

INDUSTRIAL MACHINE VISION LIGHTS

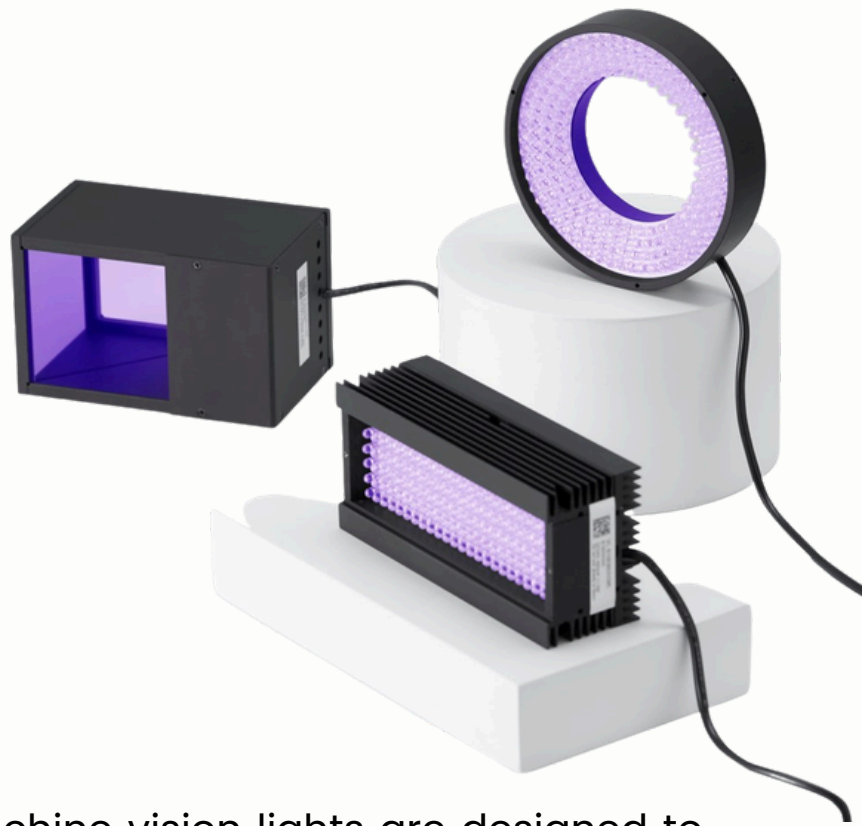


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"Illuminate the Path to Precision: Unleash the Power of Industrial Machine Vision Lights"



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

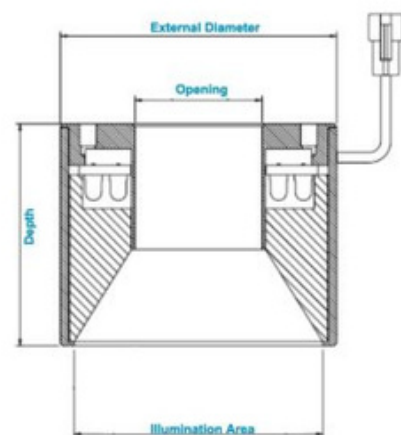
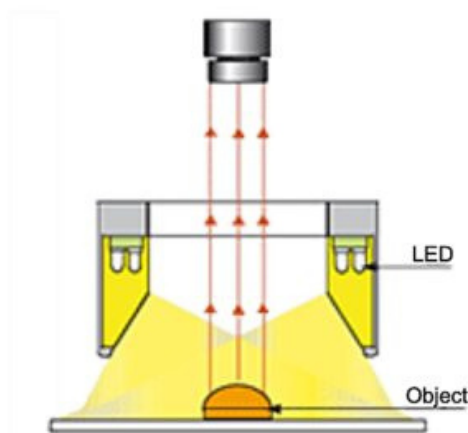
HIGH BRIGHTNESS SHADOWLESS RING LIGHTS

PS-HPDG/2RND SERIES



Ring lights offer a direct lighting method that can be used for either dark field or bright field illumination techniques depending on their angle of incidence with the object. Many Ring Lights can conveniently mount to the front of a camera lens thanks to their compact size and versatility.

