

Square Shadowless Light FPQ Series

3LINH	Line scan illumination
3LNL	
3LIN	
2LINS	
2LIN	
2COXL	
2LINM	
SDL	
STL	Structured light
RN	
RNH	
SRN	
HPR	
FPR	
DML	
LFR	
3DM	
2DM	
LFX	
FPQ	
RIH	
DL	
3BRH	
2BR	
2BRS	
2BRM	
3COH	
3CON	
COXR	
3COX	
COPA	
HSL	
2SL	
SL	
RNMU	
AOI	Multicangle illumination
2FTB/2FTR	
FTC	
2FT/3FT	
2PFT/3PFT	
LIP	
IP	Waterproof illumination
IR	Infrared light
UV	Ultraviolet light
Custonized	Custonized
PS	
PD	
2DRC	
3STU	
APC	
DPC	
2APC	
DPA	
2ACC	
2DPC	
Area scan	
Line scan	Lenses

-
- ◆ Special emitting structure, emitting uniformly in efficient working area.
 - ◆ Efficient low angle illumination, strengthen surface characteristic, highlight defect contrast.
 - ◆ Used to the workpiece which need balanced surface and reduce the reflect light or flare.



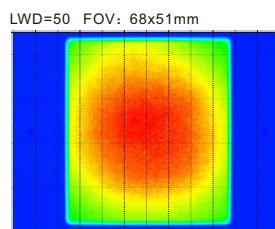
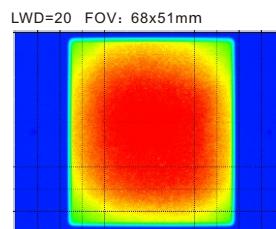
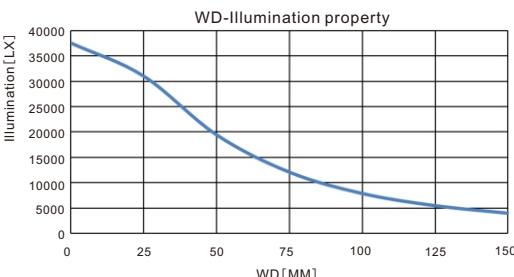
Applications

BGA, GFP position inspection / integrated circuit material strap inspection / inspection lead pin pitch character of integrated circuit / metal surface scratch inspection

Illumination property diagram

Uniformity (Relative irradiance)

Model : LTS-FPQ120120-W

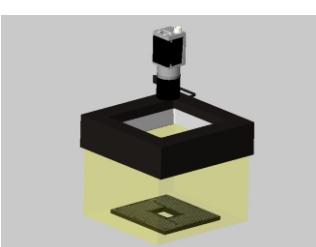


*Above diagram only for reference.

→ Customized



→ Imaging instance: needle column vertical inspection



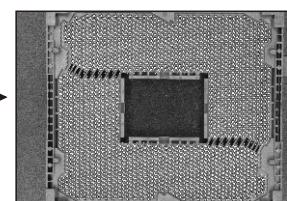
Content	needle column vertical inspection
Workpiece	electronics
Light model	LTS-FPQ120120-W
Result	clear and obvious needle

■ Workpiece photograph



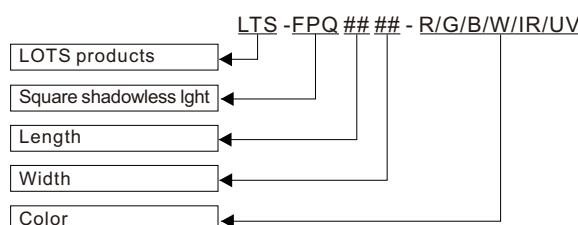
Needle column vertical inspection

■ LTS-FPQ120120-W



White needle is distortion.

→ Coding rule



<http://www.lotsmv.com>

Customized color

On-site technical support

Sample free rent service

Square Shadowless Light FPQ Series

→ Light parameters

Product	Model	Voltage	Power	Color	Peak wavelength / color temperature	Weight	Option	Adapted controller	Dimension	Common	Remark
Square shadowless light	LTS-FPQ4848	24V	0.7W 1.2W	R G B W	Red: 620~630nm Green: 525~530nm Blue: 465~470nm White: 6600K (color temperature)	89 g	—	Strobe controller (P146) Analog controller (P152) Digital controller (P159)	1	Y	UV & IR light can be customized as required.
	LTS-FPQ6060	24V	1.0W 1.4W	R G B W		140 g			2	Y	
	LTS-FPQ11660	24V	1.4W 2.2W	R G B W		278 g			3	Y	
	LTS-FPQ120120	24V	7.2W 10.6W	R G B W		578 g			4	Y	
	LTS-FPQ150150	24V	7.7W 11.5W	R G B W		731 g			5	Y	
	LTS-FPQ250250	24V	13.0W 19.7W	R G B W		1302 g			6	Y	

* UV & IR light can be customized as required.

