

INDUSTRIAL MACHINE VISION LIGHTS

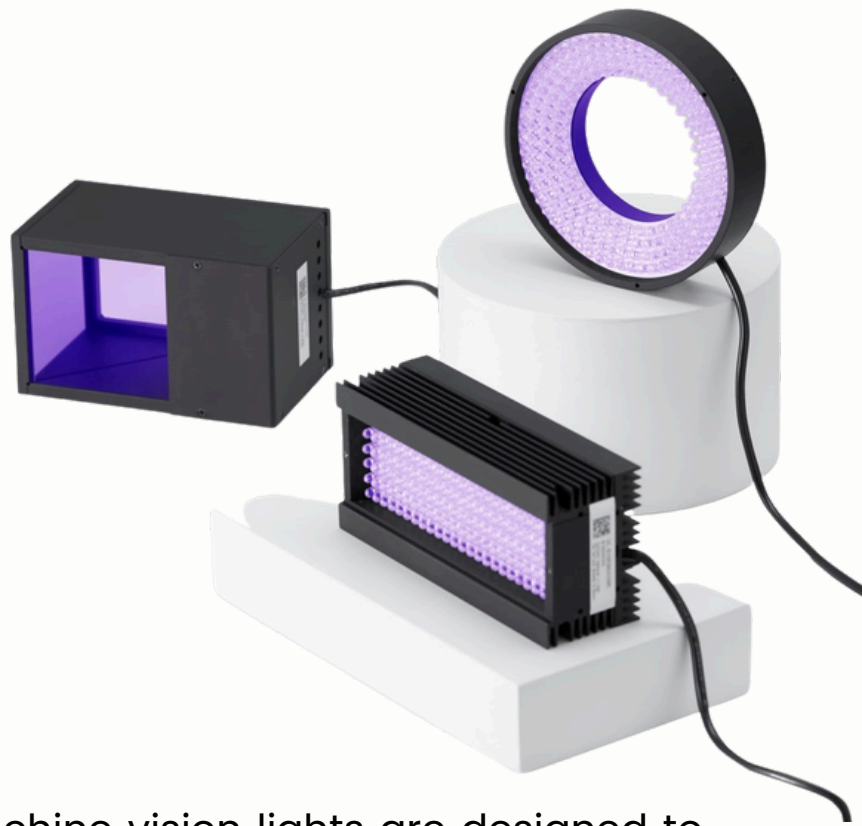


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www.perfecto.co.in

"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

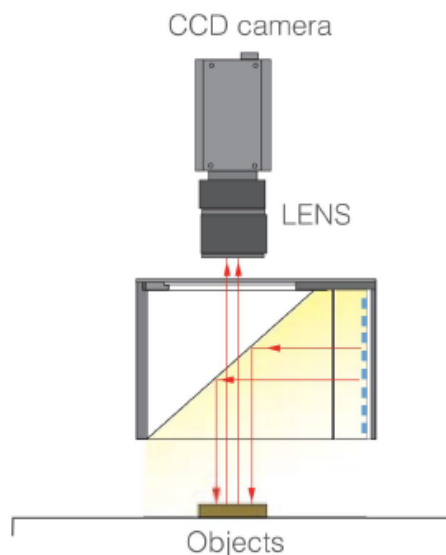
COAXIAL LIGHT

PS-FV SERIES



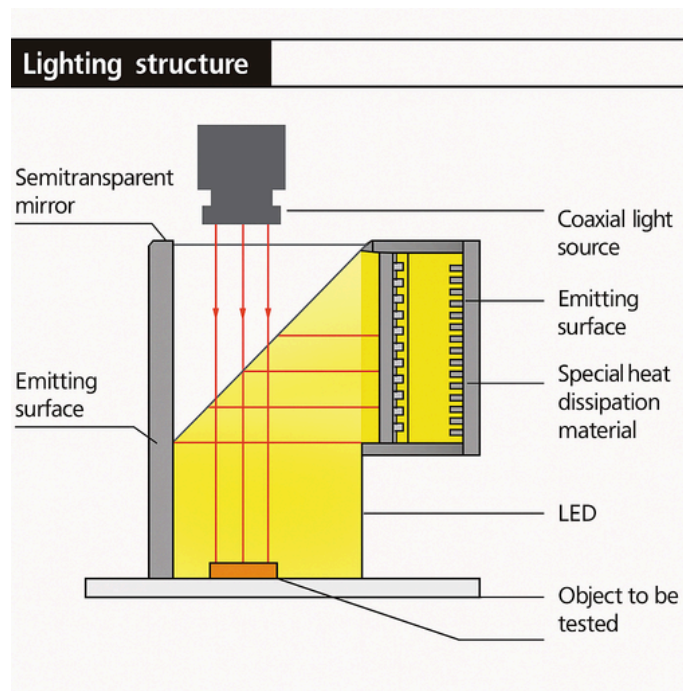
Coaxial lights are an essential tool in machine vision applications, especially when dealing with highly reflective or specular surfaces. These lights are designed to align with the camera's optical axis, providing even, diffuse illumination directly from the viewpoint of the camera lens. This setup minimizes shadows and reflections that can obscure details, making coaxial lights ideal for inspecting surfaces like glass, metal, or polished objects. They are particularly effective in enhancing contrast in surface features, detecting scratches, engravings, or other surface defects, and in applications requiring precise dimensional measurements. By eliminating glare and providing a clear view of minute details, coaxial lights improve the accuracy of visual inspection systems in quality control processes across various industries, from electronics manufacturing to automotive assembly.

LIGHTING STRUCTURE



When and how to use Coaxial Lights

