

News Release

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Hitachi Kokusai to Demonstrate SMPTE ST 2110 Support Across Broadcast Camera Line at 2018 NAB Show

Standards-based IP-based video transport slated for all current HITACHI digital triax and hybrid fiber HDTV cameras through upcoming new CCUs

Woodbury, NY, March 12, 2018 — Helping broadcasters and content producers navigate the industry's disruptive transition from baseband video infrastructures to IP-based workflows, Hitachi Kokusai Electric America, Ltd. (Hitachi Kokusai) will showcase its implementation of the SMPTE ST 2110 suite of standards across its extensive range of broadcast camera systems at the 2018 NAB Show. The company will exhibit in booth C4309 at the event, which will take place April 9-12 in Las Vegas.

Support for SMPTE ST 2110 – which provides standards for Professional Media over Managed IP Networks – is planned for all current-model HITACHI HDTV broadcast cameras when paired with new IP-enabled models in the CU-HD1300 family of camera control units. Demonstrations will display SDI-delivered signals alongside IP-based video transport from the same source, enabling visitors to experience first-hand the video quality transparency and low latency enabled by Hitachi Kokusai's IP implementation.

“The move to IP-based video transport is revolutionizing production infrastructures, and the SMPTE ST 2110 standards suite is critical in ensuring the interoperability that customers need to transition smoothly from SDI to IP,” said John J. Humphrey, Vice President of Business Development, Hitachi Kokusai. “Hitachi Kokusai is committed to implementing these standards in cost-effective, best-in-class acquisition solutions that enable customers to build on their existing investments while realizing the full potential benefits of IP-enabled workflows.”

HITACHI HDTV camera systems will initially comply with the published ST 2110-10 (System Timing and Definitions), ST 2110-20 (Uncompressed Active Video), ST 2110-30 (PCM Digital Audio) and ST 2110-21 (Traffic Shaping and Delivery Timing for Video) standards, as well as the soon-to-be finalized ST 2110-40 specification concerning

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metadata such as captions, dynamic range and more. Hitachi Kokusai's IP implementation will also comply with the ST 2059-2 PTP (Precision Time Protocol in Professional Broadcast Applications) and the AMWA NMOS IS-04 (Discovery and Registration) specification.

Camera output will be delivered over multicast IP as one channel of uncompressed video with two embedded digital audio channels. For HITACHI cameras equipped with High Dynamic Range (HDR) capabilities, all HDR functionality is available with IP-based transport, continuing Hitachi Kokusai's leadership in supporting the ITU R.BT.2100 HDR format.

Beyond the initial SMPTE ST 2110 implementation, Hitachi Kokusai is also working on advanced network management, control, switching, redundancy and content protection schemes for IP-based production infrastructures. These technologies will be rolled out in the company's next-generation 4K and 8K cameras, slated for use by several Japanese broadcasters at an upcoming international sporting event.

About Hitachi Kokusai Electric Inc.

Hitachi Kokusai Electric Inc., headquartered in Tokyo, Japan, is a company that manufactures broadcasting systems, security and surveillance systems, wireless communications and information systems, and semiconductor manufacturing equipment. Fiscal 2016 (ended March 31, 2017) consolidated net sales totaled 171,857 million Yen (\$1,531million). For more information on Hitachi Kokusai Electric Inc., please visit the company's website at <http://www.hitachi-kokusai.co.jp/global/en/index.html>.

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