

AOI light (HSAI)

LS-HSAI series · Custom lights · 5 models

AOI light made of red, green and blue high-brightness LED arrays that light the object at different angles and in different colours to show its three-dimensional information. Detects missing parts, wrong parts, skew, missing solder, cold solder, excess and insufficient solder, bridging and polarity errors on PCBs. Can be combined with a coaxial light.

Features

- Multi-colour, multi-angle illumination that accurately brings out surface layer information

Applications

- Solder quality of electronic components, including silk-screen characters, component presence, cold solder, missing solder, bridging and solder offset
- Scratches on metal surfaces; fine scratches and dents on highly reflective objects
- Surface defects on rubber rings; scratches and dirt on filter surfaces



Colours

R	620–630 nm
G	525 nm
B	470 nm

Common specifications

Colours	RGB (three rings)
Cable length (mm)	500
Operating environment	Ambient about 25 °C, operating temperature within 35 °C
Expected life	Red and white: 30000 h continuous, decays to 50% (typical one-year decay 8–15%); blue and green: 30000 h continuous, decays to 60% (typical one-year decay 10–18%)
Support	1 year of free standard technical support; can be customised to the inspected feature, working distance, illumination angle and field of view

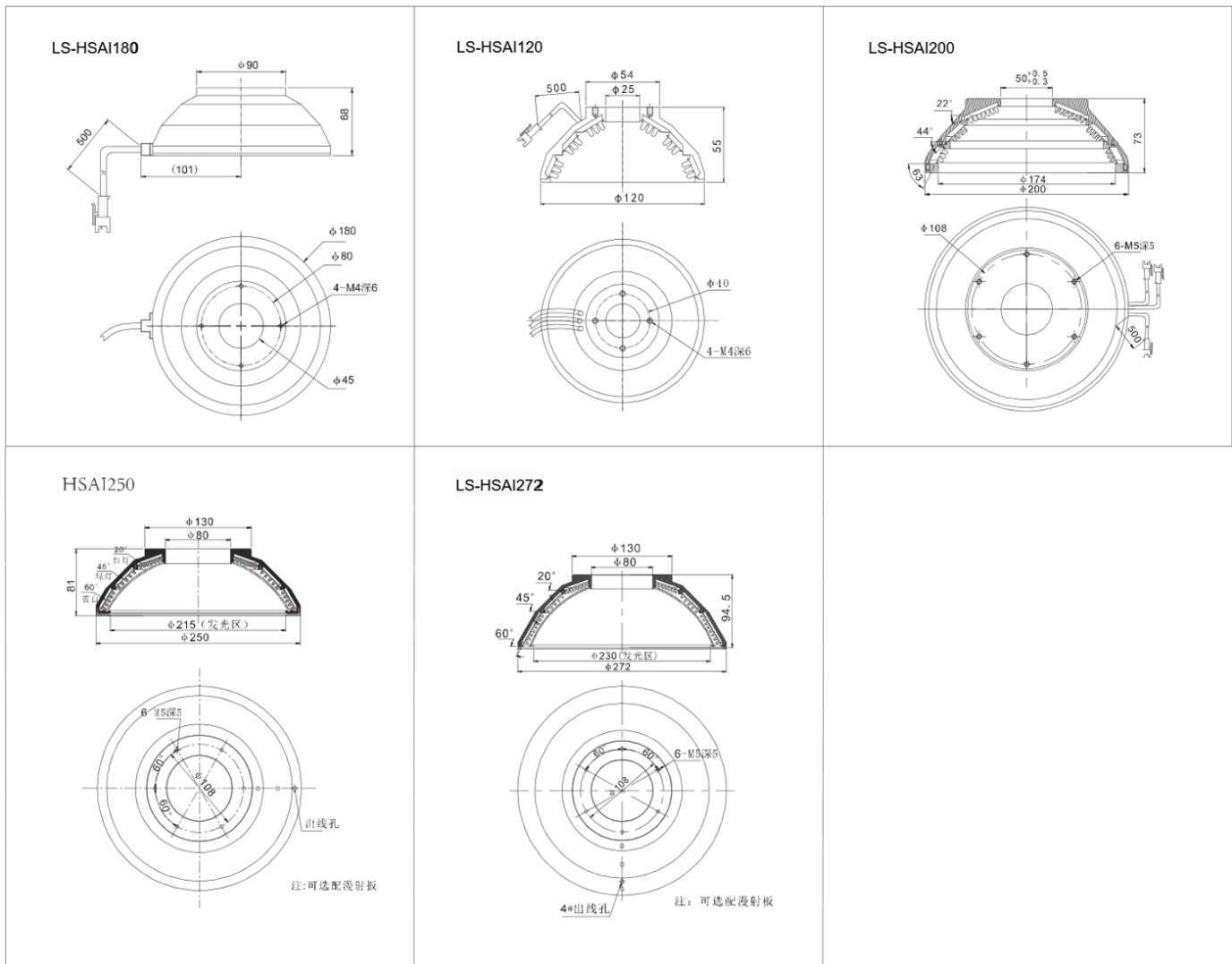
Ordering code: H-SAI-<max. outer dia. mm>-5-D-<colour> (example H-SAI-120-5-D-W; D = ABS material, P = upgraded version)

Models

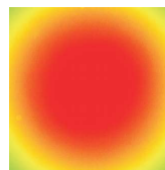
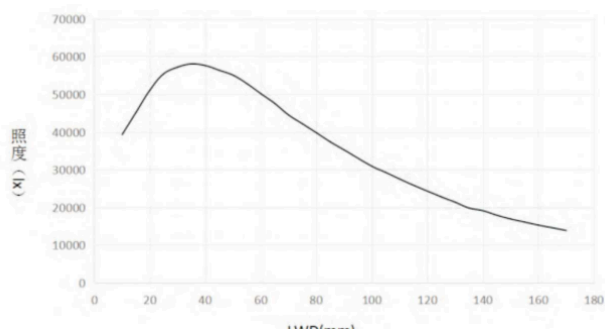
Model	Outer diameter (mm)	Inner diameter (mm)	Power (W)	Recommended controllers	Height (mm, drawing)
LS-HSAI180- RGB colours: R, G, B	180	45	55	HAPC2460P / HMDPC2480 / HDPC2465D	68
LS-HSAI120- RGB colours: R, G, B	120	25	21	HAPC2460P / HMDPC2480 / HDPC2465D	55
LS-HSAI200- RGB colours: R, G, B	200	50	35	HAPC2460P / HMDPC2480 / HDPC2465D	73
LS-HSAI250- RGB colours: R, G, B	250	80	90	HAPC24120P / HSPC24100D	81

LS-HSAI272- RGB colours: R, G, B	272	80	66	HAPC24120P / HSPC24100D	94.5
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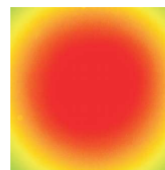
Dimensions



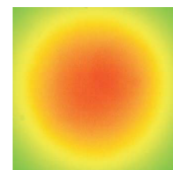
Performance



工作距离: 80mm



工作距离: 100mm



工作距离: 120mm