

INDUSTRIAL MACHINE VISION LIGHTS



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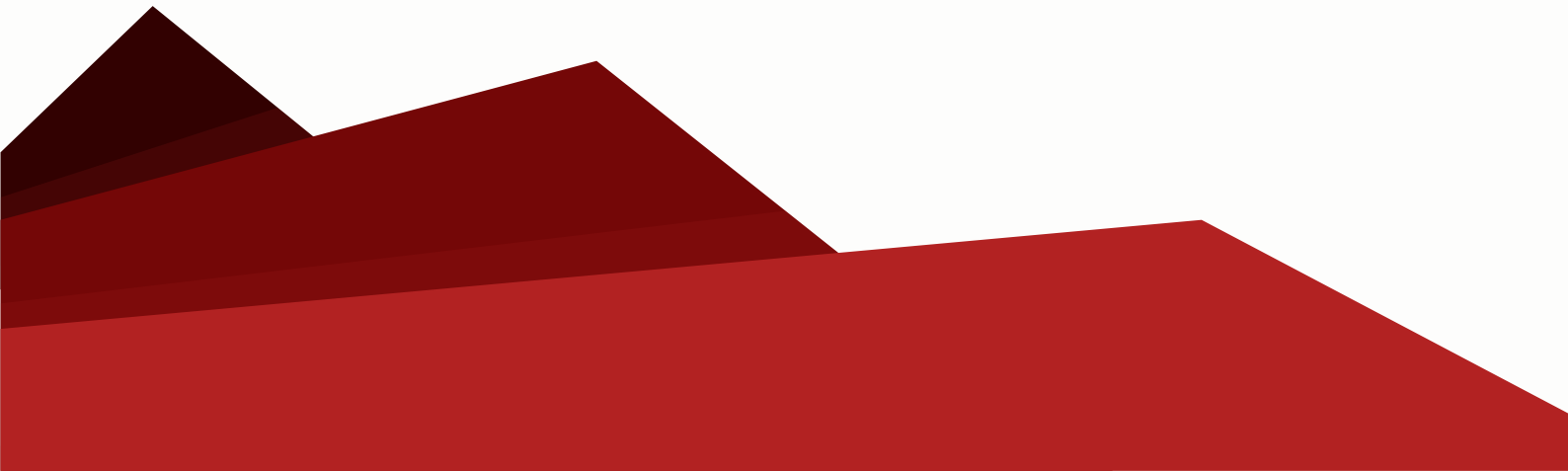
"Illuminate the Path to Precision: Unleash the Power of Industrial Machine Vision Lights"



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



IR Vision Lights: Advanced Illumination Solutions for Machine Vision

Why Choose IR Vision Lights?

Infrared lighting revolutionizes industrial inspections, offering solutions that penetrate the visible spectrum for enhanced quality control and precision.

Key Features

- **Wavelength Standards:** 850 nm and 940 nm.
- **Customizable Wavelength Options:** Tailored solutions for specific applications are available in wavelengths of 870 nm, 940 nm, 1200 nm, 1300 nm, 1450 nm, and 1680 nm.
- **Specialized Detection:** Ideal for vascular network recognition and inspection of liquid impurities.

Advantages

- Reduced interference from ambient light.
- Superior visibility of features invisible to standard lighting.
- Enhanced inspection performance in diverse environments.

Application Solutions

Automotive:

- Weld inspection.
- Paint finish analysis.
- Material authenticity verification.

Packaging:

- Seal integrity checks.
- Adhesive application verification.
- Surface defect detection.

Pharmaceuticals & Medical Devices:

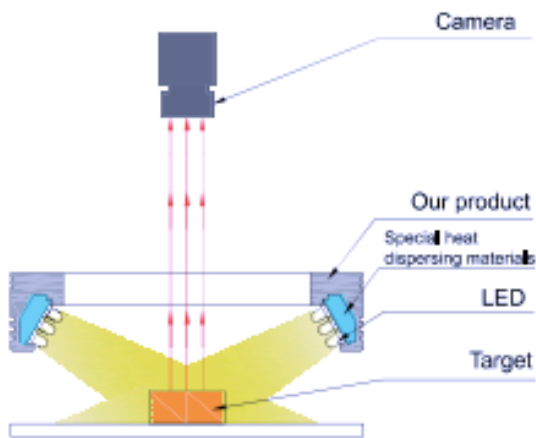
- Liquid impurity inspection.
- Vascular network detection in sensitive applications.