These lights can be used for a wide range of working distances, as the unique design ensures little change in the uniform region as the distance from the workpiece increases or decreases. The full-color models feature independently controllable channels of red, green, and blue LEDs, while single-color red, blue, and white models are also available. High-intensity ring lights are ideal for a wide variety of detection applications, such as text recognition (OCR) and color examination.

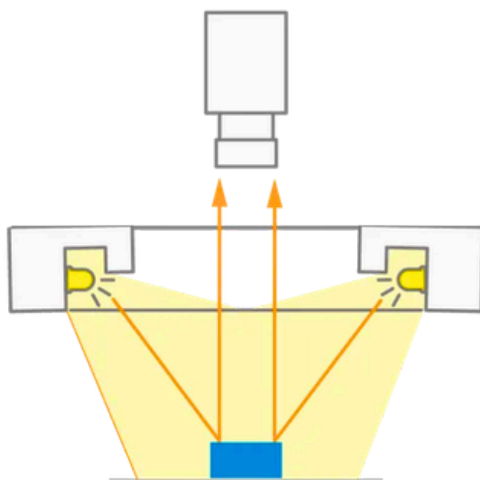


When and how to use High Brightness Shadowless Ring Lights

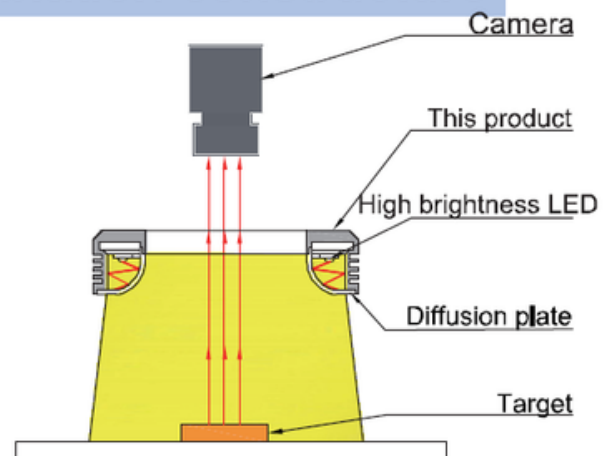
The high-brightness shadowless ring light is composed of evenly distributed LED particles passing through the light guide plate from the bottom to form a uniform diffuse light, effectively avoiding the reflection of the LED on the reflective surface. More powerful and further emitting distances are customisable.

Ring lights are suitable for many different image processing tasks. They are most commonly used as a bright field configuration in the inspection of matte, non-reflective materials.

They are suitable for more matte, non-reflective materials, perfect for character recognition, 2D code recognition, electronic components and PCBs.



Illumination constructure



DIFFUSED RING LIGHTS PS-HPDG/2RND Series

FEATURES

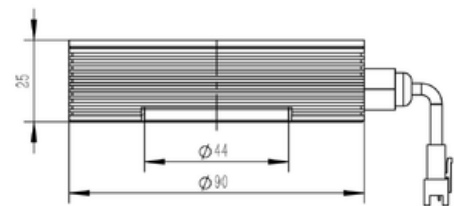
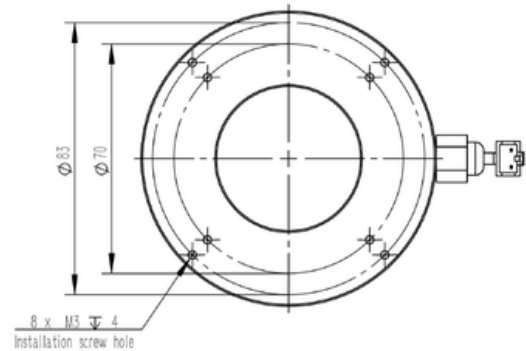
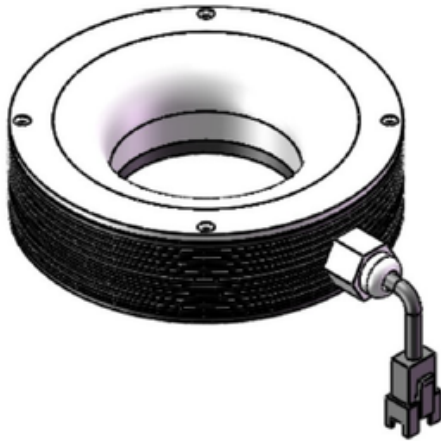
Low-angle, diffuse illumination enables characters and defects to be uniformly illuminated with no LED glare. Soft, even, and diffused lighting on shiny objects. Best for preventing the halo effect. The shadowless, low-angle square type is perfect for square-shaped objects.

