

FOR IMMEDIATE RELEASE

CCS Releases LB Series Diffuse Bar Lights for Image Processing Inspection

338 models with different size, color, and output options to meet the needs of a wide range of industries and inspection applications



From left:

LB-300X50SW (Emitting width: 50mm)

LB-300X100BL (Emitting width: 100mm)

LB-300X150RD (Emitting width: 150mm)

Kyoto, Japan, December 19, 2022 – CCS Inc. will release the LB Series LED diffuse bar lights for image processing inspections on December 20, 2022. It is ideal for bright field, backlighting, wide-area uniformity, and diffuse dome illumination.

The LB Series includes three emitting surface widths (50mm/100mm/150mm), 26 emitting surface lengths (200mm-2700mm in 100mm increments), four wavelengths (white/red/blue/infrared), and a high-output type capable of overdrive for select models. These products suit area scan applications for automotive parts, food, packages, etc., and line scan applications for film, paper, nonwoven fabrics, etc. The series is the latest addition to our standard lineup, offering form factors and sizes that were previously custom-order for more accessible delivery time and price.

Use Cases

1. **Bright Field:** Diffuse light is emitted at an angle, and the light reflects directly into the camera. Select from a range of emitting surface sizes to suit the workpiece and environment.

Applications: Visual inspection of rectangular workpieces, visual inspection of textured metal, foreign material inspection, presence/absence inspection, etc.



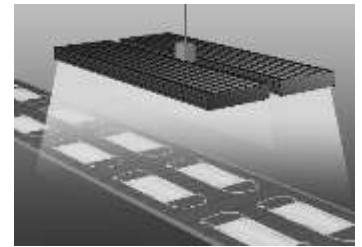
2. **Backlighting:** Diffuse light illuminates the workpiece from behind. Suitable for inspecting foreign material in translucent containers, liquid level inspection, silhouette inspection, etc.

Applications: Liquid level inspection in cylindrical containers, foreign matter inspection of sheets, Scratch inspection of films, etc.



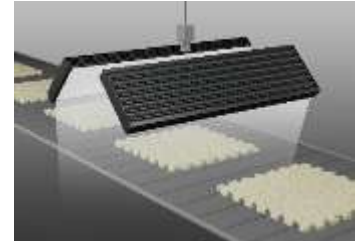
3. **Wide-Area Uniformity:** Uniform diffuse light is emitted from the same direction as the camera over a wide area.

Applications: Sealant application inspection, print inspection on textured surfaces, robot picking inspection, etc.



4. **Diffuse Dome Illumination:** Uniform diffuse light is emitted from two directions to reproduce a dome lighting effect. This realizes imaging with minimal shadows and halation on uneven surfaces.

Applications: Visual inspection of electronic components, inspection for dirt on sheets, etc.



With our core business in the manufacture and selling of inspection lighting and power supplies, CCS will continue to propose solutions that realize "visibility" for inspection cameras and lenses, image recognition programs, and AI-based inspections.

Lineup

	Standard Type			High-Output Type
Emitting Surface Width	50mm	100mm	150mm	50mm
Model Name	LB-●●●X50□□	LB-●●●X100□□	LB-●●●X150□□	LB-H-●●●X50SW (50mm only)
Emitting Surface Length	200mm~2700mm 100mm increments			
LED Emission Color	White · Red · Blue · Infrared			White
Peak Wavelength / Correlated Color Temperature	White: 6300K Red: 630nm Blue: 467nm Infrared: 860nm			6300K
Cooling Method	Natural air cooling			

* ●●●: length

* □□: wavelength

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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Press Contact:

Sayoko Takahashi – Marketing Communications

Tel. +81-75-415-8277

sy-takahashi@ccs-inc.co.jp

CCS Inc.

38 Konoecho, Demizu-Agaru, Muromachi-dori,

Kamigyo-ku, Kyoto, 602-8019 Japan

TEL: +81-75-415-8277

sales@ccs-inc.co.jp

www.ccs-grp.com