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Hitachi Kokusai Introduces Innovative New 8K Camera

SK-UHD-8060B incorporates advanced CMOS sensor with organic photoconductive film to expand dynamic range of 8K acquisition

Woodbury, NY, April 28, 2020 — [Hitachi Kokusai Electric America, Ltd.](#) (Hitachi Kokusai) is continuing its leadership in 8K camera development with the introduction of its new SK-UHD8060B dockable 8K UHD TV camera. The company's fifth-generation 8K acquisition solution, the SK-UHD8060B combines the rich features and proven advantages of previous Hitachi 8K models with an innovative organic photoconductive CMOS image sensor to capture stellar 8K video with expanded dynamic range.

Existing 8K camera sensors have been limited in their dynamic range and sensitivity by the size of their pixels, which must be much smaller than those of 4K and HD cameras to accommodate 8K's higher resolution. Using a CMOS image sensor with an organic photoconductive film (OPF) enables a higher saturation charge compared to silicon photodiodes, thus increasing dynamic range without the diminished image quality inherent with previous range expansion technologies. The SK-UHD8060B offers greater than 400% dynamic range, maximizing the effectiveness of its support for the Hybrid Log Gamma (HLG) HDR specification, and combines it with built-in signal-to-noise management to optimize visual performance.

The SK-UHD8060B's Super 35mm OPF CMOS sensor delivers 8K video with 7680x4320 resolution, providing 16 times the picture information of HDTV. The new camera conforms to global standards including UHD-2, the ITU-R BT.2020 color specification, ITU-R BT.2100 for High Dynamic Range, and Japan's ARIB specifications.

The SK-UHD8060B supports PL-mount lenses and can flexibly output multiple television standards including 8K, 4K/UHD, 1080p, 1080i and 720p. The new camera head can be paired with a dockable recorder that uses a visually lossless codec, avoiding the time-consuming, post-acquisition processing typically required with RAW 8K recording approaches.

“Hitachi Kokusai has been at the forefront of 8K camera technology for many years, and the SK-UHD8060B continues this tradition of innovation,” said Sean Moran, Chief Operating Officer, Hitachi Kokusai. “The use of a sensor with organic photoconductive thin film enables increased dynamic range not previously possible at 8K resolutions, while its compactness and configuration flexibility make it suitable not only for studio and outside broadcast applications but also for cinematography when combined with an appropriate lens and recorder.”

The SK-UHD8060B, as well as Hitachi Kokusai’s new SK-UHD8240 240 fps high-speed 8K camera, will be used at the major international sporting event in Tokyo next year.

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. Fiscal 2018 (ended March 31, 2019) sales totaled 85,932 million Yen. 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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