

Collimated back light (2PFT/3PFT)

LS-2PFT3PFT series · Backlights · 27 models



Back light with a special parallel film design: simple structure, high effect. Compared with a normal back light it has lower luminance but less virtual border and higher measuring precision.

Features

- Special parallel film design, simple structure, high effect
- Compact design, efficient eco-friendly material
- Imported ultrathin paste LED, high luminance, high uniformity
- Precision-moulded shell, small batch-to-batch difference
- Directional: the inspected edge must be parallel to the arrow on the light; otherwise it behaves like a general back light
- Double-deck parallel film optional

Applications

- Metal column contour measurement
- Glass bottle diameter measurement
- Ceramic column diameter measurement
- Screw thread contour measurement
- Imaging example: screw contour inspection (LS-2PFT5050-W)

Colours

R	620-630 nm
G	525-530 nm
B	465-470 nm
W	6600 K

Common specifications

Voltage	24 V
Adapted controller	Analog controller, digital controller, high power controller
Customizable	viewport, length and width, multi-area control, colour and colour temperature, cable length, installation method

Cable (mm)	500 (drawings)
Option	Double-deck parallel film
Caution	The parallel film is a consumable; in high temperature it can deform or change colour. Mind heat transfer so it stays below the film's heat-resistance temperature.
Min. emitting area	30mm x 30mm
Max. emitting area	340mm x 260mm
Recommended working distance	1~100mm
FOV	1~280mm
Colours (overview)	red / green / blue / white
Colour temperature of white	6600K
Operating temperature	0-50 °C
Operating humidity	20-85% (non-condensing)
Life span	50000 h (to 50% of factory-default luminance)
Extension cable options	PVC extension cable (high flexibility, bending and heat resistant, for use inside equipment) or high-flexibility extension cable (harder and more abrasion resistant than PVC, for drag-chain production lines)
Custom wavelengths	UV & IR light can be customized as required

Ordering code: LS-2PFT/3PFT<length of luminous zone><width of luminous zone>--<R/G/B/W/IR/UV>

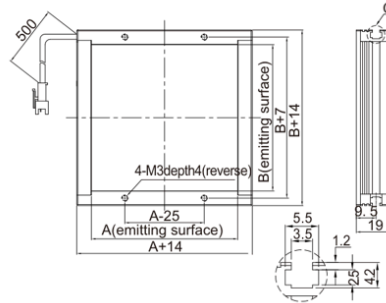
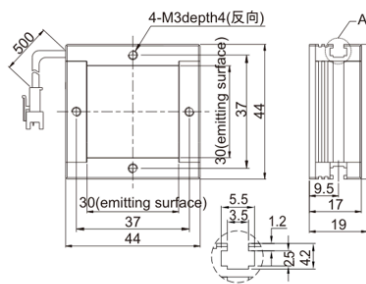
Models

Model	Power, R (W)	Power, G/B/W (W)	Weight (g)	Emitting surface (mm)	Dimension drawing	Common
LS-2PFT3030 colours: R, G, B, W	0.7	1.2	65	30 x 30	1	Y
LS-2PFT5050 colours: R, G, B, W	2.4	3.6	114	50 x 50	2	Y
LS-2PFT6060 colours: R, G, B, W	2.9	4.8	151	60 x 60	2	Y
LS-2PFT7070 colours: R, G, B, W	3.8	5.8	172	70 x 70	2	Y
LS-2PFT8080 colours: R, G, B, W	4.3	7.2	209	80 x 80	2	Y
LS-2PFT9090 colours: R, G, B, W	5.8	9.6	216	90 x 90	2	Y
LS-2PFT100100 colours: R, G, B, W	7.7	11.5	288	100 x 100	2	Y
LS-2PFT110110 colours: R, G, B, W	8.6	12.9	351	110 x 110	2	Y
LS-2PFT120120 colours: R, G, B, W	9.6	14.4	363	120 x 120	2	Y
LS-2PFT130130 colours: R, G, B, W	10.1	16.8	400	130 x 130	2	Y
LS-2PFT150150 colours: R, G, B, W	11.5	19.2	528	150 x 150	2	Y
LS-2PFT160160 colours: R, G, B, W	15.4	23.0	565	160 x 160	2	Y

