

AOI Light

NV-AOI Series



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AOI light is made up of multi-angle, multi-color and high-density LED particle array, which reflects the size and slope of different surfaces at different angles.



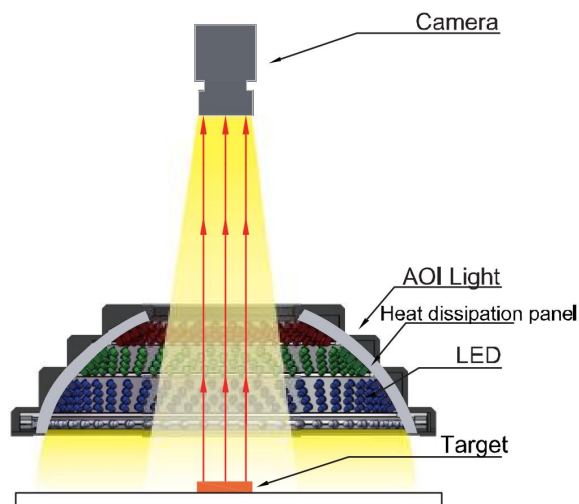
Features

- ◇ Multi-angle 4-color high density LED array shows 3D information of solder joint in multiple directions
- ◇ Multiple emitting angle combined and customizable (combine with of coaxial light will have a better effect)
- ◇ Different transmission rate diffuser plate are optional to reduce the reflection on the surface of the target object and increase the uniformity of light
- ◇ Adopted wave-soldering technology, easy installation, compact design

Application Areas

- ◇ Inspect the general appearance of huge products
- ◇ Inspect glass, paper, film
- ◇ Inspect the surface scratches, marks, breakages, margins, etc.
- ◇ Inspect the concavoconvex, point, line, scratches on the surface

Illumination constructure



Selection Guide

NV	AOI	##	R/G/B/W
New vision	AOI Line Light	Outside Diameter	Color

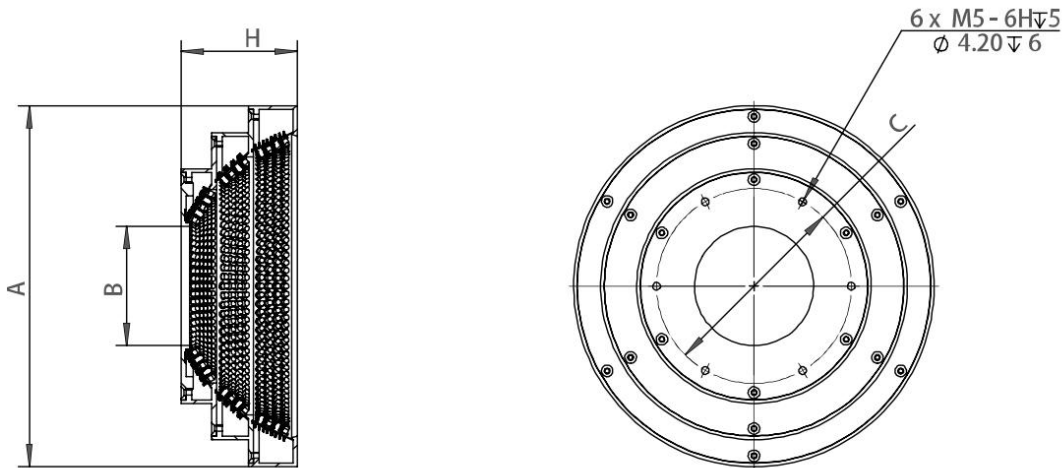
Technical Index

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		
Life time	100,000hrs theoretical service time(Depends on the operating environment, not a guarantee.)		
Compatible Controller	Analog Controller, Digital Controller		
Optional Accessory	1. Fan		
	2. Optical control film, diffuse plane (Opotional transmittance: 60%, 70%, 80%, 90%); Can make back light		
	3. Extension cable: 1m/2m/5m/10m/15m (2 kinds of materials of the shell of wire: PVC of hardness; silicone of softness.)		
Warranty	One year warranty, Free samples and technical support (buyers pay for the freight)		
Certificates	CE ROHS ISO9001 ISO14001		

Light parameters(voltage is 24V)

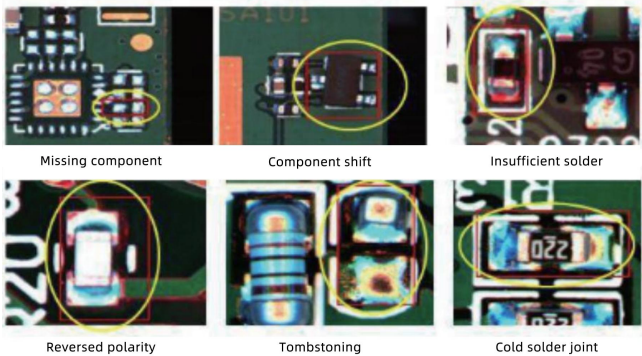
Mold	Model	Color (R/G/B/W)	Power(W)		Dimentions				Pic. No.
			RGB	RGBW	A	B	C	H	
AOI Light	NV-AOI 100-RGBW		9.2W	10.3W	100	30	50	50	1
	NV-AOI 120-RGBW		11.5W	13W	120	25	55	51.5	
	NV-AOI 140-RGBW		15.4W	16.2W	140	36	70	75	
	NV-AOI 170-RGBW		20W	24.5W	170	40	78	63	
	NV-AOI 200-RGBW		33.1W	37.8W	200	66	108	75	
	NV-AOI220-RGBW		46W	48.9W	220	66	102	66.5	
	NV-AOI 250-RGBW		54.6W	59.3W	250	84	138	78	

Installation diagram



Applications

- ◇ Inspect the PCB solder and component defects
- ◇ Model: NV-AOI200-RGBW
- ◇ The difficulty of solder spot detection of the circuit board lies in how to make solder surface of the solder better reflect the lens and extract better slope information. AOI tri-color or four-color light can better reflect product information from multiple angles, combination of different colors and multiple directions.



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