Coaxial lights are indispensable in machine vision applications for their ability to deliver even, shadow-free illumination directly along the camera's optical axis. This unique lighting arrangement is particularly beneficial for inspecting highly reflective or flat surfaces, such as wafers, metal parts, or any materials with glossy finishes. It also enhances the visibility of surface features such as chip characters and connector terminals, facilitating accurate height detection. Additionally, coaxial lights are ideal for examining reflective objects, ensuring that defects such as scratches or edge damage are easily detectable without the interference of glare. When deploying coaxial lights, it is essential to align them properly with the camera to maximize the effectiveness of the light's path and to adjust the intensity to suit the specific reflectivity of the object under inspection. This setup helps achieve high-quality imaging results crucial for reliable automated inspection and quality control processes.



COAXIAL LIGHTS

PS-FV Series

FEATURES

- Advanced semi-lens, reduces light loss during reflection.
- Optional optical plastic film to suppress diffused light in specific directions, tailored to on-site requirements.
- Wave soldering process, allows for easier installation on both sides and the front.
- High-density alignment, uniform illumination, no ghosting

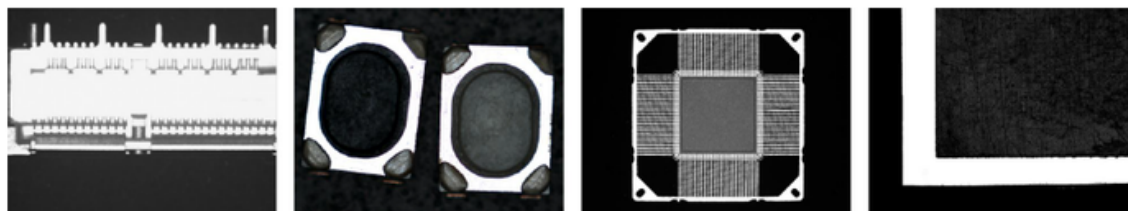
APPLICATION

- QR code, mark point detection.
- Product outline, spacing detection.
- Chip character, connector terminal height detection.
- Product outer edge damage detection.
- Reflective object surface detection.

