

Tunnel line light source (TUG series)

LS-TUG series · Line scan lights · 19 models



Tunnel line light for print-quality inspection; its illuminance is 3–4 times that of a traditional tunnel light, with an innovative, smaller structure that is easier to install, an innovative light path and heat dissipation design, more uniform illumination and longer life.

Features

- Inspection of the printing quality of standard products
- Illuminance value is 3–4 times that of the traditional tunnel light source
- Innovative structural design, smaller size, easier installation
- Innovative light path design and heat dissipation design
- Illumination more uniform, longer life
- Brightness 3–4 times that of a traditional tunnel light
- New structural design: smaller and simpler to install
- Innovative light-path design and heat-dissipation design
- More uniform illumination and longer service life

Applications

- Linear scanning inspection in the textile industry
- Quality inspection in the printing industry
- PCB character recognition
- FPC membrane inspection
- Appearance inspection of mobile phone shells
- Paper surface inspection
- Wafer QR code inspection
- Line-scan inspection in the textile industry

Colours

R	620–630 nm
B	465–475 nm
W	6000–10000K
G	520–530 nm
IR	850–940 nm

UV 365-405 nm

Common specifications

Storage environment	Temperature -20-60 °C, humidity 20-85 %RH (non-condensing)
Using environment	0-40 °C
Optional accessories	Extension cable
Controller	LS-CPL48320C-2T (the selected controller should match the power of the light)
Service life	At 25 °C ambient, red works continuously for 60000 hours at 50% illumination, white for 30000 hours at 50% illumination, until 50% decrement
Quality assurance	1 year from shipment, free maintenance or replacement for faults not caused by the user
Cooling	Fan (from photo)
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)
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)
Emitting width (mm)	88
Observation window width (mm)	10
Illuminance chart reference	LS-TUG410270-W; uniformity LS-TUG410270-W, FOV 50 x 50 mm at LWD 10/20/30 mm

Ordering code: LS-TUG<overall L mm><overall W mm>-<colour R/G/B/W>, e.g. LS-TUG410270-R

Models

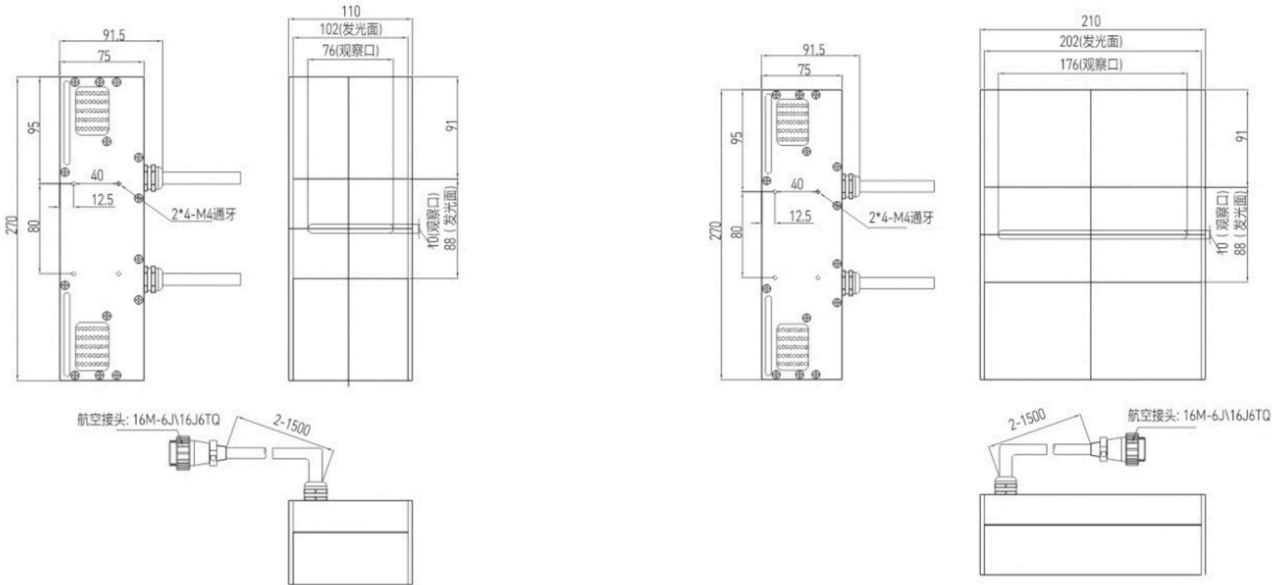
Model	Power (W)	Emitting area (mm)	Overall L (mm)	Light cable quantity	Extension cable	Fan quantity	Recommended controller
LS-TUG110270 colours: R, B, W	72	102 x 88	110	2	AC16P6	2	LS-CPL48320C-1T
LS-TUG210270 colours: R, B, W	144	202 x 88	210	2	AC16P6	2	LS-CPL48320C-1T
LS-TUG310270 colours: R, B, W	216	302 x 88	310	2	AC16P6	4	LS-CPL48320C-1T

