

100mm High Power Ring Light Blue

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+

A\$1,784⁰⁰

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Product Downloads

General	
Model Number:	HPR2-100BL
Type of Illumination:	LED Illuminator
Note:	Requires #20-175, #20-171
Manufacturer:	CCS
Geometry:	Ring Light

Illumination Mode:		Constant
Physical & Mechanical Properties		
Dimensions (mm):		OD: 116, ID: 66, Height 26.4
Weight (g):		168
Optical Properties		
Color:		Blue
Wavelength (nm):		470
Electrical		
Power Consumption (W):		23
Hardware & Interface Connectivity		
Input Voltage (V):		24
Power Supply:		Power Supply Required and Sold Separately: USA: #73-491 Europe: #73-491 Japan: #89-513 Korea: #33-773 China: #73-491
Regulatory Compliance		
RoHS 2015:		Exempt
Reach 224:		Contains SVHC(s)
Certificate of Conformance:		View

Product Details

- Uniform High Intensity Diffuse Light Source
- Switchable Red, Green, Blue, and White Channel Outputs
- Illumination for Text Recognition (OCR) and Color Examination Applications

CCS High Intensity Ring Lights feature a curved diffusion plate which provides uniform high intensity diffuse light. These lights can be used for a wide range of working distances as the unique design ensures little change in the uniform region as distance from the workpiece increases or decreases. The full color models feature independently controllable channels of red, green, and blue LED's while single color red, blue, and white models are also available. CCS High Intensity Ring Lights are ideal for a wide variety of detection applications such as text recognition (OCR) and color examination.

3D-Printable Mount Files



Ring Light Configuration

DOWNLOAD
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Designed for use with the [Articulating Arm Mounting Systems](#), these 3D-printed mounts allow easy positioning of lights in brightfield or darkfield setups. The design is based on mounting illumination to ¼-20" breadboards or into 80/20 extrusion systems, but can be adapted based on user needs. Mounts are available for ring, bar, line, and inline spot lights.



Application Note

Illumination Mounts for Machine Vision Applications
[Read](#)



Video

Assembly of 3D Printed Mounts for Common Illumination Geometries
[Watch](#)

Technical Information

HPR2-75 model **NEW!**

Applications: Text recognition on electronics parts, detecting edges of metal parts, etc.

Comparison of imaging for the HPR2-75RD (red) and with the Ring Light LDR2-70RD2 (red)

Workpiece: Electronics part in embossed tape

With Ring Lights, reflection from the embossed tape surface makes it difficult to perform stable examination.

The new HPR2-75RD allows for text imaging that limits surface reflection.

Lineup of full color (RGB) types **NEW!**

Applications: Examining the exterior by color for multi-colored workpieces, examining the exterior of food products, etc.

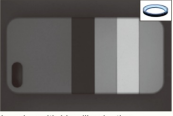
● Imaging with the HPR2-200FC (full color)



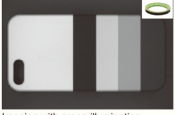
Workpiece: Smartphone case



Imaging with red illumination



Imaging with blue illumination



Imaging with green illumination



Imaging with white (all colors lit up) illumination