

Back light / area light (HHFL)

LS-HHFL series · Backlights · 29 models

Area light: the LEDs are arranged in a structurally optimised layout on the bottom of the light and pass through a diffuser to form an even emitting surface. Fitted with a brightness-enhancement film it becomes a parallel area light, raising brightness by 20% to 50%; mainly used for outline and dimension inspection.



Features

- High-density LED array
- High-brightness flat illumination
- Optional parallel version (PHFL) with brightness-enhancement film, +20% to 50% brightness

Applications

- Outline measurement, machined dimension measurement
- Glass bottle damage, foreign matter inspection
- Surface scratches, stains, internal foreign matter and damage on transparent objects

Colours

R	620-630 nm
G	525 nm
B	470 nm
W	5000-8000 K

Common specifications

Cable length (mm)	500
Operating environment	Ambient about 25 °C, operating temperature within 35 °C
Expected life	Red, white, blue and green: 30000 h continuous, decays to 40% (typical one-year decay 5-10%)
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-HFL-<emitting length mm>-<emitting width mm>-<colour> (example H-HFL-19-19-W; 'PHFL' = parallel area light)

Models

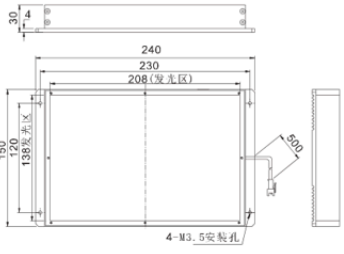
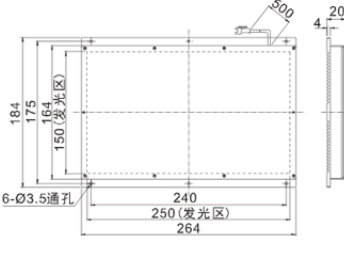
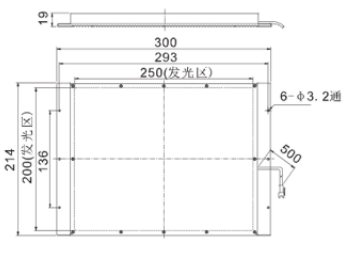
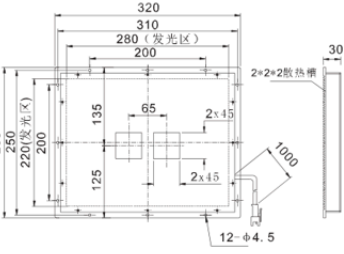
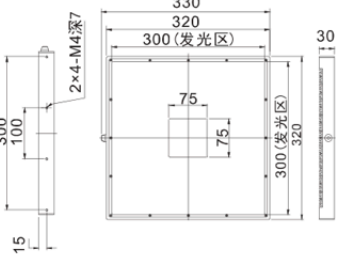
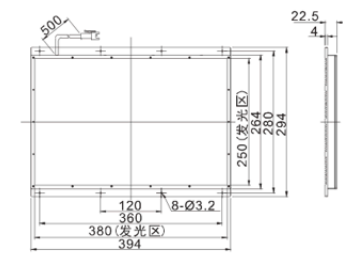
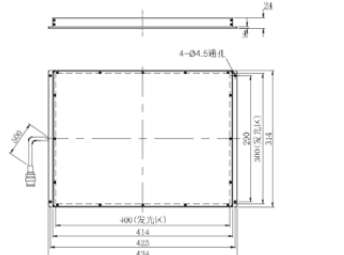
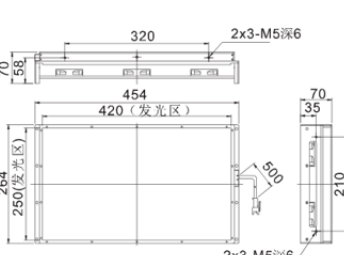
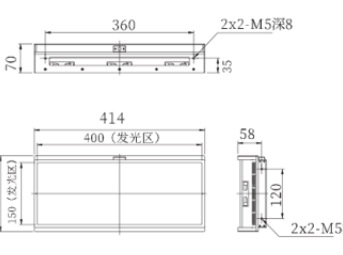
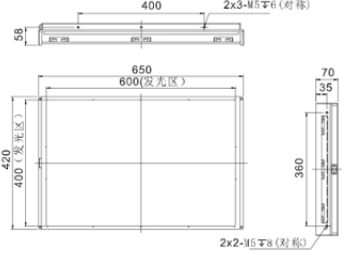
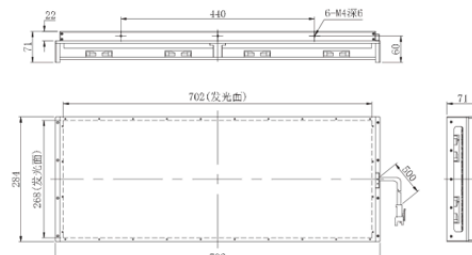
Model	Emitting area (mm)	Power, green/blue/white (W)	Power, red (W)	Recommended controllers
LS-HHFL1919 colours: R, G, B, W	19 x 19	1.0	0.5	HMAPC2420 / HAPC2424P
LS-HHFL2727 colours: R, G, B, W	27 x 27	1.5	1.0	HMAPC2420 / HAPC2424P
LS-HHFL3030 colours: R, G, B, W	30 x 30	2.0	1.5	HMAPC2420 / HAPC2424P
LS-HHFL5050 colours: R, G, B, W	50 x 50	3.5	3.0	HMAPC2420 / HAPC2424P
LS-HHFL6040 colours: R, G, B, W	60 x 40	4.0	2.5	HMAPC2420 / HAPC2424P
LS-HHFL7070 colours: R, G, B, W	70 x 70	8.0	4.0	HMAPC2420 / HAPC2424P
LS-HHFL10050 colours: R, G, B, W	100 x 50	5.0	5.0	HMAPC2420 / HAPC2424P
LS-HHFL11060 colours: R, G, B, W	110 x 60	9.0	8.0	HMAPC2420 / HAPC2424P
LS-HHFL100100 colours: R, G, B, W	100 x 100	11.0	8.0	HMAPC2420 / HAPC2424P
LS-HHFL120120 colours: R, G, B, W	120 x 120	25.5	15.0	HAPC2460P / HMDPC2480 / HDPC2465D
LS-HHFL150100 colours: R, G, B, W	150 x 100	14.5	12.0	HAPC2460P / HMDPC2480 / HDPC2465D

