processors, 8k/4k/HD test signal Generators, colour correctors, frame synchronisers, file-based products, character generators, video servers and much more.

For a full range of HD and 4k production and processing solutions, as well as IP-based products, visit www.for-a.com.