

INDUSTRIAL MACHINE VISION LIGHTS

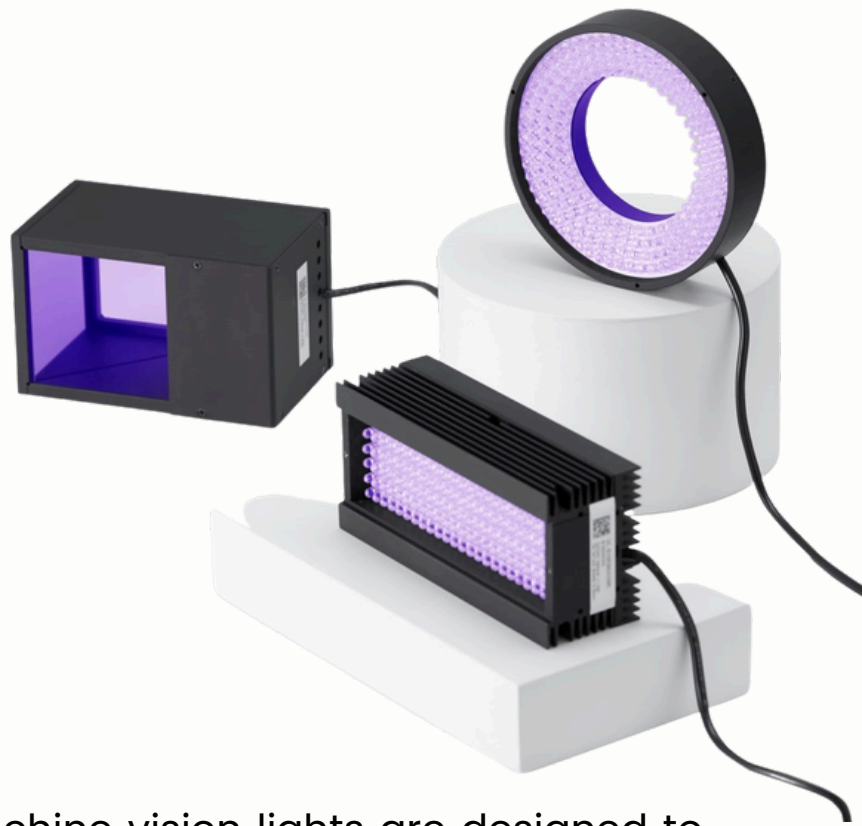


Call Us
+91 9528609462



Visit Our Website
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

UV Vision Lights: Advanced Illumination Solutions for Machine Vision

Why Choose UV Vision Lights?

Transform your inspection capabilities with our cutting-edge UV lighting solutions. Where standard visible light falls short, UV illumination reveals previously invisible defects and features, revolutionizing your quality control process.

By means of fluorescent lamps ("black light") or ultraviolet LEDs it is relatively simple to generate UV light with a wavelength of 365 nanometres in the near "UV-A range".

Key Advantages

- **Superior Detection Capability:** Reveal features invisible to standard lighting
- **Enhanced Surface Inspection:** Detect microscopic surface anomalies
- **Dual Imaging Modes:** Choose between reflected UV and fluorescence imaging
- **Versatile Applications:** Ideal for plastics, paints, printing, and more
- **High-Speed Compatible:** Strobe-capable for rapid inspection systems

Application Solutions

Textile & Garment Industry

Perfect for:

- Stitching inspection
- Thread verification
- Material authenticity
- Quality control

Packaging Industry

Ideal for:

- Label inspection
- Adhesive verification
- Seal integrity
- Surface defect detection
- Air pocket identification

Print & Converting

Applications include:

- Ink verification
- Coating inspection
- Security feature authentication
- Print quality control

UV LIGHTS



Implementation Guide

System Design

1. Choose Your Mode

- Reflected UV Imaging
- Fluorescence Imaging

2. Select Your Wavelength

- 365nm: Higher contrast, premium applications
- 395nm: General purpose, cost-effective

3. Add Essential Filters

- UV blocking filters for fluorescence
- Band-pass filters for specific applications
- Polarizers for enhanced contrast

Industries Served

- Automotive
- Electronics
- Medical Devices
- Pharmaceuticals
- Food and Beverage
- Security Printing
- Textile Manufacturing
- Packaging

Quality Assurance

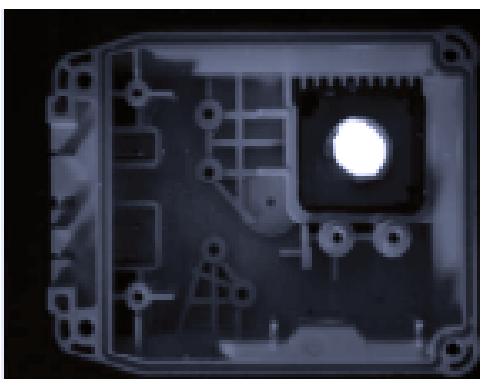
- Industrial-grade construction
- Long-life LED technology
- Uniform illumination
- Consistent performance
- Reliable operation

Investment Benefits

- Reduced inspection errors
- Increased production speed
- Lower quality control costs
- Enhanced defect detection
- Improved product quality
- Competitive advantage

Contact our technical team today to discover the perfect UV lighting solution for your specific application.

