

Back light source (HFS)

LS-HFS series · Backlights · 18 models

Backlight with high-density LEDs distributed across the bottom of the light source, giving good uniformity and soft, natural, high-brightness light. Flexible sizes with easy customization and several mounting methods.

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

Applications

- Liquid level inspection
- Dimension measuring
- Liquid foreign matter inspection
- Burr inspection for metal profile
- Appearance inspection
- Dimension measuring for workpiece
- Inspection for surface scratches of transparent objects and internal foreign matter
- Film stain inspection



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-2HFS100100-W; uniformity at LWD 100 mm, FOV 140 x 140 mm

Ordering code: G-[version]HFS<luminous length mm><luminous width mm>-<R/G/B/W> (e.g. LS-2HFS5050-R; 'G' in G = overseas version)

Models

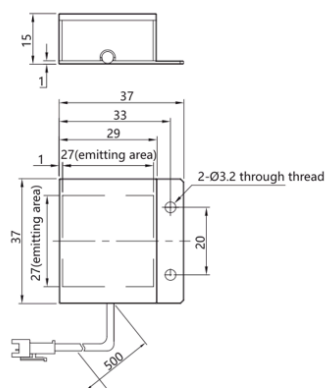
Model	Power R (W)	Power G/B/W (W)	Luminous size (mm)	Overall L (mm)	Overall W (mm)	Overall H (mm)	Recommended controller
LS-HFS2727-R/G/B/W colours: R, G, B, W	0.9	1.7	27 x 27	37	37	15	LS-DPS, LS-APS, LS-SPS
LS-HFS4828-R/G/B/W colours: R, G, B, W	1.3	1.7	48 x 28	58	30	18	LS-DPS, LS-APS, LS-SPS
LS-HFS5050-R/G/B/W colours: R, G, B, W	3	3	50 x 50	78	64	19	LS-DPS, LS-APS, LS-SPS
LS-HFS7070-R/G/B/W colours: R, G, B, W	3.8	6.3	70 x 70	98	84	19	LS-DPS, LS-APS, LS-SPS
LS-HFS100100-R/G/B/W colours: R, G, B, W	8.9	11	100 x 100	135	115	19	LS-DPS, LS-APS, LS-SPS
LS-HFS120120-R/G/B/W colours: R, G, B, W	11	12	120 x 120	155	135	19	LS-DPS, LS-APS, LS-SPS
LS-HFS150100-R/G/B/W colours: R, G, B, W	11	16	150 x 100	180	114	19	LS-DPS, LS-APS, LS-SPS
LS-HFS200150-R/G/B/W colours: R, G, B, W	17	25	200 x 150	184	214	19	LS-DPS, LS-APS, LS-SPS
LS-HFS200200-R/G/B/W colours: R, G, B, W	26	42	200 x 200	234	214	19	LS-DPS, LS-APS, LS-SPS
LS-HFS250250-R/G/B/W colours: R, G, B, W	38	48	250 x 250	285	265	20	LS-DPS, LS-APS, LS-SPS
LS-HFS260200-R/G/B/W colours: R, G, B, W	31	44	260 x 200	305	215	21	LS-DPS, LS-APS, LS-SPS
LS-HFS300300-R/G/B/W colours: R, G, B, W	61	101	300 x 300	333	313	24.3	LS-HAPS (dia. 19)
LS-HFS500400-R/G/B/W colours: R, G, B, W	121	174	500 x 400	539	414	26.3	LS-HAPS (dia. 19)
LS-2HFS2727-R/G/B/W colours: R, G, B, W	0.9	1.7	27 x 27	41	39	16	LS-DPS, LS-APS, LS-SPS

LS-2HFS5050-R/G/B/W colours: R, G, B, W	1.7	3	50 x 50	64	64	19	LS-DPS, LS-APS, LS-SPS
LS-2HFS100100-R/G/B/W colours: R, G, B, W	6.8	11	100 x 100	114	114	19	LS-DPS, LS-APS, LS-SPS
LS-2HFS180150-R/G/B/W colours: R, G, B, W	21	34	180 x 150	194	164	19	LS-DPS, LS-APS, LS-SPS
LS-2HFS300200-R/G/B/W colours: R, G, B, W	38	63	300 x 200	314	214	19	LS-DPS, LS-APS, LS-SPS

