

INDUSTRIAL MACHINE VISION LIGHTS

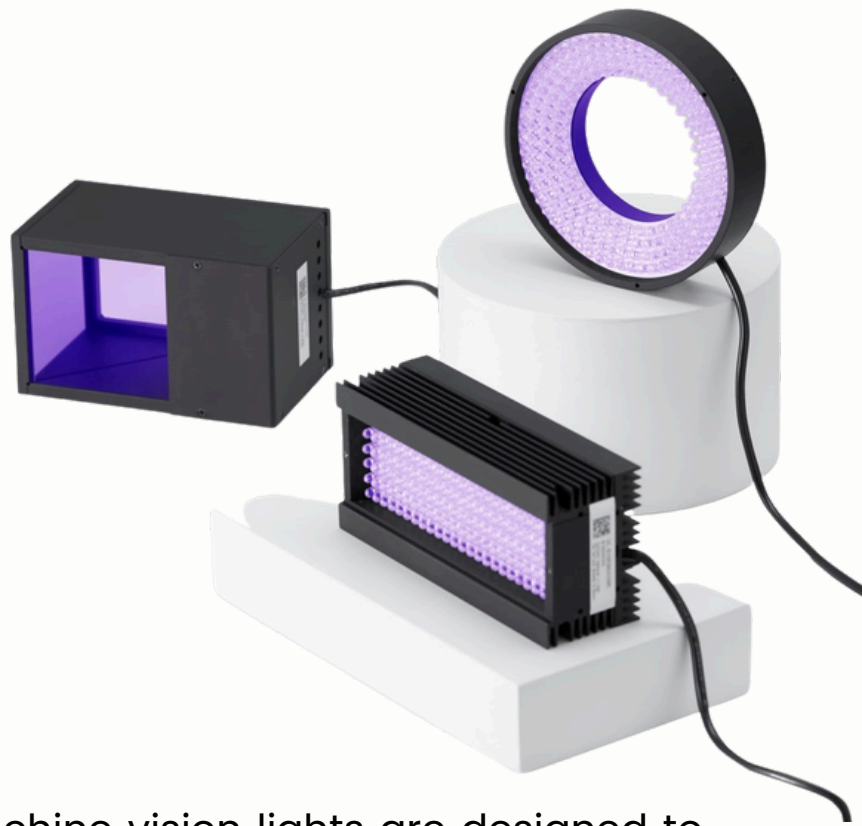


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www.perfecto.co.in

"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

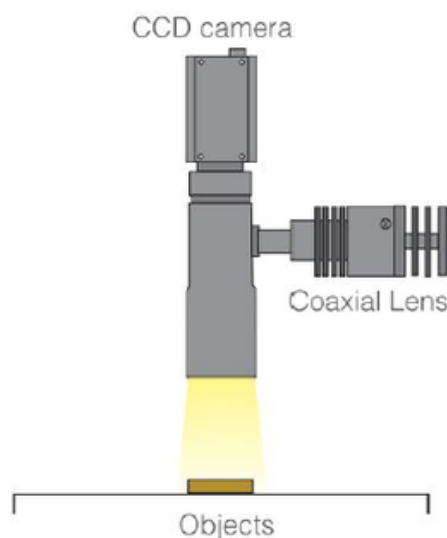
SPOT LIGHT

PS-DV SERIES



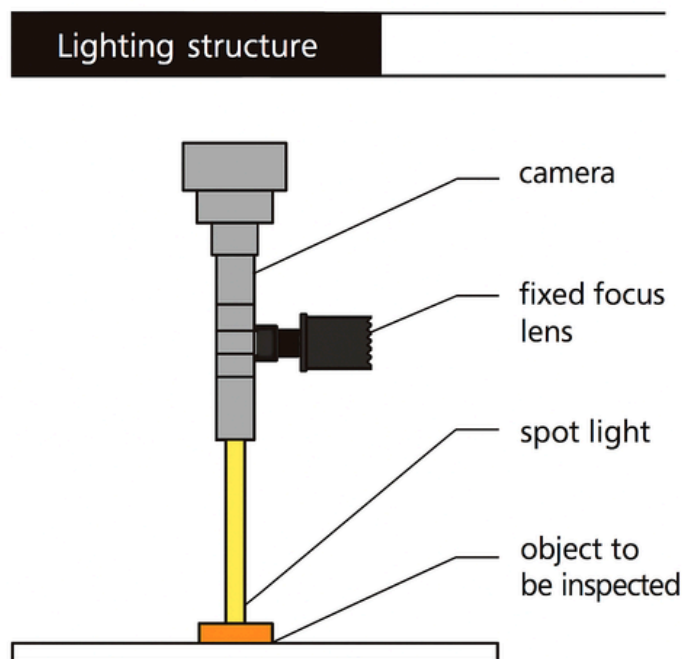
Point or spot lights are critical components in machine vision applications, particularly valuable for their ability to focus intense, direct light onto small areas. These lights typically incorporate high-brightness LEDs combined with precision lenses to concentrate light into a sharp, focused beam. This setup is ideal for enhancing the contrast of features on inspected objects, making it easier to detect minute defects, read barcodes, or perform detailed measurements. Spot lights are especially useful when working with complex surfaces or materials that reflect light, such as metals or glass, as they can illuminate specific points without flooding the entire scene with light. This targeted approach helps to minimize reflections and shadows that might otherwise obscure crucial details, thereby increasing the accuracy and reliability of vision systems in automated assembly lines, quality control inspections, and various industrial imaging applications.

LIGHTING STRUCTURE



When and how to use Spot Lights

Spot or point lights are highly specialized lighting tools used in machine vision applications to provide focused, intense illumination on specific areas of an object. These lights are particularly beneficial when examining small, detailed features or when high contrast is required to distinguish features from the background. Spot lights direct a concentrated beam of light directly onto the subject, enhancing the texture and surface details which are crucial for applications such as barcode reading, defect detection on electronic components, and precise measurements in quality control processes. When using spot lights, positioning is key: the light should be aimed such that it highlights the features of interest without causing excessive glare or reflections that could impede image analysis. Adjustable intensity levels allow for customization according to varying material properties and ambient lighting conditions, making spot lights versatile tools in both controlled laboratory environments and challenging industrial settings.



SPOT LIGHT PS-DV Series

FEATURES

- Compact size, lightweight, good heat dissipation.
- High brightness, high uniformity.
- Composed of optical lenses, used in conjunction with coaxial lenses, suitable for narrow spaces.

APPLICATION

- Mark point alignment detection.
- QR code detection.
- Connector small gap detection.
- Chip detection.
- LCD screen detection.
- Light inspection machine (medical equipment).

