



INDUSTRIAL MACHINE VISION LIGHTS

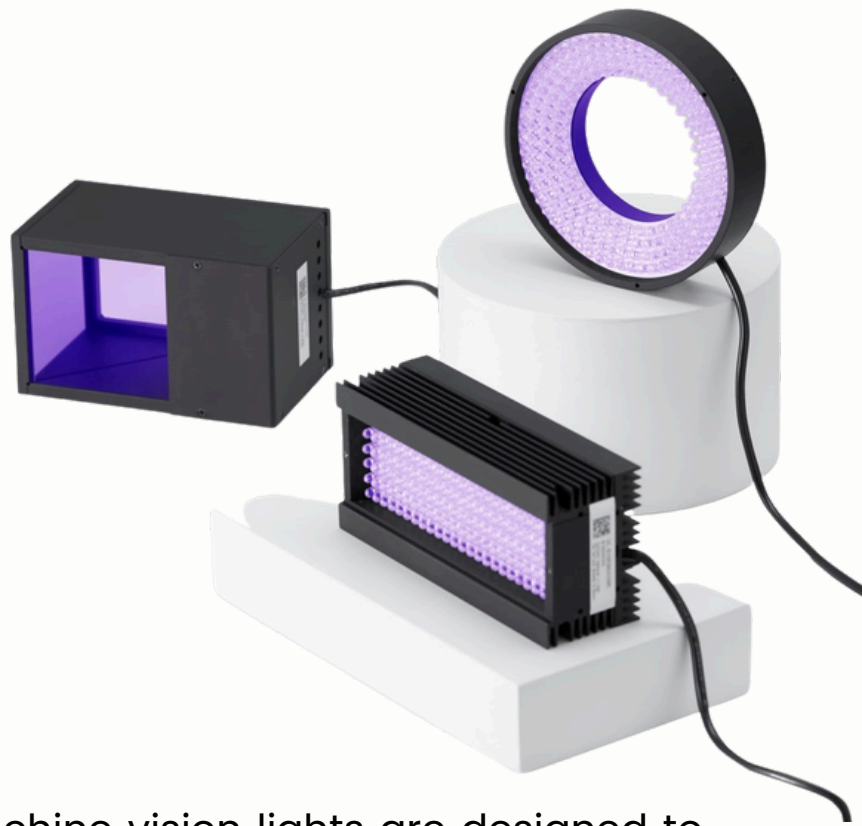


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"Illuminate the Path to Precision: Unleash the Power of Industrial Machine Vision Lights"



Our cutting-edge industrial machine vision lights are designed to illuminate the smallest details, ensuring flawless results and maximum efficiency.

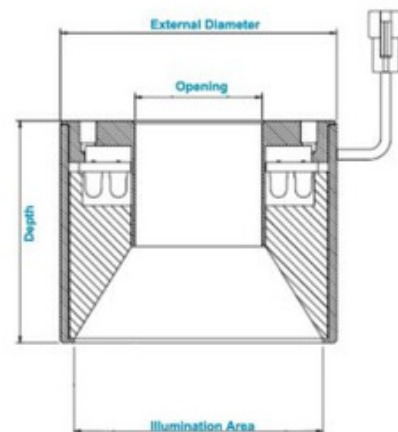
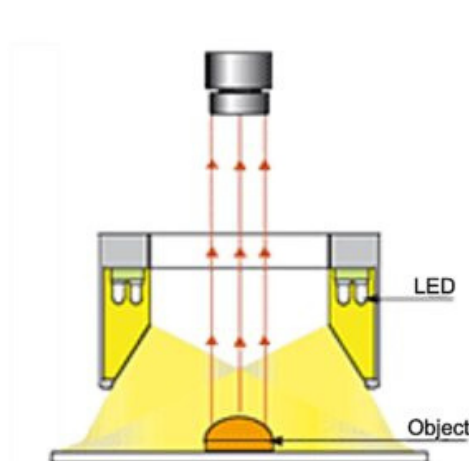
With our extensive range of specialized lights, including line scan, ring, and high-intensity options, you can:

- Enhance image quality and accuracy
- Boost production speed and reliability
- Reduce errors and defects
- Improve overall product quality

SHADOWLESS RING LOW ANGLE LIGHT PS-FPR SERIES



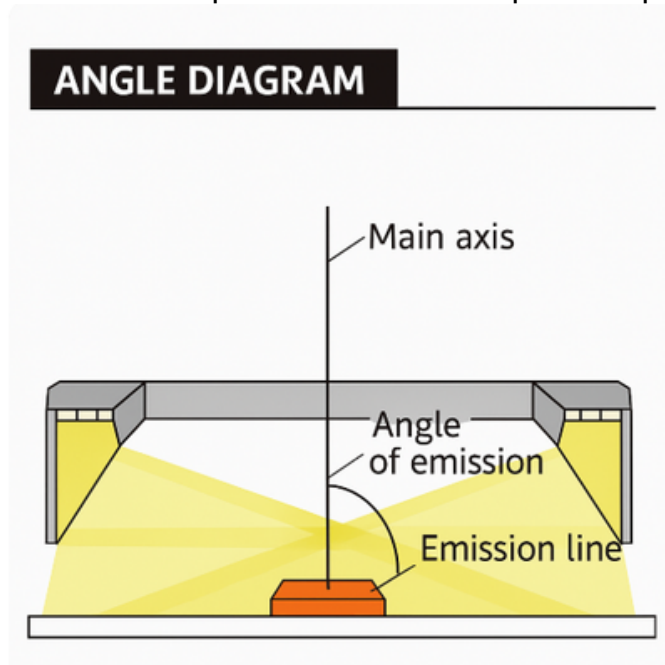
The shadowless ring low-angle machine vision light is a sophisticated lighting solution designed to provide uniform, diffuse illumination essential for high-precision imaging applications. This technology utilizes a ring of LEDs, combined with a high-efficiency light guide plate, to deliver a shadow-free lighting environment. The light passes through the guide plate, which scatters it evenly, ensuring consistent intensity across the entire field of view and eliminating harsh shadows that could obscure details. This makes it ideal for use in machine vision systems, where accurate visual inspection is crucial. The light's ability to operate effectively at low working distances enhances its utility in confined spaces, such as in small parts assembly or detailed inspection tasks in industrial settings. Its shadowless nature is particularly beneficial in sectors requiring detailed analysis and precise measurements, such as electronics manufacturing, quality control, and various scientific research fields.



When and how to use Shadowless Ring Low Angle Lights

Shadowless Ring Low Angle Lights are pivotal in machine vision applications where precision and clarity are paramount. These lights are designed to provide even, diffused illumination without shadows, which is crucial for capturing high-quality images of objects with minimal reflection and distortion.

To use these lights effectively, install them so that the ring surrounds the camera's lens, allowing the light to envelop the target area uniformly from a low angle. This setup minimizes shadows and ensures consistent lighting, which is essential for accurate image processing and analysis. Adjusting the light's intensity and working distance according to the specific requirements of the application can further optimize visibility and enhance the precision of the inspection process.