LS-2PFT8060 colours: R, G, B, W	4.3	7.2	189	80 x 60	3	N
LS-2PFT11060 colours: R, G, B, W	4.3	7.2	211	110 x 60	4	N
LS-2PFT12686 colours: R, G, B, W	6.7	11.7	314	126 x 86	5	N
LS-2PFT150100 colours: R, G, B, W	8.6	14.4	373	150 x 100	6	N
LS-2PFT15756 colours: R, G, B, W	5.8	8.6	273	157 x 56	7	N
LS-2PFT16065 colours: R, G, B, W	7.9	10.8	295	160 x 65	8	N
LS-2PFT180100 colours: R, G, B, W	10.1	16.8	592	180 x 100	9	N
LS-2PFT180180 colours: R, G, B, W	18.7	28.1	741	180 x 180	10	Y
LS-3PFT200140 colours: R, G, B, W	15.1	25.2	924	200 x 140	11	N
LS-3PFT200200 colours: R, G, B, W	20.2	33.6	1320	200 x 200	12	Y
LS-3PFT220220 colours: R, G, B, W	29.0	42.2	1597	220 x 220	13	Y
LS-3PFT250250 colours: R, G, B, W	30.3	50.4	1829	250 x 250	14	Y
LS-3PFT300164 colours: R, G, B, W	25.2	42.0	1270	300 x 164	15	Y
LS-3PFT300200 colours: R, G, B, W	30.2	50.4	1740	300 x 200	16	N
LS-3PFT340260 colours: R, G, B, W	46.8	78.0	2437	340 x 260	17	N

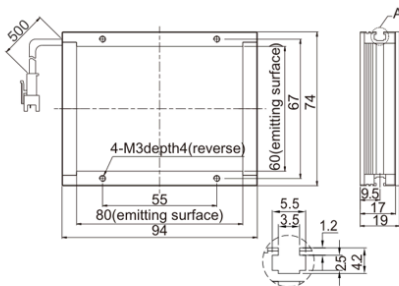
Dimensions

1.LS-2PFT3030

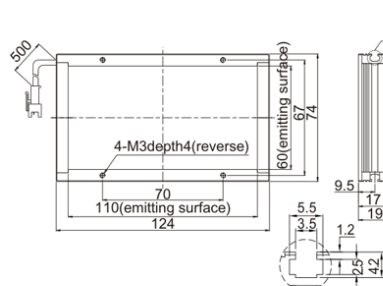


Model	A	B
LS-2PFT5050	50	50
LS-2PFT6060	60	60
LS-2PFT7070	70	70
LS-2PFT8080	80	80
LS-2PFT9090	90	90
LS-2PFT100100	100	100
LS-2PFT110110	110	110
LS-2PFT120120	120	120
LS-2PFT130130	130	130
LS-2PFT150150	150	150
LS-2PFT160160	160	160

