

AOI light (AOI)

LS-AOI-T series · Custom lights · 7 models



Uses high-luminance straight-through LEDs with even distribution; with multiple angles whose luminance can be controlled independently, it suits various applications. Installation method and lamp bead angle can be customized.

Features

- High luminance straight-through LED, equal distribution
- Multiple angles, luminance controlled independently
- Customizable installation method and lamp bead angle

Applications

- Mobile glass screen scratch inspection
- Silicon seal defect inspection
- PCB tin soldering inspection
- Battery tin soldering point inspection
- Imaging example: PCB soldering point inspection (LS-AOI160-RGB)

Colours

R	620-630 nm
G	525-530 nm
B	465-470 nm
W	6600 K

Common specifications

Voltage	24 V
Adapted controller	Strobe controller, analog controller, digital controller
Customizable	emitting angle, outer and inner diameter, light array quantities, colour and colour temperature, multi-area control, cable length, installation method
Cable (mm)	500 (drawings)
Operating temperature	0-50 °C

Operating humidity	20-85% (non-condensing)
Life span	50000 h (to 50% of factory-default luminance)
Extension cable options	PVC extension cable (high flexibility, bending and heat resistant, for use inside equipment) or high-flexibility extension cable (harder and more abrasion resistant than PVC, for drag-chain production lines)
Custom wavelengths	UV & IR light can be customized as required

Ordering code: LS-AOI<outer diameter>-<R/G/B/W/IR/UV>

Models

Model	Power (W)	Weight (g)	Outer dia. (mm)	Height (mm)	Dimension drawing	Common	Remark
LS-AOI60 colours: R, W	1.7	165	60	34	1	N	With area scan inspection
LS-AOI80 colours: UV, W	4.8	175	80	22	2	N	With area scan inspection
LS-AOI100 colours: R, W	4.3	729	100	33	3	Y	With area scan inspection
LS-AOI160 colours: R, G, B	28	1215	160	55	4	Y	With area scan inspection
LS-AOI180 colours: W	26	1760	180	90	5	N	With area scan inspection
LS-AOI275 colours: W	61.2	2397	275	60	6	N	With area scan inspection
LS-RNBRH280 colours: R, G, B	62.4	6500	-	-	7	N	With line scan inspection

More values per model (Inner (aperture) dia. (mm), Ring angles (deg), Mounting) are on each product page.

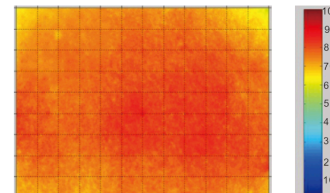
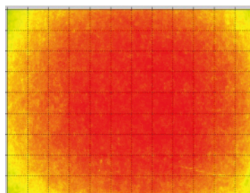
Dimensions





The graph shows the relationship between working distance (WD) and illumination. The y-axis represents Illumination in Lux (LX), ranging from 0 to 350,000. The x-axis represents WD in millimeters (MM), ranging from 0 to 300. The curve starts at 250,000 LX at 0 MM, reaches a maximum of about 330,000 LX at 25 MM, and then drops sharply, reaching approximately 100,000 LX at 75 MM and continuing to decline towards 0 LX as WD increases to 300 MM.

WD [MM]	Illumination [LX]
0	250000
25	330000
50	200000
75	100000
100	50000
150	10000
200	2000
300	0



*Above diagram only for reference.