SHADOWLESS RING LOW ANGLE LIGHTS PS-FPR Series

FEATURES

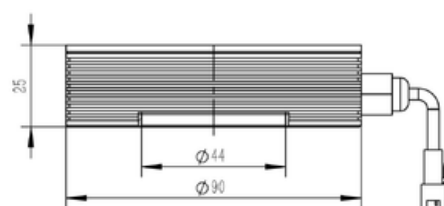
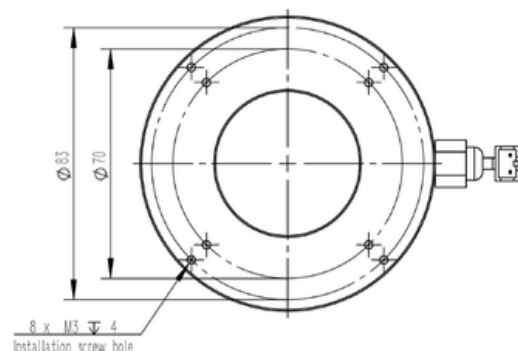
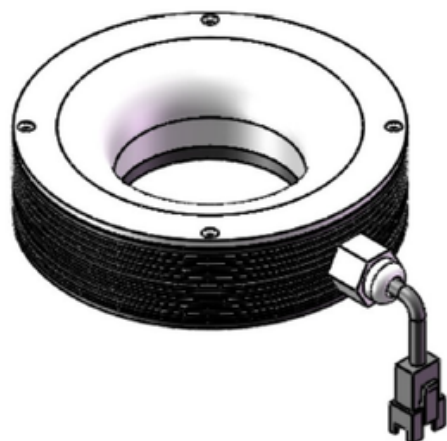
- Surface emission, high uniformity, low working distance.
- Available in multiple sizes, compatible with coaxial combinations and customizable.
- Uniform surface illumination, no light spots.
- Reflow soldering process, easy installation, compact design.

APPLICATION

- Surface defect detection of cigarette packs
- General appearance inspection and microscope illumination Character and appearance inspection of capacitors and IC components
- Ideal light source for surface scratches, imprints, damage, and edges
- High reflective surface detection

SHADOWLESS RING LOW ANGLE LIGHTS

PS-FPR SERIES



TECHNICAL INDEX

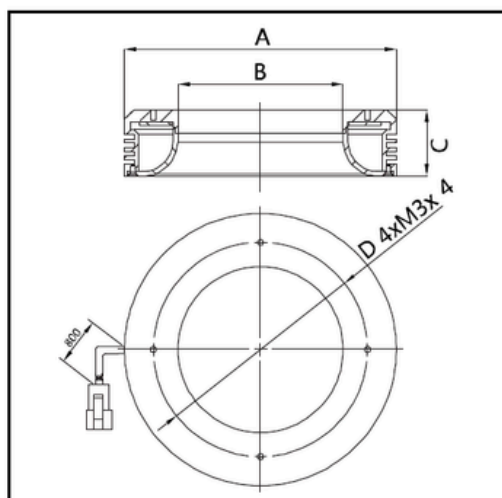
Color (Wavelength)	Red: 620-630nm	Green: 525-530nm	Blue: 465-470nm
	White Color Temperature 6600-7000K	UV: 365-395nm	IR: 850/940nm
Operating environment	Temperature: 0 to 50 C, Humidity: 20% to 85% RH		
Lifetime	100,000 Hours theoretical service time (Depends on the operating environment, not a guarantee.		
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)		

SHADOWLESS RING LOW ANGLE LIGHTS

PS-FPR SERIES

Model	Color	Power(W)	Dimensions(mm)				Working Distance (mm)
		Angle	Power (Green, Blue, White, Ultraviolet)	Power (Red/Infrared)	Luminous Flux (Lm)	Beam Angle (degrees)	
PS-FPR50-A45		45°	1.9W	2.4W	50	26	36
PS-FPR70-A45		45°	4.6W	6.2W	70	32	50
PS-FPR90-A45		45°	8.4W	7.6W	90	44.5	70
PS-FPR50-A60		60°	1.7W	2.1W	50	26	36
PS-FPR80-A60		60°	3W	3.8W	80	64	70
PS-FPR90-A60		60°	6.2W	6.5W	90	44.5	70
PS-FPRI20-A60		60°	7.1W	7.5W	120	76	100/108
PS-FPRI40-A60		60°	5.8W	8.9W	140	96	120
PS-FPRI80-A60		60°	12.6W	12.6W	180	134	160

Installation diagram



CONTACT DETAILS

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

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