

HIGH POWER FIBER OPTIC ILLUMINATOR

# SLG-600V / 600V-FC

Ultra high power fiber light source

Realizes "High output" and "high speed response"  
Enables to replace Xenon flash light  
(With high-speed strobe function)



## ■ FEATURES | SLG-600V / 600V-FC

- Maintains stable light output over a long period with a long life of 20,000 hours
- Steady light emission, strobe light emission
- Manual control and external control with Ethernet, parallel or serial are available
- Up to 1,024-step illuminance control

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# SLG-600V / 600V-FC

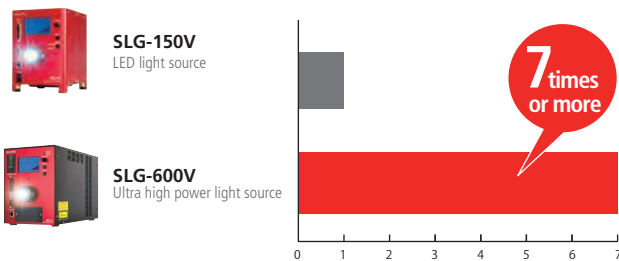
Ultra high power fiber light source



**MODEL NUMBER**  
 SLG-600V-□□ ① With filter → FC  
 ①

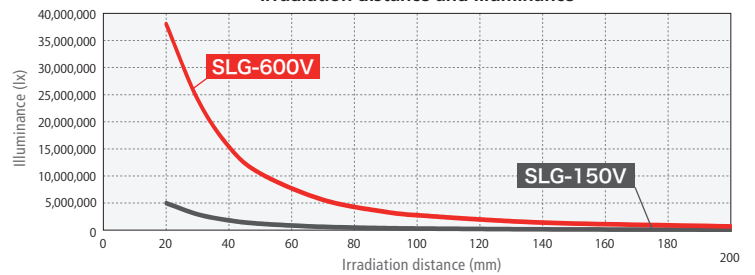
**HIGH INTENSITY** | Up to 7 times the output of existing LED light source

**Illuminance comparison graph**



\*Measured value at each given distance from the fiber exit face of 1,000 mm long straight light guide (with 8 mm bundle diameter) at maximum illuminance (not guaranteed)

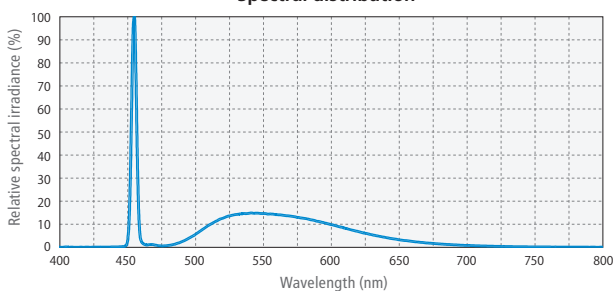
**Irradiation distance and illuminance**



\*Measured value at each given distance from the fiber exit face of 1,000 mm long straight light guide (with 8 mm bundle diameter) at maximum illuminance (not guaranteed)

**SPECTRAL DISTRIBUTION**

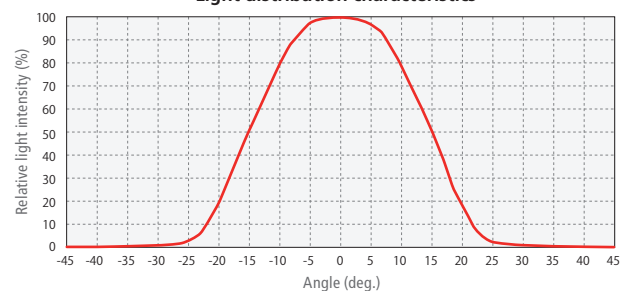
**Spectral distribution**



\*Actual value measured in accordance with our measurement standards.