COAXIAL LIGHTS

PS-FV SERIES

IMAGING EXAMPLE



pin detection

Detection of colloid

Chip defect detection

Location detection

TECHNICAL INDEX

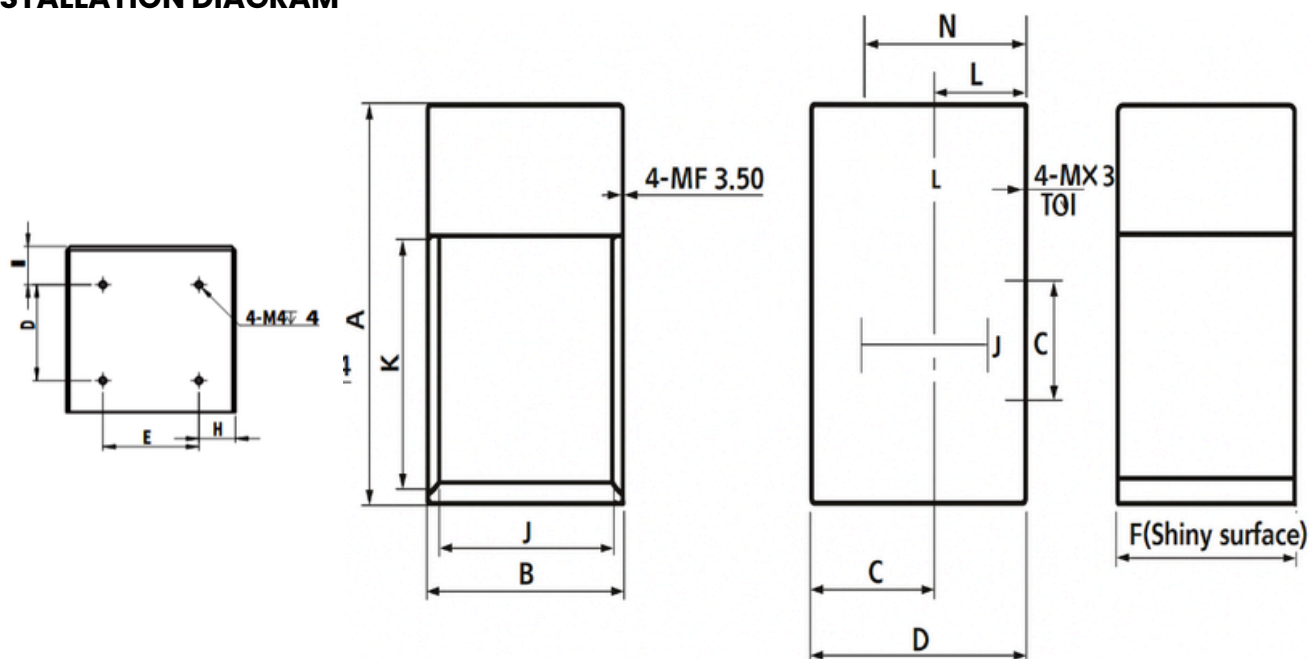
Color (Wavelength)	Red: 620-630nm	Green: 525-530nm	Blue: 465-470nm
	White Color Temperature 6600-7000K	UV: 365-395nm	IR: 850/940nm
Operating environment	Temperature: 0 to 50 C, Humidity: 20% to 85% RH		
Lifetime	100,000 Hours theoretical service time (Depends on the operating environment, not a guarantee.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

COAXIAL LIGHTS

PS-FV SERIES

Model	Color	Type	Power(W)		Dimensions (mm)			
			Power (Green, Blue, White, Ultraviolet)	Power (Red/Infrar ed)	Total Length	Total Width	Height	Mounting Hole
PS-FV20		Corneal Light Source	1.2W	1W	60	33	32	21
PS-FV25		Corneal Light Source	1.5W	1.2W	65	38	38	21
PS-FV40		Corneal Light Source	4.3W	2.4W	77	46	47	25
PS-FV50		Corneal Light Source	7.2W	3.9W	101	60	60	36
PS-FV70		Corneal Light Source	8.3W	5.5W	125	84	79	50
PS-FV80		Corneal Light Source	8.4W	5.8W	131	86	79	50
PS-FV100		Corneal Light Source	21.6W	18.5W	153	110	107	78
PS-FV130		Corneal Light Source	64.5W	51.6W	187	142	137	78
PS-FV150		Corneal Light Source	50.4W	42.7W	206	162	158	130

INSTALLATION DIAGRAM



CONTACT DETAILS

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

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