

Parallel back light source (PHFS)

LS-PHFS series · Backlights · 15 models

Parallel backlight with high-density LEDs distributed across the bottom; special optical material and a simple structure eliminate shadows, for high-precision dimension measurement.

Features

- High density LED distributed at the bottom of the light source
- Good uniformity, soft and natural light, high brightness
- Flexible size, convenient customization, wide range of applications
- Various installation methods for convenient mounting
- Special optical material design, simple structure, can eliminate the shadow



Applications

- High precision dimension measuring
- Inspection of foreign matter on metal surface
- Inspection of glue on metal surface
- Glass vessel inspection
- Screen positioning and fitting
- Optical fibre alignment
- Hardware products measuring
- Spring interval measuring

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
Controller	LS-DPS series, LS-APS series, LS-SPS series (the selected controller should match the power of the light source)
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)
Illuminance chart reference	LS-PHFS150100-B; uniformity at LWD 100 mm, FOV 140 x 140 mm

Ordering code: G-[version]PHFS<luminous length mm><luminous width mm>-<R/G/B/W> (e.g. LS-2PHFS5050-R)

Models

Model	Power R (W)	Power G/B/W (W)	Luminous size (mm)	Overall L (mm)	Overall W (mm)	Overall H (mm)
LS-PHFS2727-R/G/B/W colours: R, G, B, W	0.9	1.7	27 x 27	37	37	17.3
LS-PHFS4828-R/G/B/W colours: R, G, B, W	1.3	1.7	48 x 28	58	30	20.6
LS-PHFS5050-R/G/B/W colours: R, G, B, W	3	3	50 x 50	78	64	21.5
LS-PHFS10050-R/G/B/W colours: R, G, B, W	3.8	5.5	100 x 50	140	70	21.5
LS-PHFS100100-R/G/B/W colours: R, G, B, W	8.9	11	100 x 100	135	115	22
LS-PHFS120120-R/G/B/W colours: R, G, B, W	11	12	120 x 120	155	135	21
LS-PHFS150100-R/G/B/W colours: R, G, B, W	11	16	150 x 100	180	114	20
LS-PHFS200200-R/G/B/W colours: R, G, B, W	26	42	200 x 200	234	214	21.5
LS-PHFS228158-R/G/B/W colours: R, G, B, W	24	34	228 x 158	240	170	21.5
LS-PHFS250250-R/G/B/W colours: R, G, B, W	38	48	250 x 250	285	265	24
LS-2PHFS2727-R/G/B/W colours: R, G, B, W	0.9	1.7	27 x 27	39	41	18
LS-2PHFS5050-R/G/B/W colours: R, G, B, W	3	3	50 x 50	64	64	21
LS-2PHFS100100-R/G/B/W colours: R, G, B, W	8.9	11	100 x 100	114	114	21
LS-2PHFS180150-R/G/B/W colours: R, G, B, W	20	34	180 x 150	194	164	21

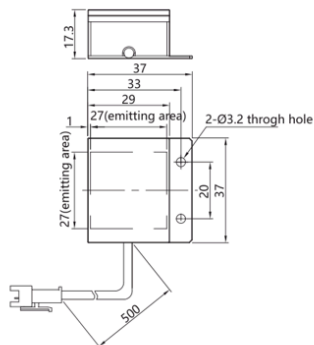
LS-2PHFS300200-R/G/B/W colours: R, G, B, W	36	51	300 x 200	314	214	21
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More values per model (Recommended controller) are on each product page.

