Hitachi Kokusai Electric

News Release

Members of the press

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Hitachi Kokusai Electric Inc.

Development of 8K broadcasting camera system in cooperation with Japan Broadcasting Corporation

Hitachi Kokusai Electric Inc. (hereafter "Hitachi Kokusai"; President and Chief Executive Officer: Manabu Shinomoto) has developed Super Hi-Vision (8K) 1-CCD compact broadcasting cameras (hereafter "camera system") in cooperation with Japan Broadcasting Corporation (hereafter "NHK").

To simplify the production of video images as the market enters the 8K age, Hitachi Kokusai developed a camera system that supports various operation styles by developing a built-in recording unit and reducing the size of the camera and optical transmission unit.

This camera system will be displayed in NHK's and Hitachi Kokusai's booths at "NAB 2015", the world's biggest broadcasting device exhibition, held from April 13 to April 16 in Las Vegas, U.S.A.

Hitachi Kokusai will continue developing new products in order to increase the growth of the 8K market.

Key features:
The camera system has a unique dockable structure, and can support various operation styles by using features such as the optical transmission adaptor and the recording unit.

1. Experience the compact 8K camera head
This camera system uses a PL lens mount, which allows high-precision lenses (including lenses for movies and 4K) to be attached. The camera head has a flange-back adjustment mechanism that allows for easy adjustments of the back focus when a single focus lens is mounted. In addition, aberration correction functionality, which automatically reads and corrects lens aberration data, is included.
2. **Use as an integrated camera by using the recording unit**
By using the dockable SSD RAW recording unit, 8K recording becomes easy. The recording media (2 TB) uses a dedicated SSD slot to record up to 40 minutes. Data is recorded by connecting the recording unit with the compact camera adaptor and the CCU.

3. **Use as a compact system camera by connecting with the optical transmission unit**
By connecting the camera head with the optical transmission adaptor, the camera system can be used as a compact system camera. Similar to existing Hi-Vision broadcasting cameras, the optical transmission unit and the camera control unit (CCU) can be connected together via a hybrid fiber-optic cable. In addition, communication signals such as Tally and Income signals can be transmitted with the same method as existing Hi-Vision broadcasting cameras. A large-sized lens (PL mount lens) and VF adaptor that supports 4KVF are included with the product.

4. **Take crane shots by using the compact optical transmission adaptor**
The weight of the camera system is reduced through the use of the compact optical adaptor. As a result, the camera system can be easily installed on a crane or general-purpose camera stabilizer, allowing dynamic and stable camerawork.

5. **Output high-quality and lavish CCU images**
The camera system supports 4K output in addition to 8K output, allowing the camera to also be used when producing 4K content. For 8K dual green signals, you can switch between 1.5G-SDI (1 system) and 3G-SDI (2 systems), and simultaneously output in 8K, 4K, and HD (2K).

6. **Use equipped functionality to adjust the focus**
The camera system includes focus assist signals, which are used to assist the photographers with focusing the camera. Because 4K monitor output signals can be output dot by dot, VE makes adjusting the focus easy.