

FOR IMMEDIATE RELEASE

CCS releases HL3 Series bar lights and HLDR3 Series ring lights for image processing inspection

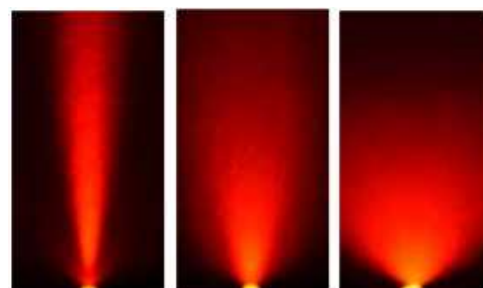


Kyoto, Japan, December 9, 2021 – CCS Inc., the world's leading manufacturer of LED lighting for image processing and inspection, launches the HL3 Series bar lights and HLDR3 Series ring lights for long-distance and wide-area irradiation on December 10, 2021.

This renewal of the HL2 series, which has been widely adopted in automotive and robot-picking applications, achieves 1.7 times the brightness of conventional products*¹ to obtain clear images at faster inspection speeds.

The overall size of the housing has been reduced from 62 mm depth to 44 mm for all models. Narrow type models are even more compact with a height of 30 mm instead of 42 mm, for a reduced weight by about 20%* to easily mount on robot arms and inspection equipment.

CCS will also release the HLDR3 series, a similar light for long distance illumination in ring-type form. In addition to the original wide and narrow types of directivity, a medium directivity-type is available for both bar and ring lights to select the type that best suits the inspection conditions.



The bar type HL3 Series has a total lineup of 144 models with 12 light-emitting surface sizes from 150 mm to 1800 mm (in 150 mm increments), 4 wavelengths (red, blue, white, and infrared), and 3 types of light directivity. The HLDR3 Series comes in 1 size with a housing diameter of 100 mm, and 4 wavelengths: red, blue, white, and infrared, for a total lineup of 12 models.

CCS will continue to serve 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.

*¹ Based on comparison between HL3-300X28SW-DF-N and our product HL2-300x45SW-DF-N at an irradiation distance of 1,000mm. The difference in brightness depends on the model.

*² Based on comparison between HL3-300X28SW-DF-N and HL2-300x45SW-DF-N.

Type	Model Name	Wavelength	Directivity	Release Date
Bar	HLDL3-150X28□□ - DF-●	Red (RD) White (SW) Blue (BL) Infrared (IR)	Wide (W) Medium (M) Narrow (N)	December 10, 2021
	HLDL3-300X28□□ - DF-●			
	HLDL3-450X28□□ - DF-●			
	HLDL3-600X28□□ - DF-●			
	HLDL3-750X28□□ - DF-●			
	HLDL3-900X28□□ - DF-●			
	HLDL3-1050X28□□ - DF-●			
	HLDL3-1200X28□□ - DF-●			
	HLDL3-1350X28□□ - DF-●			
	HLDL3-1500X28□□ - DF-●			
	HLDL3-1650X28□□ - DF-●			
HLDL3-1800X28□□ - DF-●				
Ring	HLDR3-100□□ - DF-●			

*□□: wavelength, ●: directivity

From 1993, CCS advanced the machine vision industry by developing LED lighting for inspection that Created Customer Satisfaction for both manufacturers and their consumers, who demanded safe, high-quality goods. Today, CCS leads the machine vision world in innovation with thousands of products including lights, controllers, and accessories. CCS's global network of employees is dedicated to helping manufacturers capture the most important details in an inspection, so that their customers never receive anything less than their highest quality.

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