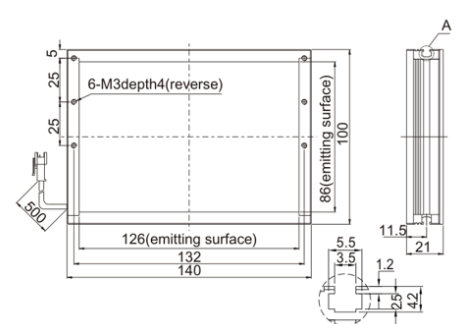
3.LS-2PFT8060



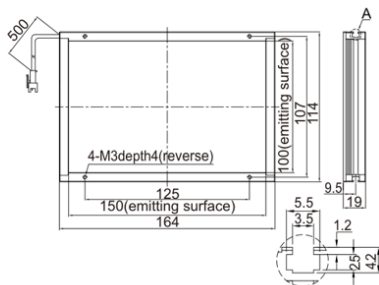
4.LS-2PFT11060



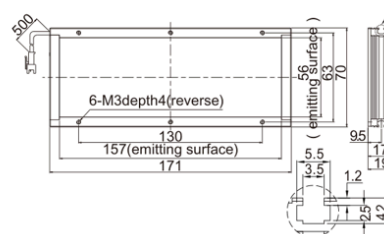
5.LS-2PFT12686



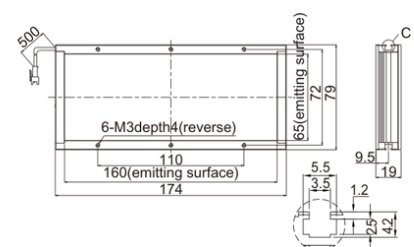
6.LS-2PFT150100

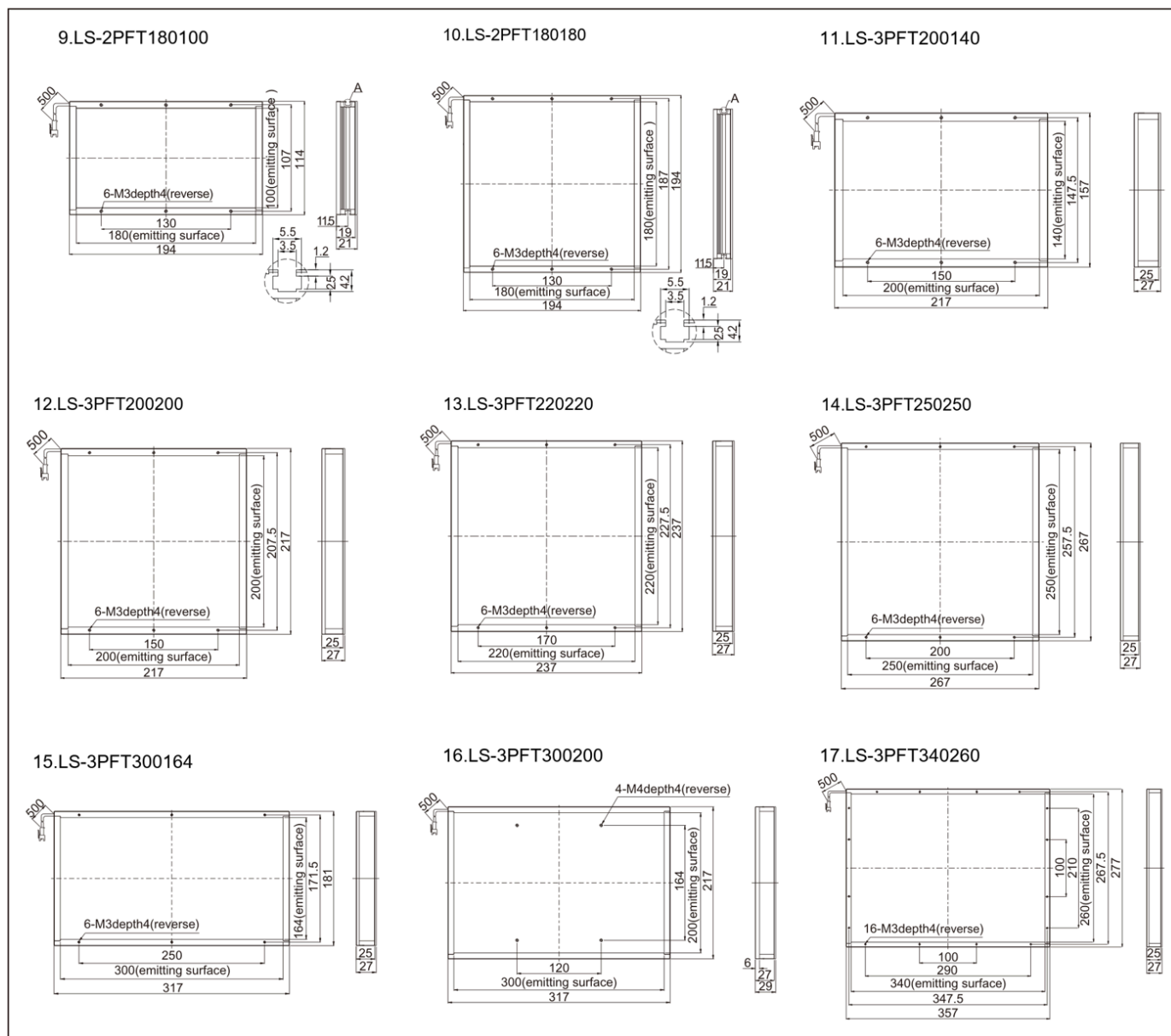


7.LS-2PFT15756



8.LS-2PFT16065

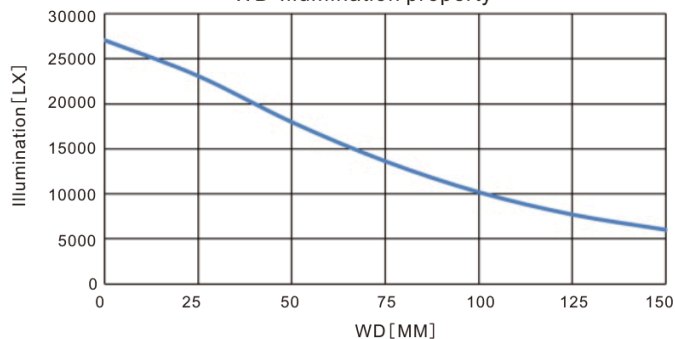