APPLICATION

- Inspect the general appearance of huge products
- Inspect the package defects
- Inspect the defects of large size LCD panels
- Inspect the flatness & the true position of connector
- Inspect the surface scratches, marks, breakages, margins, etc.

DIFFUSED RING LIGHTS

PS-HPDG/2RND 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)		

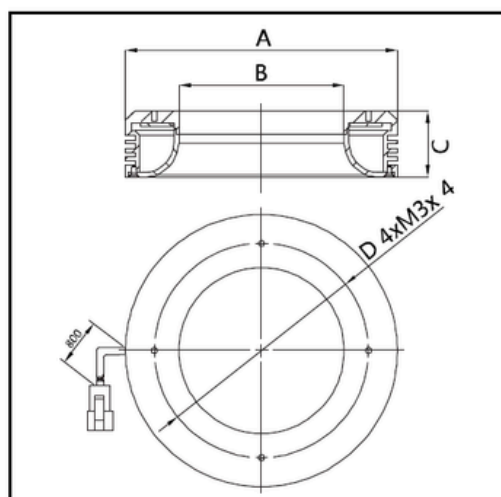
DIFFUSED RING LIGHTS

PS-HPDG/2RND SERIES

Light parameters (Voltage is 24V)

Model	Color	Power(W)	Dimensions(mm)			
		Output 	A	B	C	D
PS-HPDG50		4.2	50	14	33	40
PS-HPDG75		8.2	75	32	33	60
PS-HPDG80		10.3	80	36	33	55
PS-HPDG90		11.5	90	44	25	83
PS-HPDG115		12.2	115	70	33	100
PS-HPDG150		14.2	150	106	46	120
PS-HPDG175		16.5	177	111	46	150
PS-HPDG190		19.2	190	146	46	160
PS-HPDG200		19.4	205	148	46	160
PS-HPDG245		18.7	247	190	46	230
PS-HPDG300		18	305	247	46	270

Installation diagram



Model	Angle (°)	Color	Output				Dimensions (mm)		
			Voltage (24V) Power (W) SMD		Voltage (24V) Power (W) DIP		Internal Diameter	Outside Diameter	Thickness
				 		 			
PS- 2RND6022A 30	30	  	2.7	2.9	1.6	1.2	22	60	20
PS- 2RND7035A 30	30	  	4	4.8	1.6	2.8	35	70	22
PS- 2RND8045 A30	30	  	4.3	5.3	2.2	3.1	45	80	24
PS- 2RND9045 A30	30	  	5.8	6.9	3.1	5	45	90	25
PS- 2RND10055 A30	30	  	6.8	9	3.7	5.9	55	100	25
PS- 2RND12075 A30	30	  	8.6	9.5	4.7	7.2	75	120	25
PS- 2RND150120 A30	30	  	11.5	12.7	6.2	10.3	100	150	28
PS- 2RND180130 A30	30	  	17.3	19	10.3	15.9	130	180	28
PS- 2RND20015 8A30	30	  	19.4	23.8	11.3	18.8	158	200	28
PS- 2RND25020 8A30	30	  	25.9	28.3	14.1	22.5	208	250	28
PS- 2RND5320A 45	45	  	2.7	2.9	1.2	1.9	20	53	22
PS- 2RND6025A 45	45	  	3.4	3.8	1.3	2.2	25	60	23
PS- 2RND7035A 45	45	  	4	3.4	1.9	2.8	35	70	23
PS- 2RND8045 A45	45	  	5	5.8	2.2	3.4	45	80	23
PS- 2RND9045 A45	45	  	7.2	6.9	3.4	5.3	45	90	25
PS- 2RND10055 A45	45	  	9.4	9	3.7	5.9	55	100	25