Dimensions

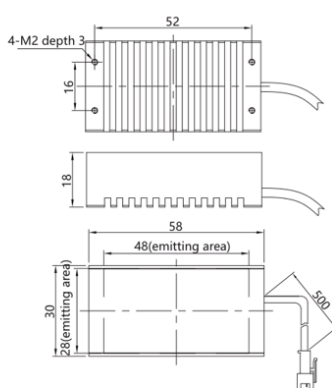
LS-HFS2727

1



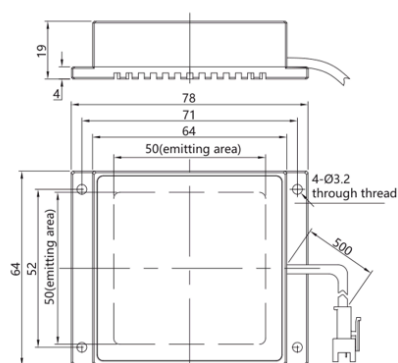
LS-HFS4828

2



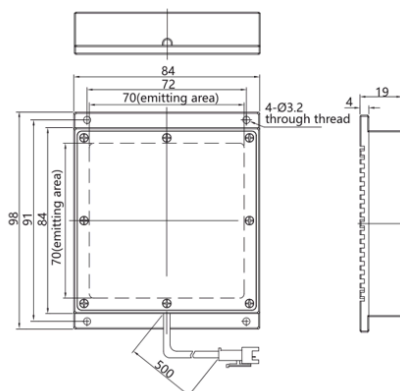
LS-HFS5050

3



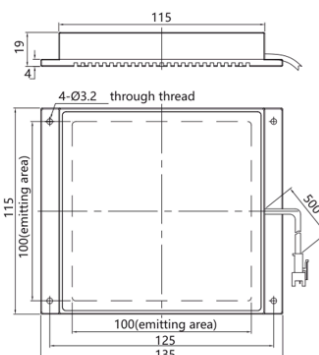
LS-HFS7070

4



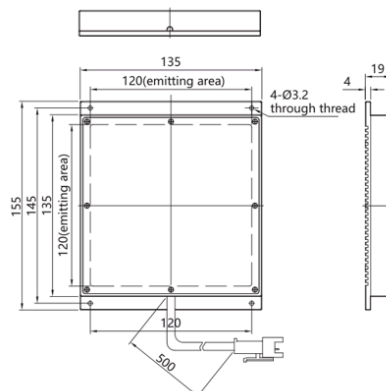
