



INDUSTRIAL MACHINE VISION LIGHTS



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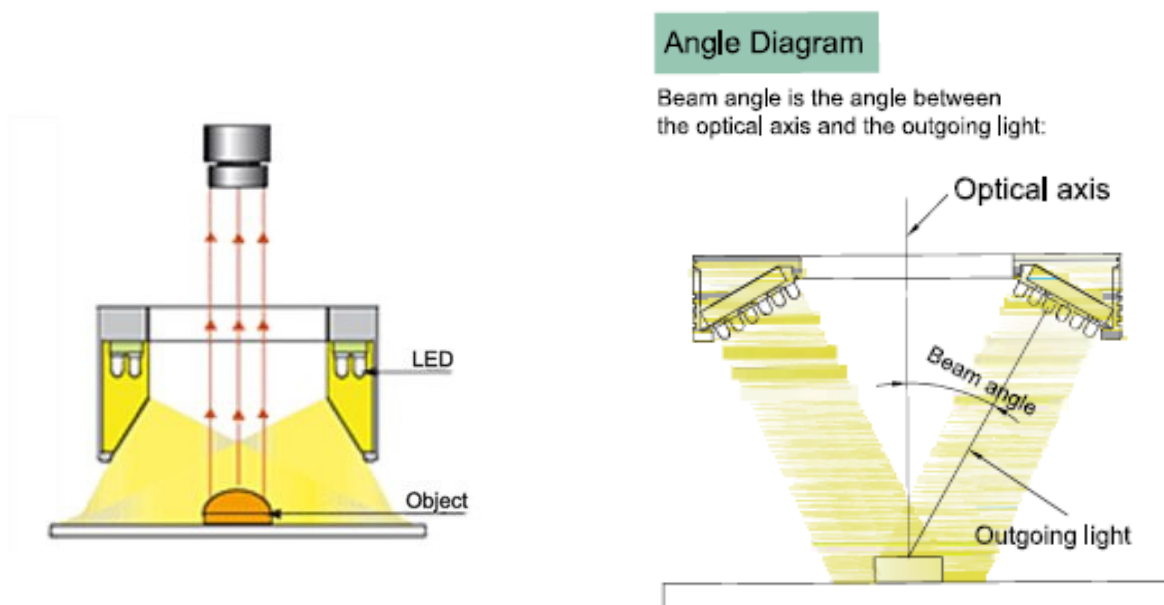
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HIGH-BRIGHTNESS HIGH-POWER RING LIGHTS

PS-DRH SERIES



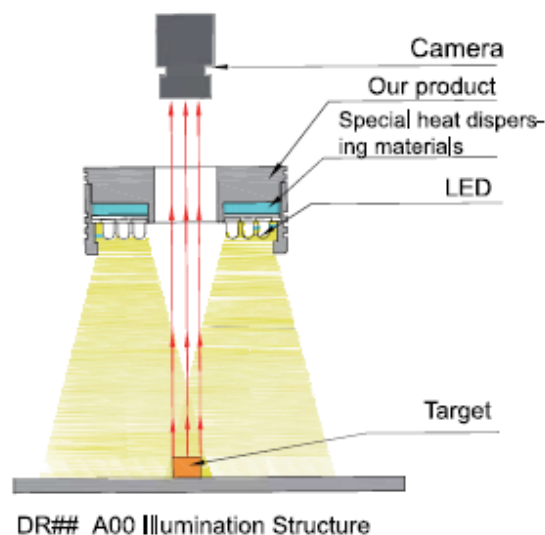
High-brightness, high-power ring lights play a crucial role in machine vision applications by providing uniform and intense illumination around the object being inspected. Their circular design ensures that light is projected evenly from all directions, minimizing shadows and highlighting surface details with high contrast. This makes them especially effective for applications such as defect detection, surface inspection, barcode reading, and object recognition where precision and clarity are essential. By delivering stable and powerful illumination, high-brightness ring lights enhance image quality, improve system accuracy, and ensure reliable performance even in challenging environments.



When and how to use High-Brightness High-Power Ring Lights

High-brightness, high-power ring lights are best used in machine vision applications when objects have complex shapes, reflective surfaces, or require detailed edge and surface inspection. They are typically mounted around the camera lens, projecting uniform illumination directly onto the target from multiple angles, which helps eliminate shadows and minimize glare. These lights are particularly effective for tasks such as inspecting metallic parts, reading low-contrast codes, or detecting fine surface defects where standard lighting may fail. By adjusting the intensity, angle, and wavelength of the ring light, users can optimize image contrast and clarity, ensuring accurate and consistent results across various inspection environments.