LS-HHFL160120 colours: R, G, B, W	160 x 120	23.0	23.0	HAPC2460P / HMDPC2480 / HDPC2465D
LS-HHFL180100 colours: R, G, B, W	180 x 100	25.5	25.5	HAPC2460P / HMDPC2480 / HDPC2465D
LS-HHFL190100 colours: R, G, B, W	190 x 100	25.5	25.5	HAPC2460P / HMDPC2480 / HDPC2465D
LS-HHFL200100 colours: R, G, B, W	200 x 100	27.0	16.5	HAPC2460P / HMDPC2480 / HDPC2465D
LS-HHFL200160 colours: R, G, B, W	200 x 160	36.0	36.0	HAPC2460P / HMDPC2480 / HDPC2465D
LS-HHFL200200 colours: R, G, B, W	200 x 200	48.0	34.0	HAPC2460P / HMDPC2480 / HDPC2465D
LS-HHFL220150 colours: R, G, B, W	220 x 150	38.0	38.0	HAPC2460P / HMDPC2480 / HDPC2465D
LS-HHFL240150 colours: R, G, B, W	208 x 138	32.0	32.0	HAPC2460P / HMDPC2480 / HDPC2465D
LS-HHFL250150 colours: R, G, B, W	250 x 150	33.0	32.0	HAPC2460P / HMDPC2480 / HDPC2465D
LS-HHFL250200 colours: R, G, B, W	250 x 200	47.0	47.0	HAPC2460P / HMDPC2480 / HDPC2465D
LS-HHFL300260 colours: R, G, B, W	220 x 280	48.5	48.5	HAPC2460P / HMDPC2480 / HDPC2465D
LS-HHFL300300 colours: R, G, B, W	300 x 300	86.5	86.5	HAPC24120P / HSPC24100D
LS-HHFL380250 colours: R, G, B, W	380 x 250	112.5	112.5	HAPC24120P / HSPC24100D
LS-HHFL400300 colours: R, G, B, W	400 x 300	104.0	104.0	HAPC24120P / HSPC24100D
LS-HHFL420250 colours: R, G, B, W	420 x 250	104.0	104.0	HAPC24120P / HSPC24100D
LS-HHFL400150 colours: R, G, B, W	400 x 150	65.0	65.0	HAPC24120P / HSPC24100D
LS-HHFL600400 colours: R, G, B, W	600 x 400	194.0	194.0	HDPC24200D
LS-HHFL700260 colours: R, G, B, W	700 x 260	171.0	171.0	HDPC24200D

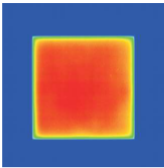
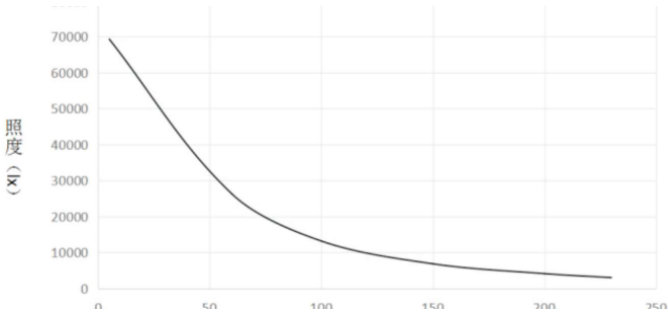
Dimensions

LS-HHFL1919	LS-HHFL2727	LS-HHFL3030
LS-HHFL5050	LS-HHFL6040	LS-HHFL7070

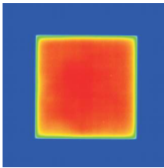
LS-HHFL10050	LS-HHFL11060	LS-HHFL100100
LS-HHFL120120	LS-HHFL150100	LS-HHFL160120
LS-HHFL180100	LS-HHFL190100	LS-HHFL200100
LS-HHFL200160	LS-HHFL200200	LS-HHFL220150

LS-HHFL240150 	LS-HHFL250150 	LS-HHFL250200 
LS-HHFL300280 	LS-HHFL300300 	LS-HHFL380250 
LS-HHFL400300 	LS-HHFL420250 	LS-HHFL400150 
LS-HHFL600400 	LS-HHFL700280 	

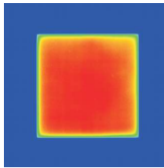
Performance



LS-HHFL100100-B



LS-HHFL100100-R



LS-HHFL100100-W

Product views