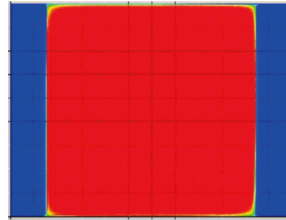
Performance

Model: LS-2FT100100-W

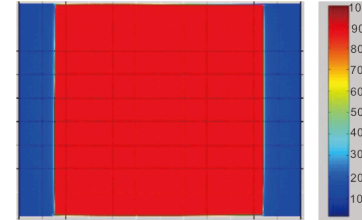
WD-Illumination property



Dark FOV: 133x100mm

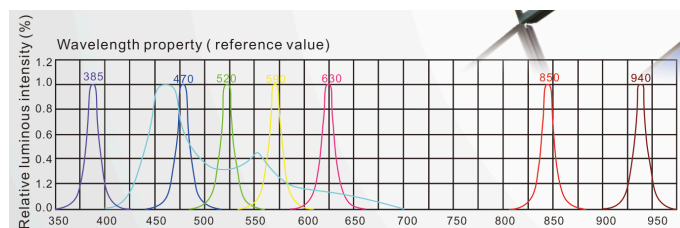
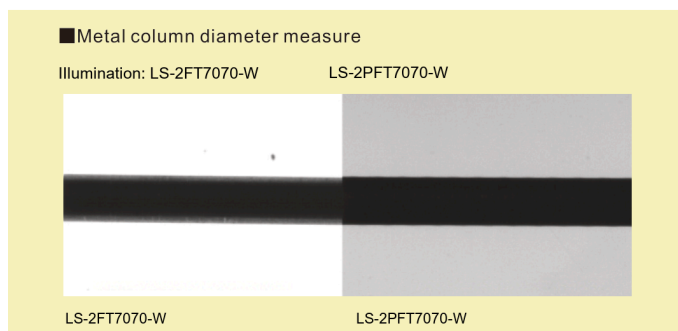


Bright FOV: 133x100mm



*Above diagram only for reference.

→ Applications effect chart



Product views