Dimensions

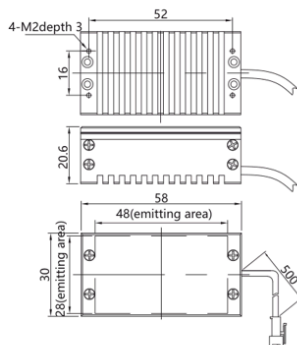
LS-PHFS2727

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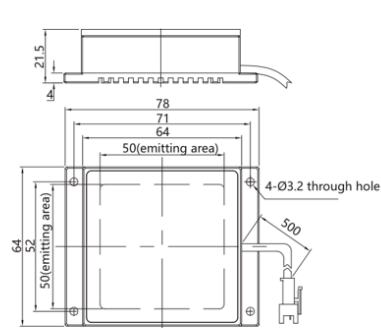
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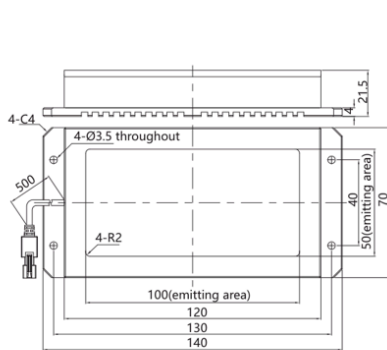
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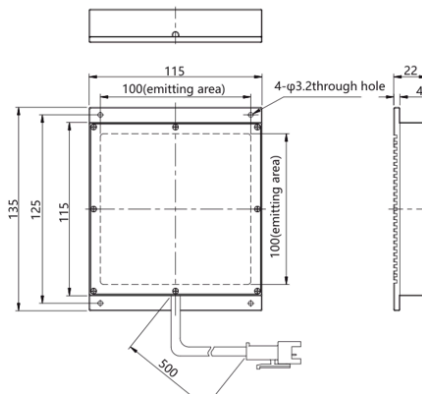
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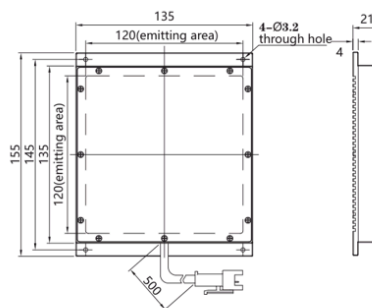
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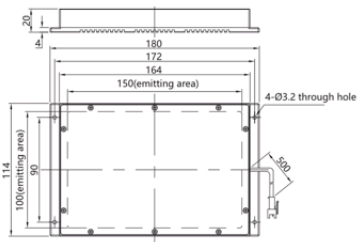
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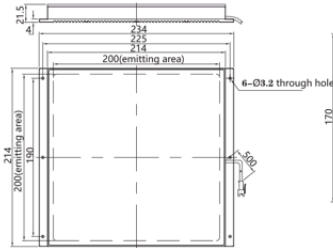
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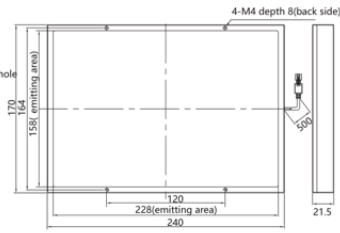
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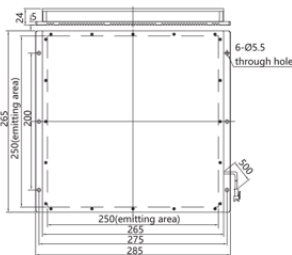
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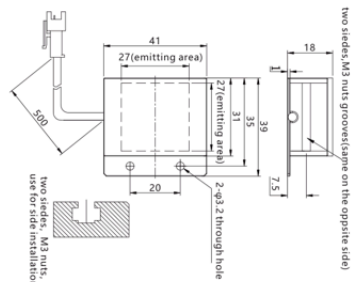
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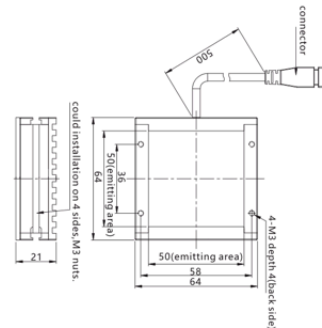
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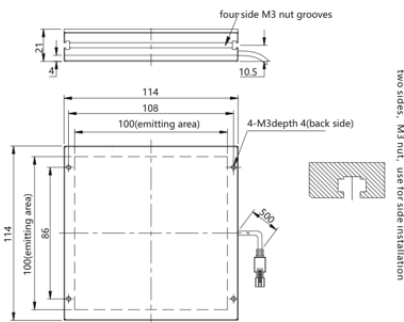
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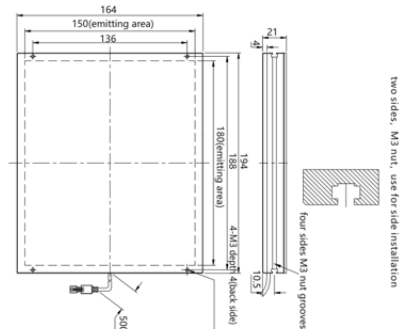
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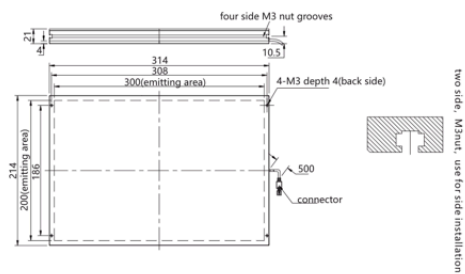
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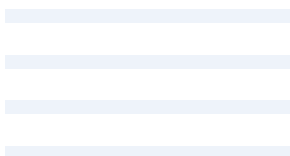