LS-HFS100100

5



LS-HFS120120

6



7



8



9



10



1



12



13



14



19



16

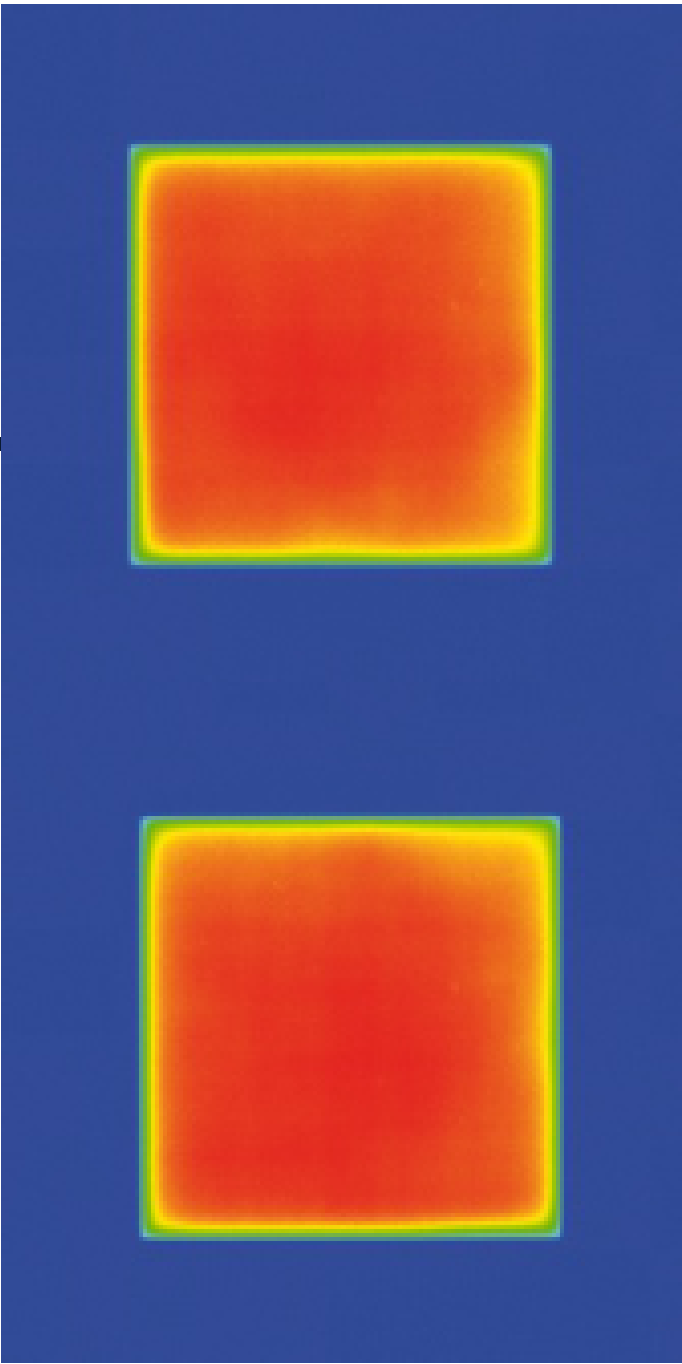
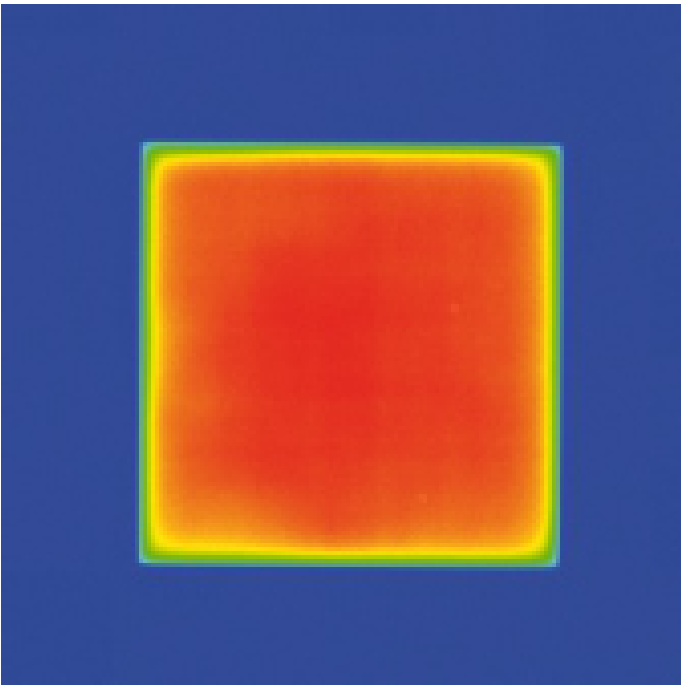
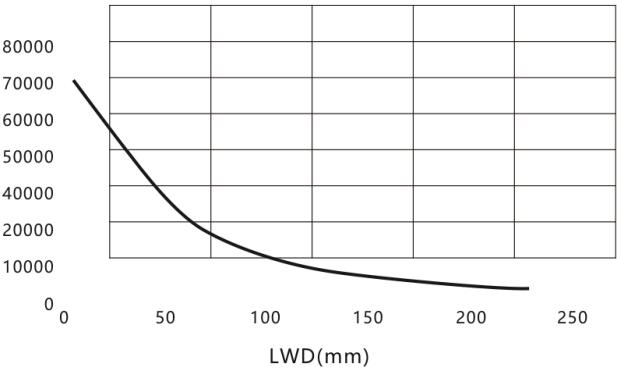


12



18





Product views