Electronics:

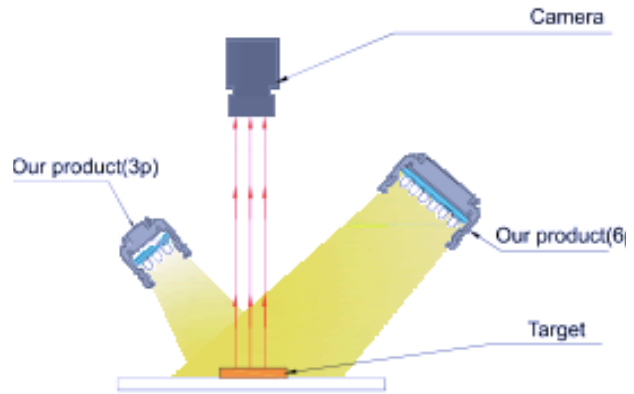
- PCB inspection.
- Component orientation detection.

IR LIGHTS

ILLUMINATION CONSTRUCTURE



Low Angle IR Ring light Illumination structure



Low Angle IR Bar light Illumination structure

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)		



IR LIGHTS

PRODUCT PARAMETERS

RING LIGHT - Ring lights provide uniform illumination, ideal for applications requiring enhanced image clarity and high precision.

Model	Voltage/ Power	Weight (g)	Wavelength	Dimensions (in mm)			
				Outer Dia.	Inner Dia.	Thickness	Reference pic.
PS-AR9290IR	24V/5.2W	216	850nm/940 nm	92	40	20	1
PS-AR7075IR	24V/3.4W	119	850nm/940 nm	70	32	20.5	2
PS-AR7430IR	24V/3.1W	103	850nm/940 nm	74	41	21	3
PS-AR9030IR	24V/3.4W	123	850nm/940 nm	90	57	20.5	4

BAR LIGHT - Bar lights ensure focused and intense illumination for linear inspection processes.

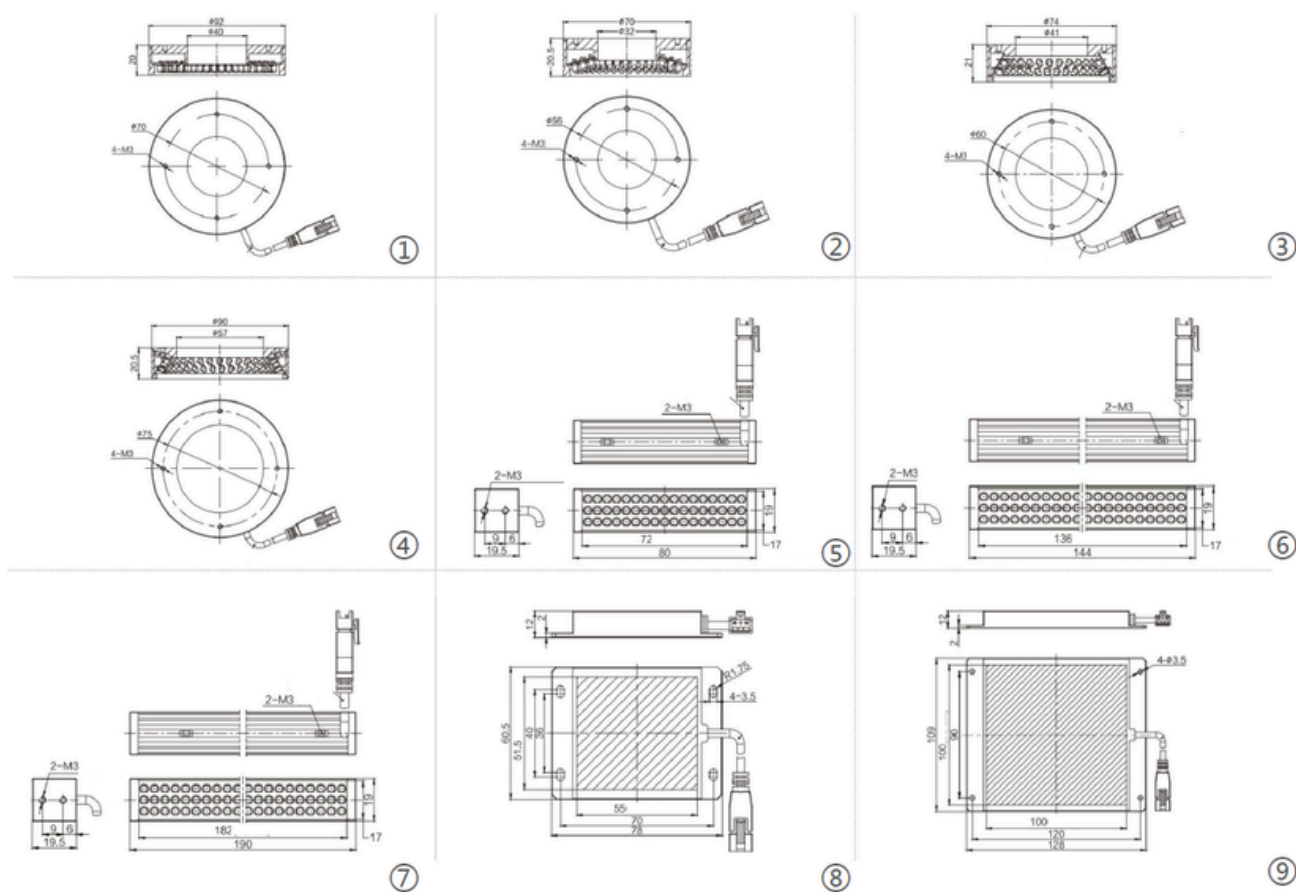
Model	Voltage/ Power	Weight (g)	Wavelength	Dimensions (in mm)			
				Illumin ation Area	Length	Width	Reference pic.
PS-LR- 80×19IR	24V/1.7W	61	850nm/940 nm	72x17	80	19	5
PS-LR- 144×19IR	24V/3W	90	850nm/940 nm	136x17	144	19	6
PS-LR- 190×19IR	24V/3.6W	107	850nm/940 nm	182x17	190	19	7
PS- H12029IR940- G2	6.5W	160	850nm/940 nm	121	132	27	11