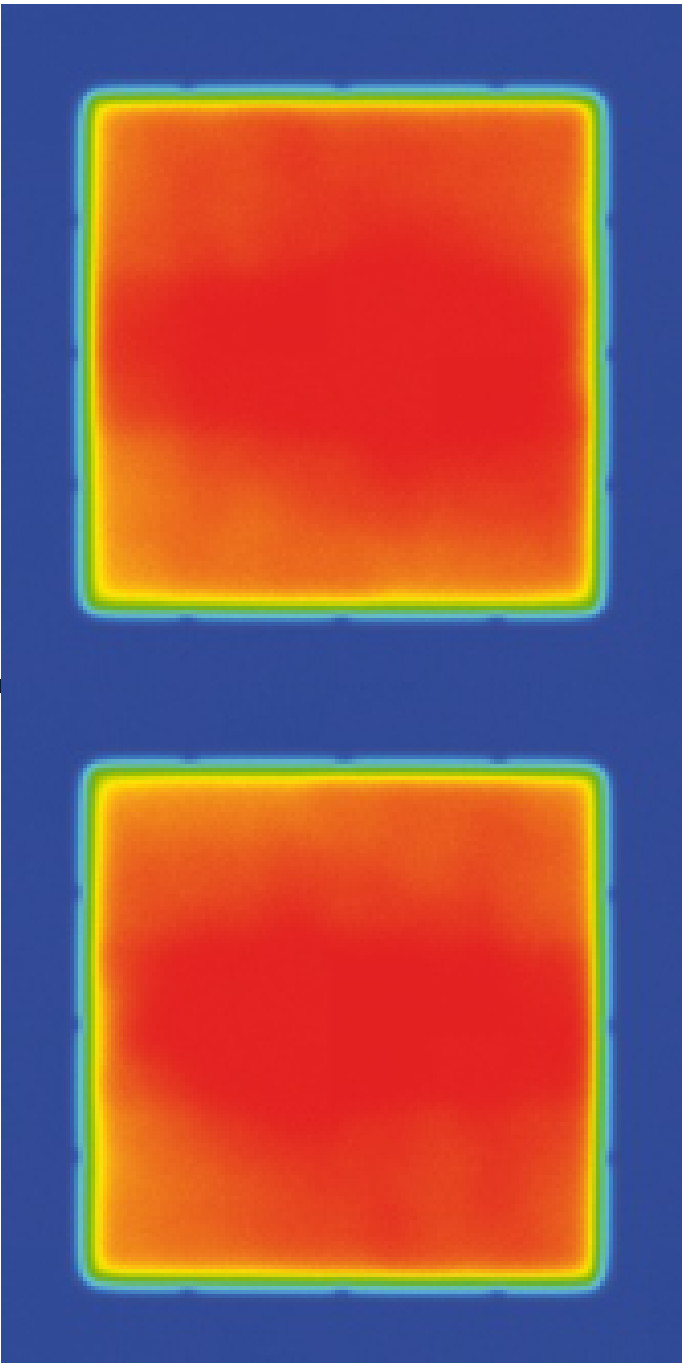
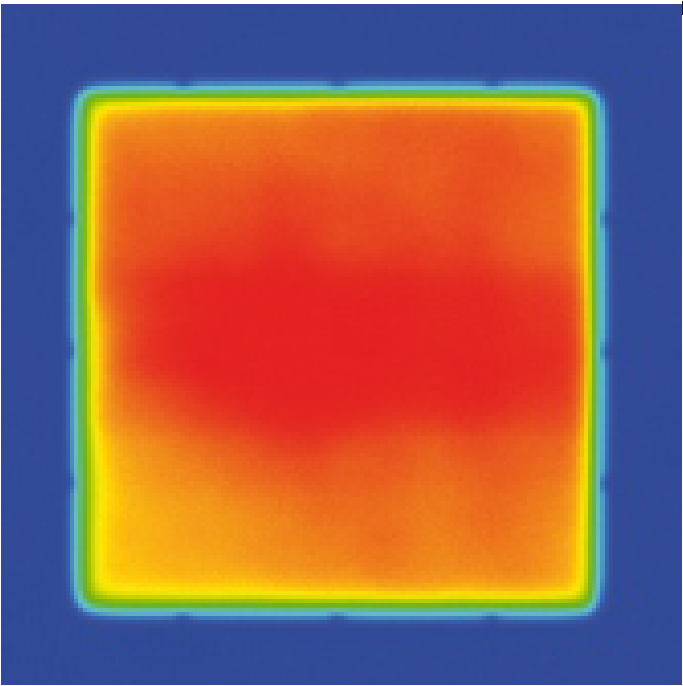
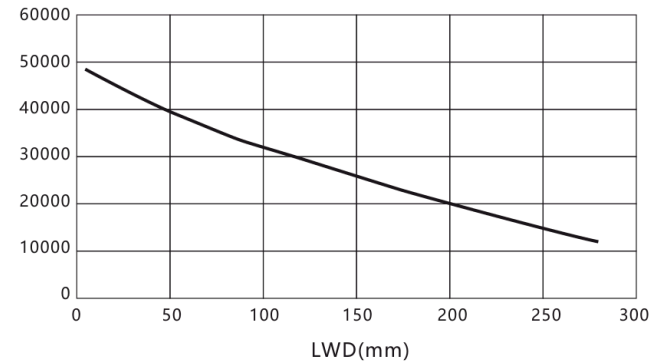
LS-2PHFS300200

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Performance





Product views