- ★ 1) Operating environment: Temperature 0~50°C, Humidity 20~85% (Non-condensation)
- 2) Life-span: 50000h (Reduce 50% luminance of factory default)
- 3) Value-added service: One year free technical support, sample free rent

※ 1) PVC extension cable: high flexibility, bending resistance, high temperature resistance, apply to use inside of device.

2) High flexibility extension cable: harder and more abrasive resistance than PVC, apply to drag chain system production line.



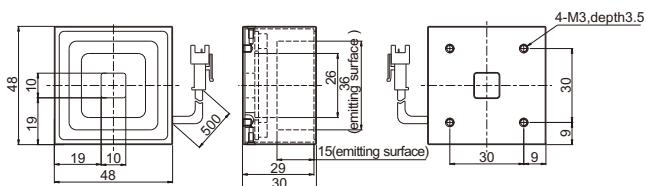
PVC extension cable



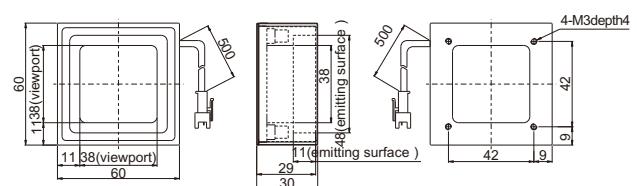
High flexibility extension cable

→ Boundary dimension(mm)

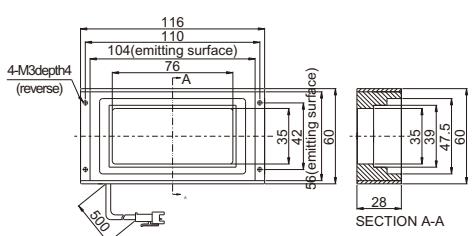
1.LTS-FPQ4848



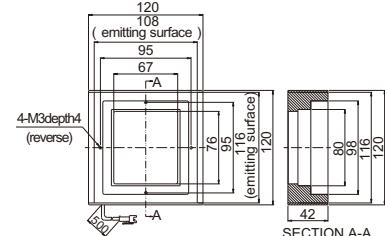
2.LTS-FPQ6060



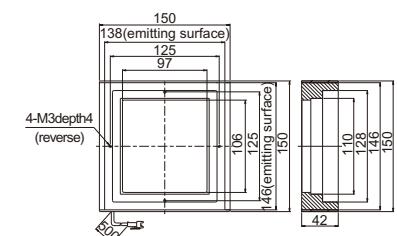
3.LTS-FPQ11660



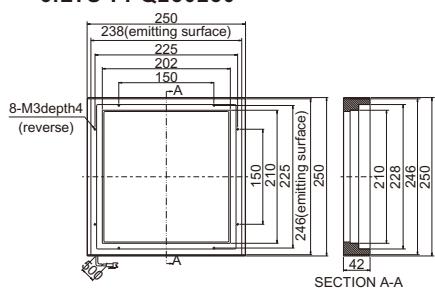
4.LTS-FPQ120120



5.LTS-FPQ150150



6.LTS-FPQ250250



3LINH	Line scan illumination
3LINL	
3LIN	
2LINS	
2LIN	
2COXL	
2LNM	
SDL	
STL	Structured light
RN	Ring illumination
RNH	
SRN	
HPR	
FPR	
DML	
LFR	
3DM	
2DM	
LFX	
FPQ	
RIH	
DL	
3BRH	Bar illumination
2BR	
2BRS	
2BRM	
3COH	
3CON	
CXR	
3COX	
COPA	
HSL	
2SL	
SL	
RNNU	Coaxial illumination
AOI	
2FTB/FTC	
2FT/3FT	
2PFT/3PFT	
LIP	Mult-angle illumination
IP	Back illumination
IR	
UV	
Customized	Waterproof illumination
PS	
PD	
2DRC	
3STU	
APC	
DPC	
2APC	
DPA	
2ACC	
2DPC	
Area scan	
Line scan	
Lenses	

Customized color

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