PANEL LIGHT - Large-area illumination suitable for wide-field imaging applications.

Model	Voltage/Power		Weight (g)	Dimensions (in mm)				Reference pic.
PS-TH5050IR	24V/4.4W		67	60.5	78			8
PS-TH100100IR	24V/7.5W		152	109	128			9
Model	Power (Min)	Power (Max)	Dimensions (in mm)					Reference pic.
			A	B	C	D	E	
PS-TH120120IR	11.4W	12.6	120	120	90	16	15.5	10
PS-TH130130IR	14.6W	16.2	130	130	75	28.5	15.5	10
PS-TH150150IR	18.4W	24.3	150	150	128	16	13.5	10
PS-TH180180IR	26.3W	36.4	180	180	140	26	20	10
PS-TH200100IR	16.8W	21.6	200	100	71	19.5	15.5	10
PS-TH200200IR	33.6W	43.2	200	200	171	26	20	10
PS-TH250250IR	52.5W	67.5	250	250	160	26	20	10
PS-TH250150IR	34.6W	42.5	250	150	210	26	20	10
PS-TH280280IR	57.6W	72	280	280	240	26	20	10
PS-TH300300IR	75.6W	97.2	300	300	230	26	23	10

IR lights are available in wavelengths of 870 nm, 940 nm, 1200 nm, 1300 nm, 1450 nm, 1680 nm.

REFERENCE PICTURE:



Installation diagram

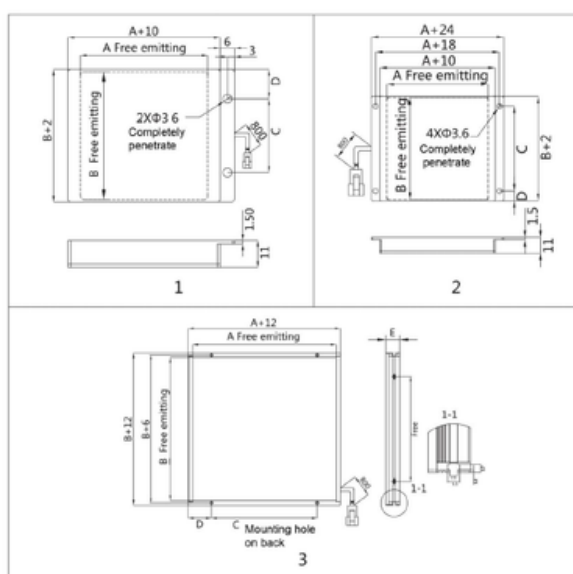


Fig.10

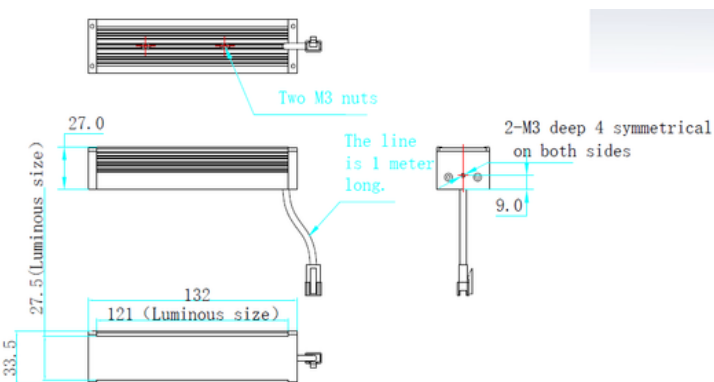
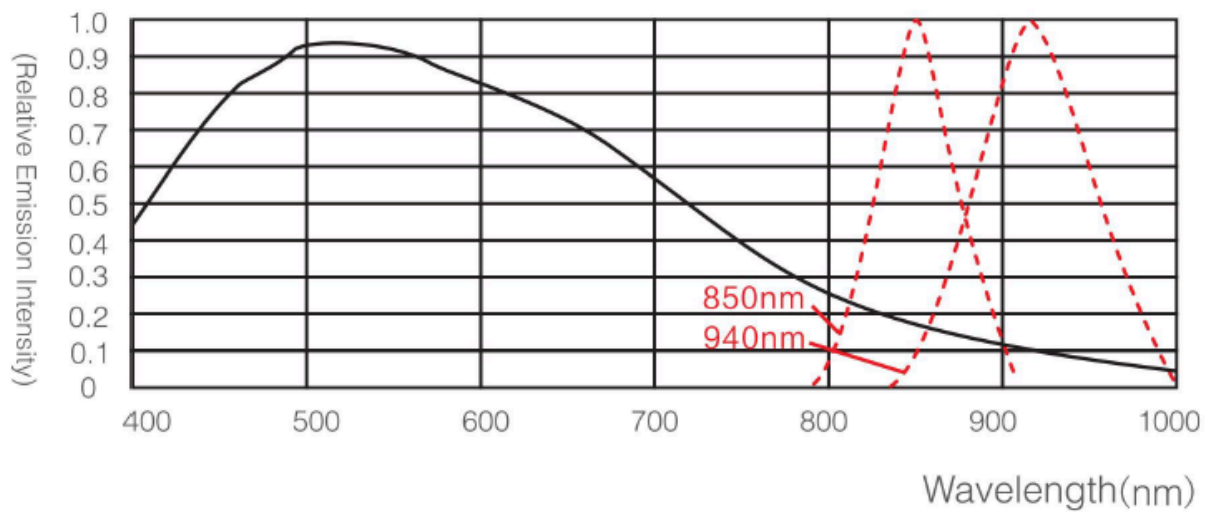