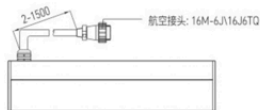
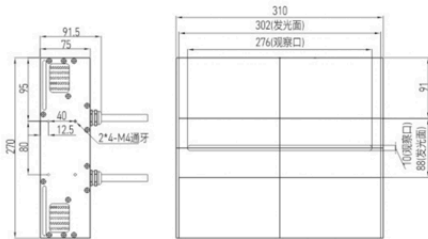
LS-TUG410270 colours: R, B, W	288	402 x 88	410	2	AC16P6	4	LS-CPL48320C-1T
LS-TUG510270 colours: R, B, W	360	502 x 88	510	2	AC24P6	4	LS-CPL48760C-1T
LS-TUG610270 colours: R, B, W	432	602 x 88	610	2	AC24P6	6	LS-CPL48760C-1T
LS-TUG710270 colours: R, B, W	504	702 x 88	710	2	AC24P6	10	LS-CPL48760C-1T
LS-TUG810270 colours: R, B, W	576	802 x 88	810	2	AC24P6	10	LS-CPL48760C-1T
LS-TUG910270 colours: R, B, W	648	902 x 88	910	2	AC24P6	10	LS-CPL48760C-1T
LS-TUG1010270 colours: R, B, W	720	1002 x 88	1010	2	AC24P6	12	LS-CPL48760C-1T
LS-TUG1110270 colours: R, B, W	792	1102 x 88	1110	4	AC24P6	14	LS-CPL48760C-1T
LS-TUG1210270 colours: R, B, W	864	1202 x 88	1210	4	AC24P6	16	LS-CPL48760C-1T
LS-TUG1310270 colours: R, B, W	936	1302 x 88	1310	4	AC24P6	16	LS-CPL48760C-1T
LS-TUG1410270 colours: R, B, W	1008	1402 x 88	1410	4	AC24P6	18	LS-CPL48760C-1T
LS-TUG1510270 colours: R, B, W	1080	1502 x 88	1510	4	AC24P6	20	LS-CPL48760C-1T
LS-TUG1610270 colours: R, B, W	1152	1602 x 88	1610	4	AC24P6	20	LS-CPL48760C-1T
LS-TUG1710270 colours: R, B, W	1224	1702 x 88	1710	4	AC24P6	22	LS-CPL48760C-1T
LS-TUG1810270 colours: R, B, W	1296	1802 x 88	1810	4	AC24P6	24	LS-CPL48760C-1T

LS-TUG1910270 colours: R, B, W	1368	1902 x 88	1910	4	AC24P6	24	LS-CPL48760C-1T
-----------------------------------	------	-----------	------	---	--------	----	-----------------

More values per model (Overall W (mm), Overall H (mm), Observation window (mm, drawing), Connector, Cable length (mm, drawing), Item, Luminous size (mm)) are on each product page.

