

FOR IMMEDIATE RELEASE

## CCS expands lineup of HLV3 series spot lights with renewed cylindrical models



**Kyoto, Japan, 9 October 2020** – CCS Inc. (CCS) has expanded its HLV3 series spot lights with the release of cylindrical type models, with a maximum of about 2.5 times the brightness of its predecessor the HLV2 series\*<sup>1</sup> for precise images in high-speed inspections.

Spot illumination is widely used in the manufacturing of electronic components and semiconductors to detect alignment marks for aligning components in combination with coaxial type telecentric lenses and macro lenses.

The HLV3 series cylindrical type can replace equivalent HLV2 models in an inspection system. By developing higher LED output and a new optical design, all models have improved brightness. As a result, bright and detailed images can be obtained even on fast moving production lines that use high-speed cameras with extremely short shutter speeds, improving the efficiency of a production line.

The product lineup includes 4 types of models with input current values of 385 mA, 700 mA, 1000 mA, as well as a  $\phi$ 12-mm emitting tip version (input current: 700mA). Four LED emission colors are available: red, white, blue, and green, for a total of 16 models.

The HLV3 series is ideal for use with the SE series\*<sup>2</sup> telecentric lens for image processing\*<sup>3</sup>. When used in combination with a megapixel camera, it creates stable imaging conditions.

CCS will continue to establish itself as a vendor of essential solutions that help customers illuminate what needs to be visible.

For more information, please do not hesitate to contact us or visit our website at [www.ccs-grp.com](http://www.ccs-grp.com).

\*<sup>1</sup> Comparison between HLV3-22-4C (White) and HLV2-22-3W (White).

\*<sup>2</sup> The SE-65-M series and SE-110-M series telecentric lenses are compatible with the HLV3 series.

\*<sup>3</sup> A telecentric lens only transmits rays parallel to the optical axis, which makes objects appear to be the same size regardless of their location in the field of view. This lens is often used for dimensional measurement for image processing.

## **About CCS**

CCS Inc. is the global leader in LED lighting and power supply for machine vision applications, pioneering advances in Illumination and Photonics products and technologies. Headquartered in Kyoto, Japan, CCS offers a wide range of machine vision lighting solutions: high-precision area and line scan illumination with special functions and intelligent lighting as well as plug & play lighting solutions. With over 25 years of expertise and 29 locations worldwide, CCS manufactures the highest quality, largest selection of standard and custom products in the industry—realizing solutions that provide customers with the visibility they need for machine vision.

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