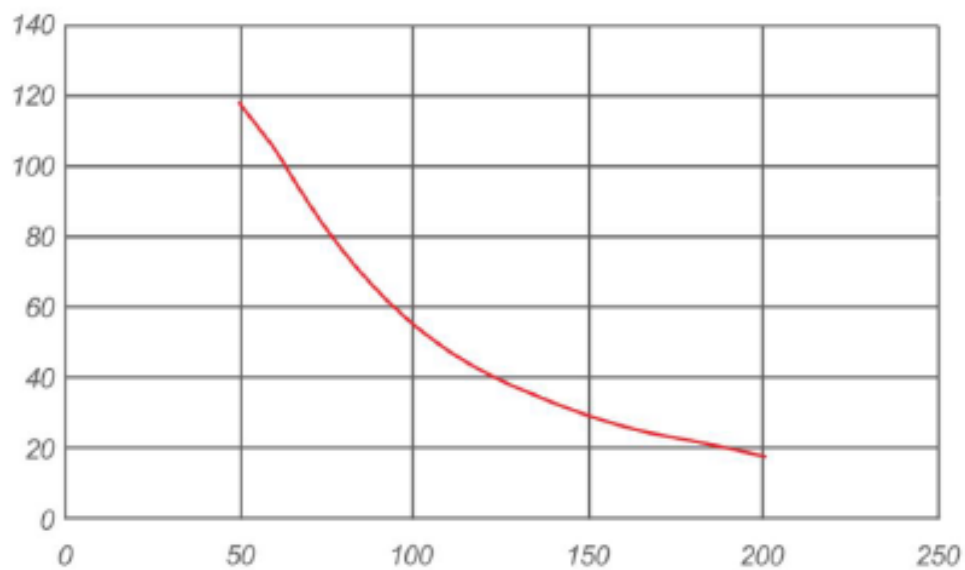
Fig.11

SPECTRUM CHART

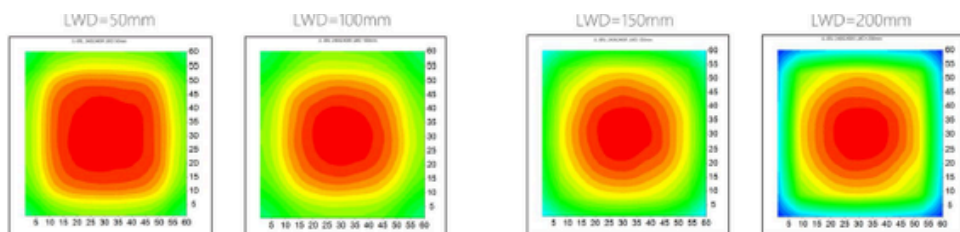


UNIFORMITY CHART

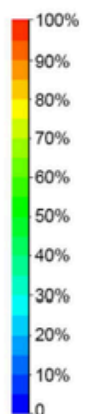
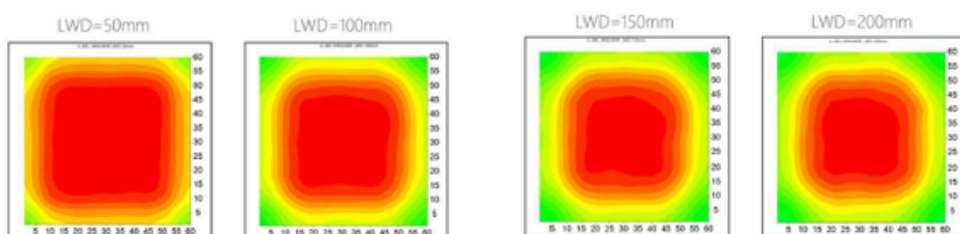
PS-BRL-100X100IR



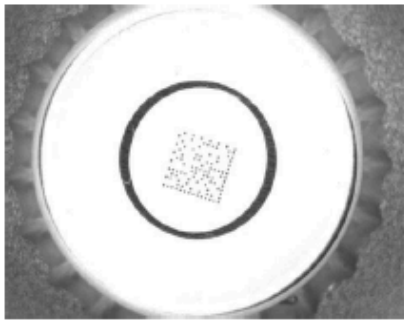
Illuminance



Brightness



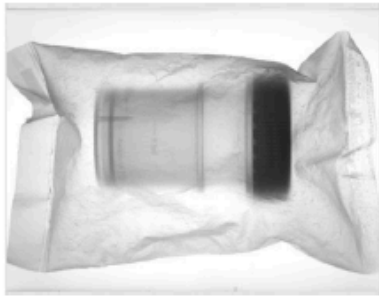
IMAGING EXAMPLE



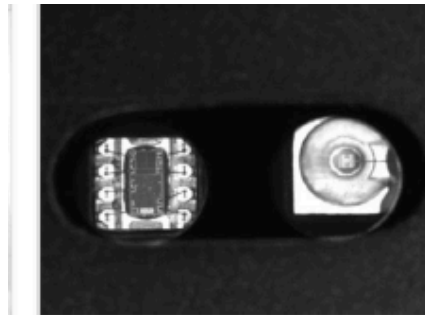
QR Code Detection



**Bottle cap production
date detection**



Direction Detection



Camera Line detection

CONTACT DETAILS

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