IMAGING EXAMPLE



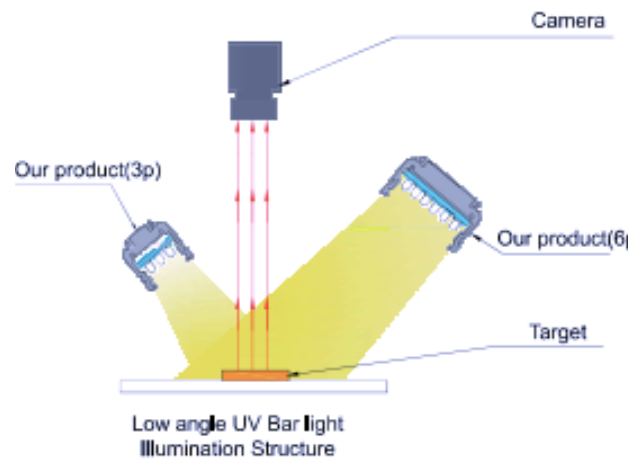
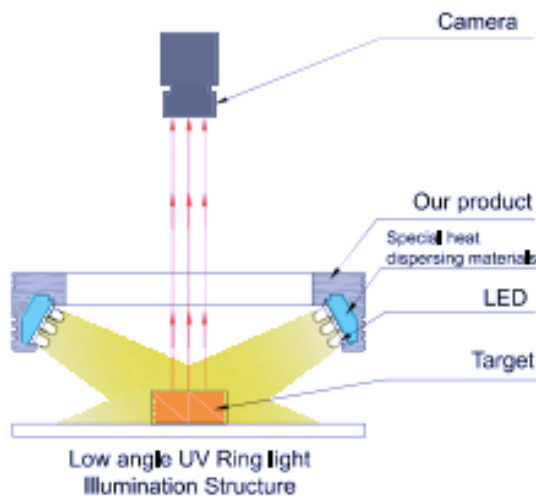
Glue detection