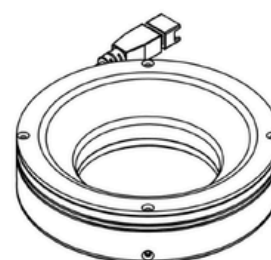
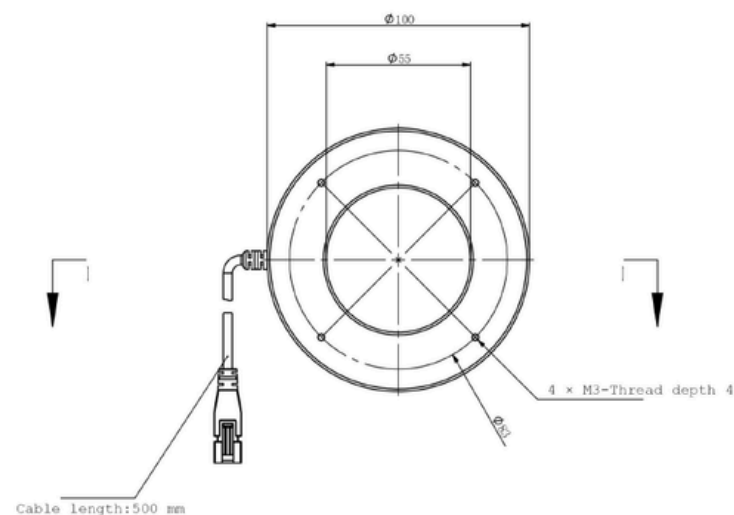
Model	Angle (°)	Color	Output				Dimensions (mm)		
			Voltage (24V) Power (W) SMD		Voltage (24V) Power (W) DIP		Internal Diameter	Outside Diameter	Thickness
				 		 			
PS- 2RND12070 A45	45	  	13	14.8	6.2	9.7	70	120	27
PS- 2RND150100 A45	45	  	15.8	19	8.1	13.1	100	150	27
PS- 2RND180130 A45	45	  	15.1	23.8	10.3	16.9	130	180	27
PS- 2RND20015 4A45	45	  	19.4	23.8	10.3	16.9	154	200	27
PS- 2RND25020 4A45	45	  	25.9	29.6	13.8	22.5	204	250	25
PS- 2RND6025A 60	60	  	2.7	2.9	1.6	2.2	25	60	22
PS- 2RND7035A 60	60	  	4	4.8	1.9	2.8	35	70	22
PS- 2RND8045 A60	60	  	4.3	5.3	2.2	3.1	45	80	22
PS- 2RND9040 A60	60	  	7.2	7.9	3.1	5	40	90	24
PS- 2RND10050 A60	60	  	7.9	8.4	3.7	5.6	50	100	25
PS- 2RND12060 A60	60	  	11.3	13.2	5.9	9	60	120	25
PS- 2RND15095 A60	60	  	13	18	8.1	12.5	95	150	25
PS- 2RND180125 A60	60	  	17.3	23.2	10	15.6	125	180	25
PS- 2RND20015 4A60	60	  	21.6	25.3	11.3	17.5	154	200	25
PS- 2RND25020 2A60	60	  	23	25.3	13.8	22.5	202	250	24
PS- 2RND60230 A90	90	  	1.9	2.9	1.2	2.2	30	60	22

DIFFUSED RING LIGHTS

PS-HPDG/2RND SERIES

Model	Angle (°)	Color	Output				Dimensions (mm)		
			Voltage (24V) Power (W) SMD		Voltage (24V) Power (W) DIP		Internal Diameter	Outside Diameter	Thickness
				 		 			
PS-2RND7040A90	90	  	2.4	3.4	1.9	2.8	40	70	22
PS-2RND8040A90	90	  	3.8	5.8	2.8	4.4	40	80	22
PS-2RND9040A90	90	  	5.3	8.2	4.1	6.6	40	90	22
PS-2RND10040A90	90	  	7.2	11.5	5.3	8.4	40	100	22
PS-2RND12050A90	90	  	8.6	13.4	6.9	10.6	50	120	22
PS-2RND15095A90	90	  	10.6	16.3	7.8	12.2	95	150	22
PS-2RND180125A90	90	  	13	20.6	9.7	15.3	125	180	22
PS-2RND200154A90	90	  	13.4	21.1	11.3	17.5	154	200	22
PS-2RND250204A90	90	  	17.3	26.9	15	22.5	204	250	20

TECHNICAL DRAWING:



This rendering is for reference only.
The actual appearance is subject to the physical product.

CONTACT DETAILS

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