Illumination Structure



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PS-DRH Series

FEATURES

- High-brightness large-grain LED array
- Long-distance and large-area illumination
- Multiple colors available and customizable
- Optional diffusers with different transmittances to enhance light uniformity
- Wave-soldering process, easy installation, compact design

APPLICATION

- Large-area illumination
- Long-distance illumination
- General appearance inspection illumination
- High-speed assembly line illumination

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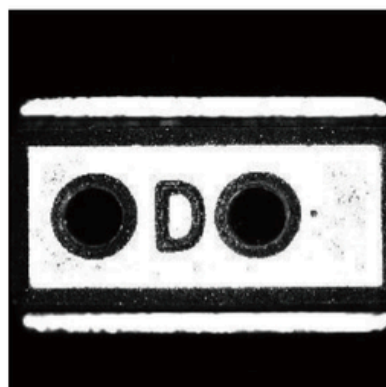
PS-DRH Series



Aluminum Part Positioning Guide



Metal Part Positioning



Screw Hole Positioning

TECHNICAL INDEX

Color (Wavelength)	Red: 620-630nm	Green: 525-530nm	Blue: 465-470nm
	White Color Temperature 6600-7000K	UV: 365-395nm	IR: 850/940nm
Operating environment	Temperature: 0 to 50 C, Humidity: 20% to 85% RH		
Lifetime	100,000 Hours theoretical service time (Depends on the operating environment, not a guarantee.		
Compatible Controller	Analog Controller, Digital Controller, Constant Current Controller		
Optional Accessory	Light sources and Lens Adapter.		
	Diffusion Plate, Polarizing Plate (Optical Transmittance: 60%, 70%, 80%, 90%)		
	Extension Cable: 1m/2m/5m/10m/15m (Two kinds of materials of the shell of wire; PVC of hardness; silicon of softness)		
Warranty	One year warranty, technical support (Buyers pay for the freight)		

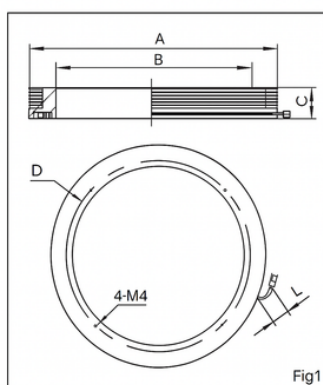
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Light parameters (Voltage is 24V)

Angle	Model	Color (R/G/B/W/ IR/UV)	Power(W)		Dimensions(mm)				Picture No.
			Output (Green/Blue/White/UV)	Output (Red/IR)	Outer Diameter (mm)	Inner Diameter (mm)	Mounting Hole (mm)	Thickness (mm)	
0°	PS-DRH90-A00	● ● ● ●	12.9W	5.3W	90	34	60	41	1
	PS-DRH120-A00	● ● ● ●	12.9W	5.3W	120	60	80	41	
	PS-DRH180-A00	● ● ● ●	29.3W	20.3W	180	120	140	41	
	PS-DRH240-A00	● ● ● ●	15W	28.5W	240	180	195	41	
	PS-DRH320-A00	● ● ● ●	42.9W	55.5W	320	256	275	41	
	PS-DRH600-A00	● ● ● ●	56.2W	70.3W	600	539	560	53	
	PS-DRX-45	● ● ● ●	5.2W	3.3W	45	13	30	21	
	PS-DRX-60	● ● ● ●	8.6W	5.7W	60	26	45	21	
	PS-DRX-80	● ● ● ●	12.3W	8.1W	80	45	65	21	
	PS-DRX-90	● ● ● ●	15.7W	10.5W	90	54	75	21	
	PS-DRX-120	● ● ● ●	11.8W	12.9W	120	84	100	21	
	PS-DRX-150	● ● ● ●	20.8W	15.3W	150	114	130	21	

Installation Drawing



CONTACT DETAILS

You can also contact us over email / phone, we will be happy to support you.

Phone No.: +91 9528609462

Email Id: solution@perfecto.co.in
info@perfecto.co.in

Address: 294, Sector 8, IMT Manesar, Gurugram,
Haryana 122050, India



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+91 9528609462



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