Lens glue profile detection

UV LIGHTS

ILLUMINATION CONSTRUCTURE



TECHNICAL INDEX

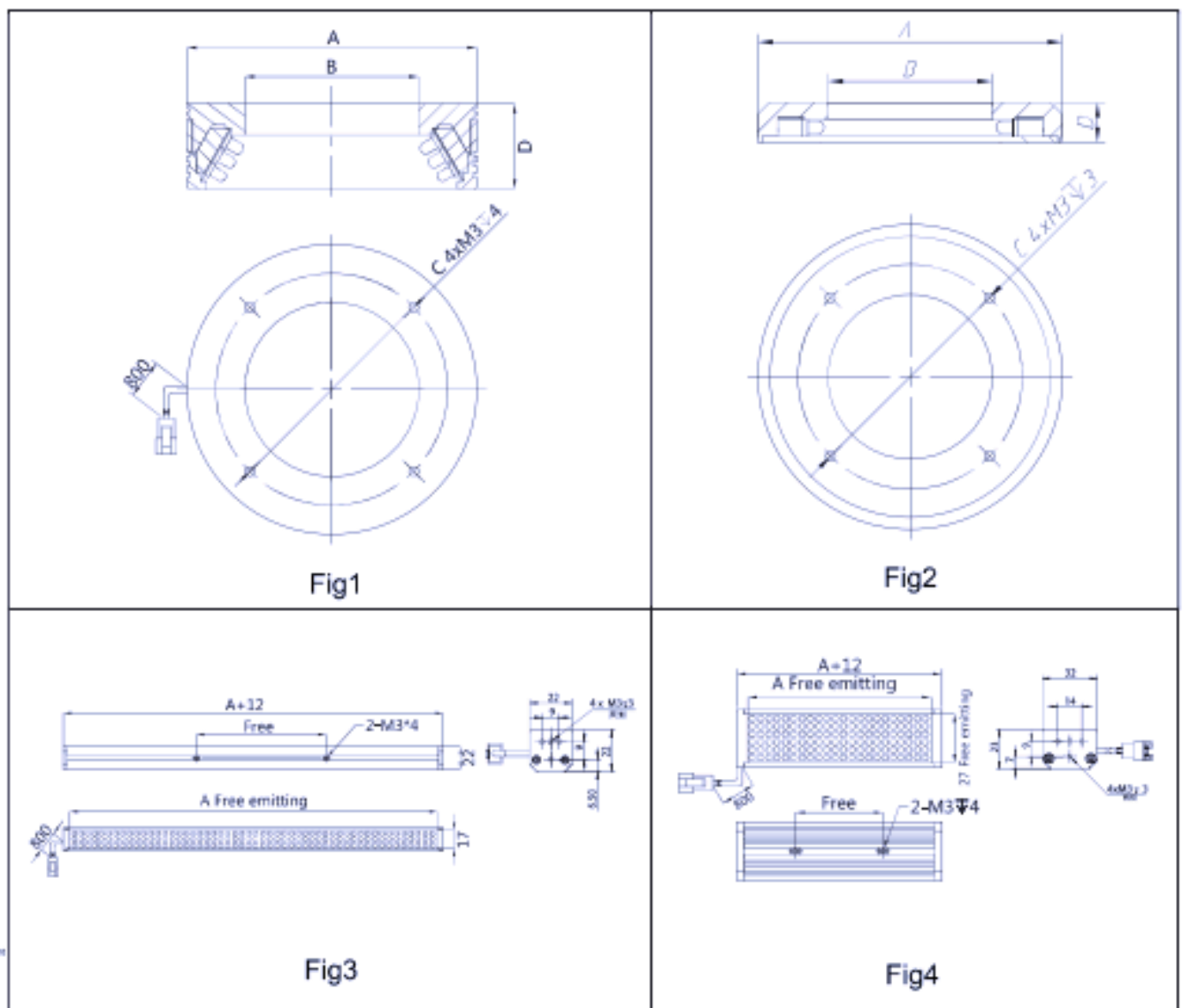
Color (Wavelength)	Red: 620-630nm	Green: 525-530nm	Blue: 465-470nm
	White Color Temperature 6600-7000K	UV: 365-395nm	IR: 850/940nm
Operating environment	Temperature: 0 to 50 C, Humidity: 20% to 85% RH		
Lifetime	100,000 Hours theoretical service time (Depends on the operating environment, not a guarantee.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

UV LIGHTS

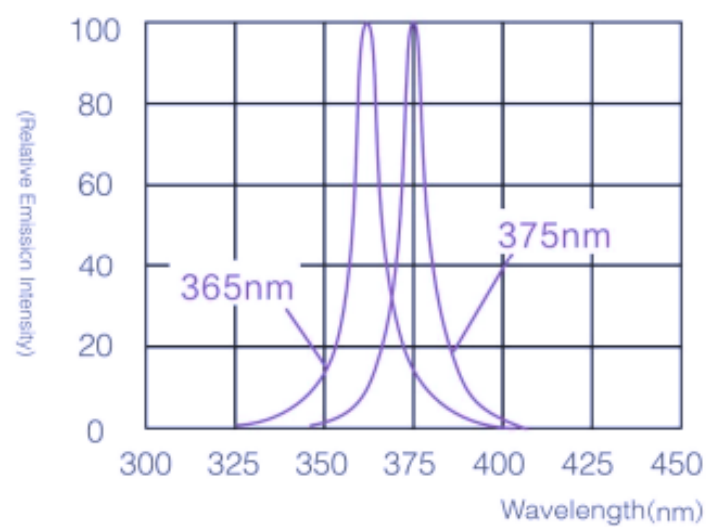
PRODUCT PARAMETERS

RING LIGHT					
Model	Voltage/Power	Weight(g)	Dimensions (in mm)		
			Outer Dia.	Inner Dia.	Thickness
PS-AR7075-UV	24V/3.9W	120	70	32	20.5
PS-AR9275-UV	24V/5.6W	176	92	47	20
PS-AR7430-UV	24V/3.4W	114	74	41	21
PS-AR9030-UV	24V/4.4W	131	90	57	20.5
PS-AR12030-UV	24V/9.5W	197	120	80	23.5
BAR LIGHT					
Model	Voltage/Power	Weight(g)	Dimensions (in mm)		
			Illumination Area	Length	Width
PS-LR-80x19-UV	24V/2.3W	56	72x17	80	19
PS-LR-86x30-UV	24V/2.5W	135	86x30	87	33.5
PS-LR-100x30-UV	24V/4.4W	163	100x30	112	33.5
PS-LR-200x30-UV	24V/8W	256	200x30	212	33.5
PS-LR-400x30-UV	24V/15W	522	400x30	412	33.5
PANEL LIGHT					
Model	Voltage/Power	Dimensions (in mm)			
PS-2FL100100-UV	24V/11.5W	114	114	20	
PS-2FL120120-UV	24V/13W	134	134	20	
PS-2FL150150-UV	24V/13.7W	164	164	21	
PS-2FL200200-UV	24V/22.5W	214	214	21	

