

High-definition coaxial light (COS-ZT)

LS-COS-ZT series · Coaxial lights · 4 models

Coaxial light with a light path and optical design different from conventional coaxial lights, eliminating the ghosting caused by refraction and transmission in the light path, so images stay sharp without distortion at small fields of view and high magnification. Can be made in different wavelengths.

Features

- Light path and optical design different from conventional coaxial lights
- Eliminates ghosting caused by light-path refraction and transmission
- Small field of view and high-magnification imaging stay sharp without distortion
- Can be customised to different wavelengths

Applications

- Phone screen positioning
- Camera module appearance inspection
- Ceramic capacitor appearance inspection
- PCB Mark positioning
- Glass surface defect inspection
- Chip edge positioning
- Inductor surface defect inspection
- Hardware part positioning



Colours

R	620-630 nm
G	520-530 nm
B	465-475 nm
W	6000-6500 K

Common specifications

Wavelength red	620-630 nm
Wavelength green	520-530 nm
Wavelength blue	465-475 nm
Colour temperature white	6000-6500 K
Wavelength IR	850-940 nm
Wavelength UV	365-405 nm
Storage temperature	20 to 60 °C
Operating temperature	0 to 40 °C
Humidity	20-85 %RH (non-condensing)
Optional accessories	Extension cable
Service life (red)	60000 h continuous at 25 °C, 50% illumination, to 50% decrement
Service life (white)	30000 h continuous at 25 °C, 50% illumination, to 50% decrement
Warranty	1 year from shipment (faults not caused by the user: free repair or replacement)
Controller	LS-DPS series, LS-APS series, LS-SPS series (the selected controller must match the light power)
Illuminance chart reference	LS-COS30-W-ZT; uniformity LS-COS30-W-ZT, FOV 50 x 50 mm at LWD 5/10/15 mm

Ordering code: LS-COS<emitting size mm>-<R/G/B/W>-ZT (catalog example LS-COS30-W-ZT: brand - coaxial light - emitting size (mm) - colour R, G, B, W etc. - ZT = high-definition coaxial light)

Models

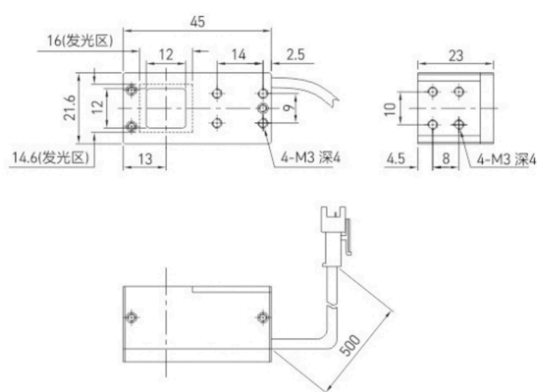
Model	Power R (W)	Power G/B/W (W)	Luminous size (mm)	L (mm)	W (mm)	H (mm)
LS-COS14-R/G/B/W-ZT colours: R, G, B, W	0.9	0.9	16 x 14.6	45	21.6	23
LS-COS18-R/G/B/W-ZT colours: R, G, B, W	0.9	1.8	19 x 19	53.7	30	27
LS-COS30-R/G/B/W-ZT colours: R, G, B, W	2.7	4.5	30 x 30	56	38	36
LS-COS40-R/G/B/W-ZT colours: R, G, B, W	2.7	5.4	39 x 38	70	46	47

More values per model (Recommended controller, Cable length (mm, drawing)) are on each product page.

Dimensions

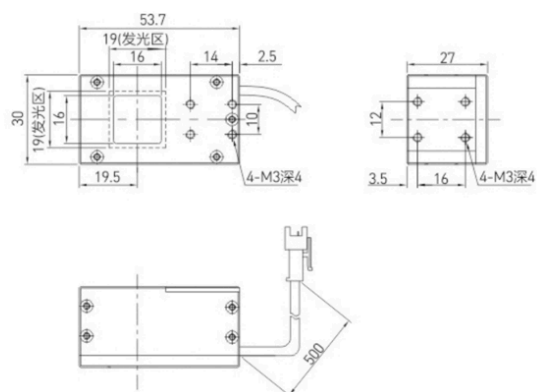
LS-COS14-ZT

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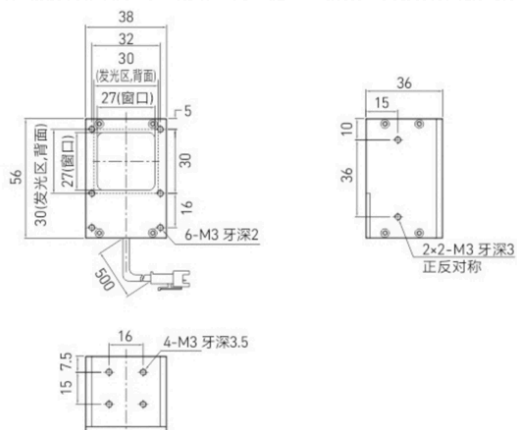
LS-COS18-ZT

2



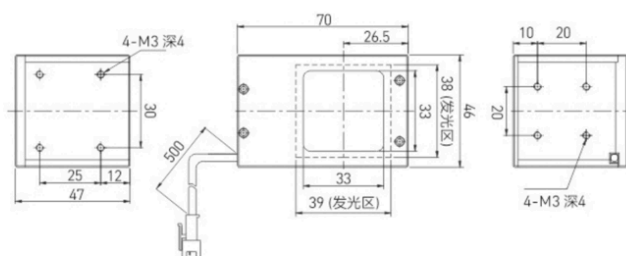
LS-COS30-ZT

3

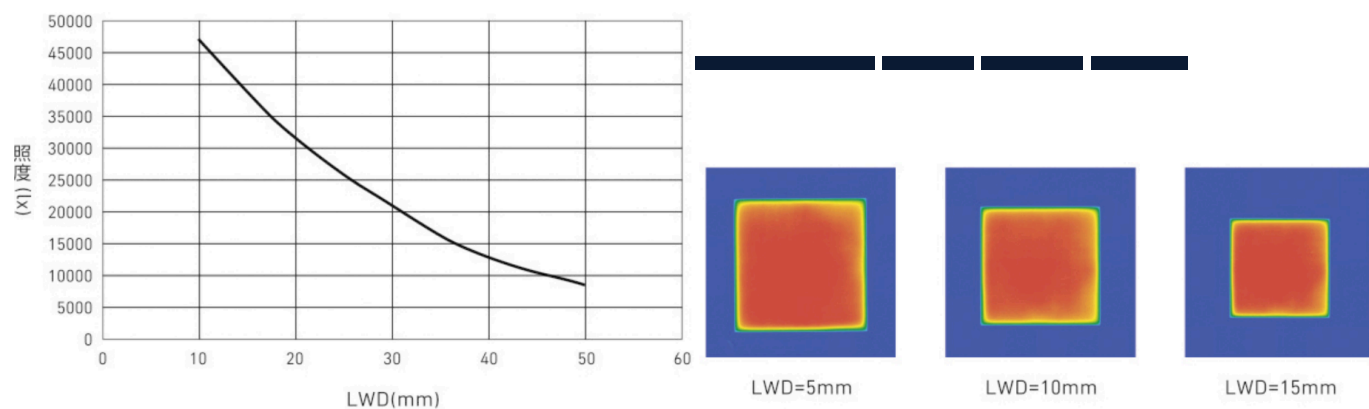


LS-COS40-ZT

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Performance



Product views