SPOT LIGHTS

PS-DV SERIES

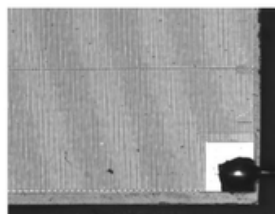
IMAGING EXAMPLE



Type C Detection



OCR detection



Chip breakage Detection



Thin film QR code detection

TECHNICAL INDEX

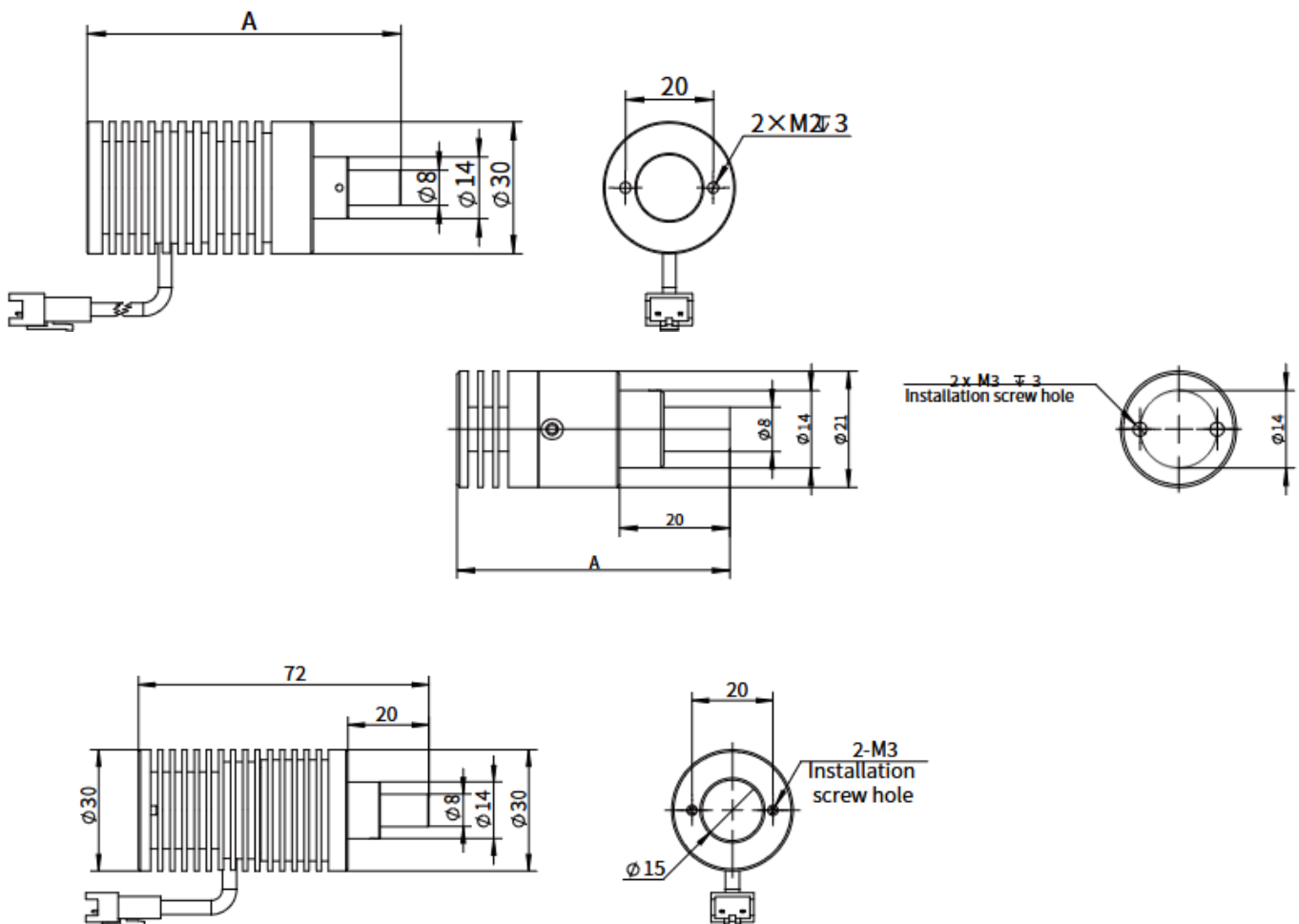
Color (Wavelength)	Red: 620-630nm	Green: 525-530nm	Blue: 465-470nm
	White Color Temperature 6600-7000K	UV: 365-395nm	IR: 850/940nm
Operating environment	Temperature: 0 to 50 C, Humidity: 20% to 85% RH		
Lifetime	100,000 Hours theoretical service time (Depends on the operating environment, not a guarantee.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

SPOT LIGHTS

PS-DV SERIES

Model	Color	Type	Power(W)		Luminous Flux (lm)	Status
			Power (Green, Blue, White, Ultraviolet)	Power (Red/Infrared)		
PS-DV3W		Adjustable	3W	3W	52	On/Off
PS-DV5W		Adjustable	5W	5W	70.5	On/Off
PS-DVM3W		Adjustable	3W	3W	72	On/Off
PS-DVR3W		Reflective	5W	3W	52	On/Off

INSTALLATION DIAGRAM





CONTACT DETAILS

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