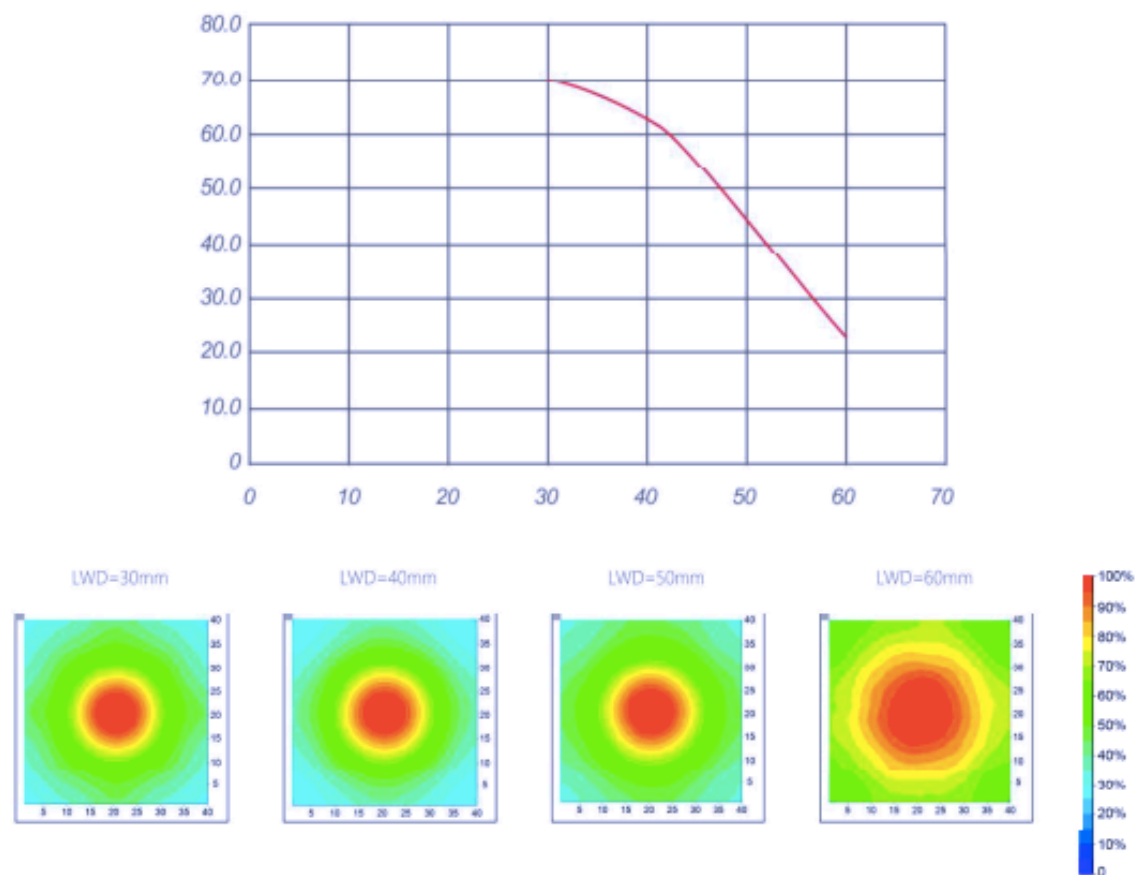
INSTALLATION DIAGRAM



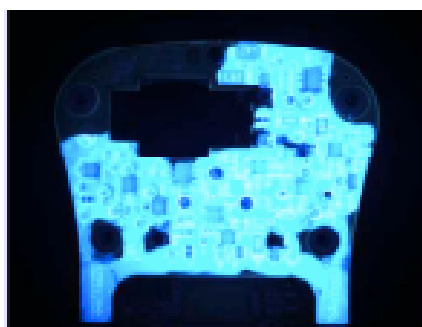
SPECTRUM CHART



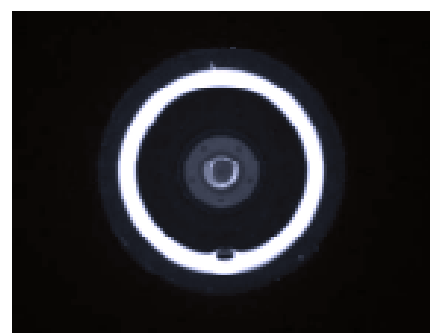
UNIFORMITY CHART



IMAGING EXAMPLE



PCB glue integrity Detection



Lens glue defect detection

CONTACT DETAILS

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

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