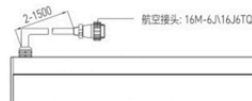
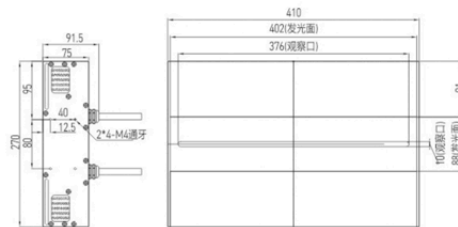
Dimensions





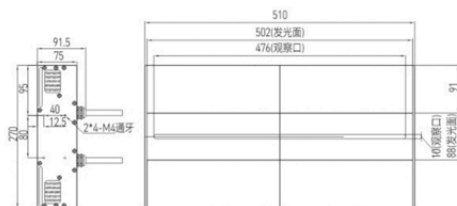
LS-TUG510270

5



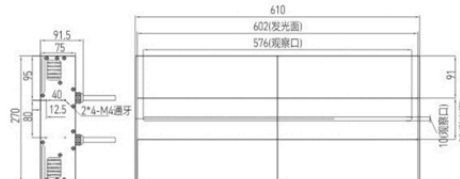
LS-TUG610270

6



LS-TUG710270

7



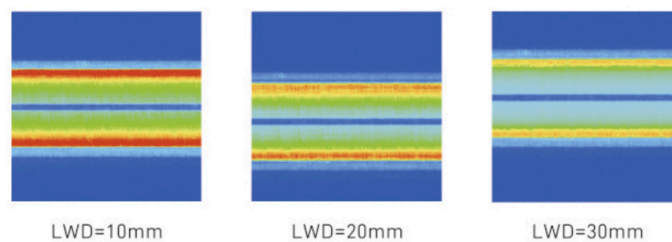
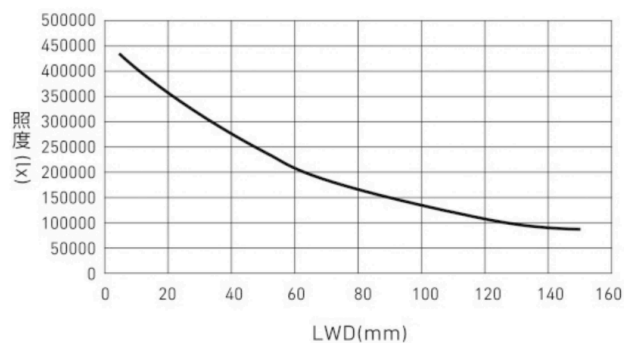
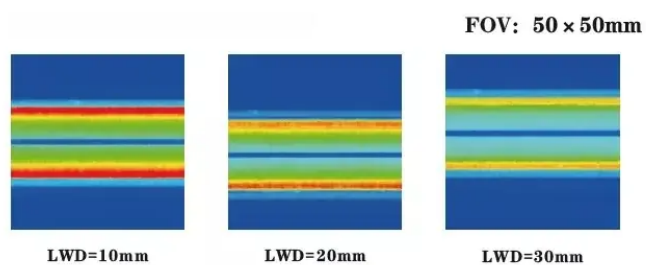
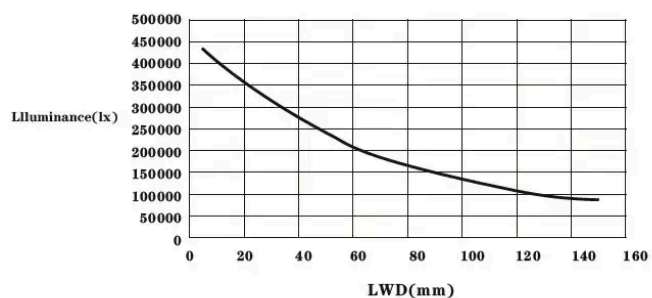
LS-TUG810270

8



Performance





Product views

