

Linear irradiation type UV-LED unit

LIGHTNINGCURE[®] LC-L5G

GJ-12



The GJ-12 achieves palm size and light weight. It can be installed in minimum space, and contributes size and weight reduction of whole instrument.

Specifications

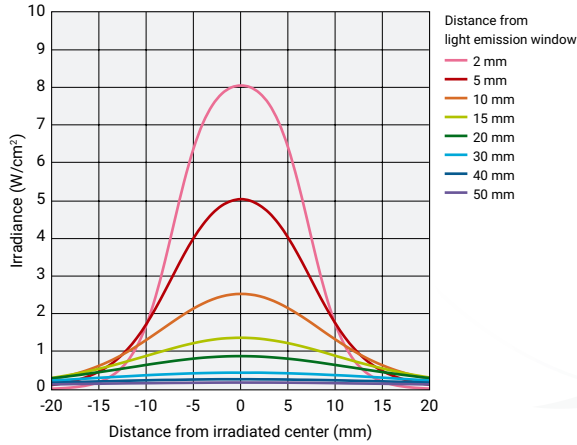
Parameter		L14012-2300	Unit
Light emission window size		26 × 11	mm
Wavelength		385	nm
UV irradiance *1	at distance of 0 mm	10	W/cm ²
	at distance of 2 mm	8	
LED design life *2		20 000	h
Input voltage (DC)	Main unit	+48	V
	Fan	+12	
Power consumption Max.		72	W
Cooling method		Forced air cooling by fan	-
Operating temperature range		+5 °C to +40 °C	-
Storage temperature range		-10 °C to +60 °C (no freezing)	-
Operating humidity range		20 % to 80 % (no condensation)	-
Storage humidity range		Below 80 % (no condensation)	-
External control		Irradiation control, various error signals	-
Connectable operation *3		-	-
Applicable standard	EMC standard	IEC 61326-1 Emission limits: CISPR 11 Group 1 Class A Immunity requirements: Table 2	-

*1: Maximum UV irradiance within the irradiation area.

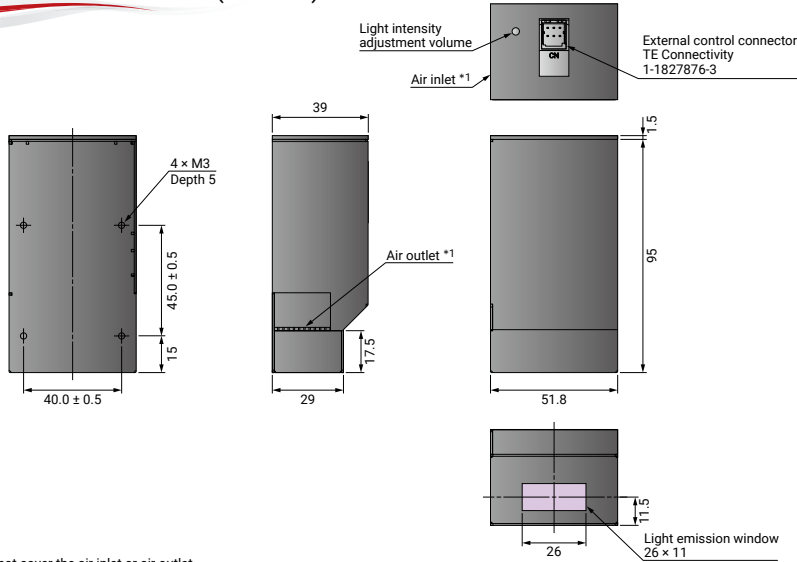
*2: Average time until the irradiance drops to 70 % of the initial level when operated at 25 °C.

*3: Optically connected operation. The light source for cascade operation is designed to minimize degradation of light output at the connected portion when light source is aligned with no gap.

Simulation of irradiance distribution (Longitudinal displacement) (Typ.)



Dimensional outlines (Unit: mm)



*1: Do not cover the air inlet or air outlet.
Secure 100 mm or more of space from the air inlet or air outlet.

Weight: Approx. 165 g

External control connector connection

Pin No.	Signal	
A1	Input voltage for main unit (+48 V)	Input
A2	Irradiation control signal	Input
A3	GND.	-
B1	Input voltage for fan (+12 V)	Input
B2	Error signal	Output
B3	GND.	-

Recommended products

Power supplies for main unit *1

- COSEL Co., Ltd. PBA100F-48
- MEAN WELL Enterprises Co., Ltd. MSP-100-48

Power supplies for fan *1

- COSEL Co., Ltd. PBA15F-12
- MEAN WELL Enterprises Co., Ltd. RS-15-12

*1: Recommended power supply to operate one light source.
Please contact to each manufacturer for the latest information.

NOTE: Cable should be prepared by user.