**LIGHT DISTRIBUTION**

**Light distribution characteristics**



\*Measured value at each given distance from the fiber exit face of 1,000 mm long straight light guide (with 8 mm bundle diameter) at maximum illuminance (not guaranteed)

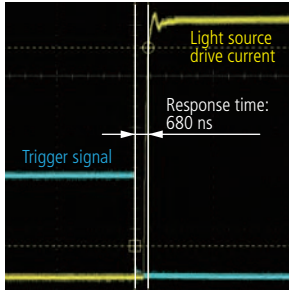
## RESPONSE PERFORMANCE

- High-speed response with minimum 1 μs or less

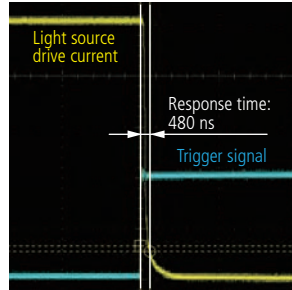
Response time by external trigger signal input

\*At maximum light amount setting

[Unlit → Lighting time]



[Lit → Off time]



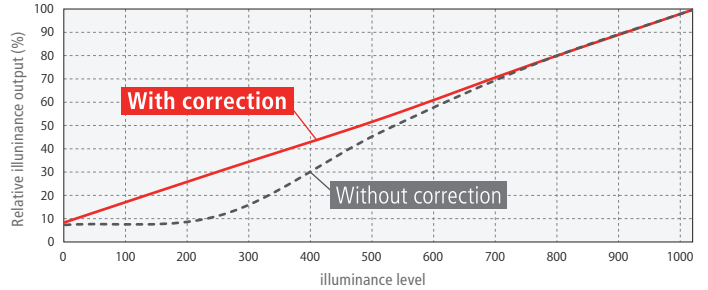
Strobe lighting in accordance with external trigger signals

\* The data shown is for reference only. It does not guarantee the quality of the product.

## LINEARITY | Linearity adjustment function

- Unique correction function realizes reproducible linearity
- Up to 1,024-step illuminance control

Linearity adjustment function



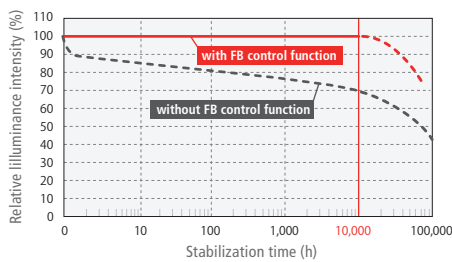
\*Actual value measured in accordance with our measurement standards. (not guaranteed)  
Default function status is with correction.

## FEED BACK SYSTEM

\*For details of light intensity feedback control function, please refer to the instruction manual.

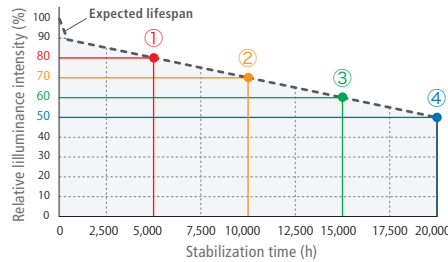
- By maintaining the light output feedback control function and arbitrary stabilization time, the output is maintained for a long time

Comparison of relative intensity depending on presence / Absence of light intensity feedback control function



\*The graph is an image when the stabilization time is set to 10,000 hours. (not guaranteed)

Relationship between light intensity feedback control function and stabilization time



- ① Stable up to 5,000 hours with 80% of maximum light intensity
- ② Stable up to 10,000 hours with 70% of maximum light intensity
- ③ Stable up to 15,000 hours with 60% of maximum light intensity
- ④ Stable up to 20,000 hours with 50% of maximum light intensity

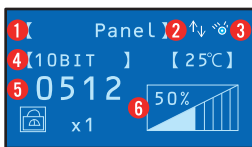
\*Under the environment of  $t_a = 40^\circ\text{C}$  (not guaranteed)

## MONITORING SYSTEM

\*For details of display contents, please refer to the instruction manual.

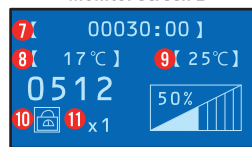
- LED temperature, PCB temperature and accumulated operating time are displayable on the LCD

Monitor screen 1



- ① Operation mode
- ② Icon for Feedback function
- ③ Icon for LED ON
- ④ Resolution (10 bit or 8 bit)
- ⑤ Illuminance level
- ⑥ Illuminance indicator

Monitor screen 2



- ⑦ Accumulated operating time
- ⑧ PCB temperature
- ⑨ LED temperature
- ⑩ Icon for Analog signal lock
- ⑪ Illuminance control magnification

Mode select screen



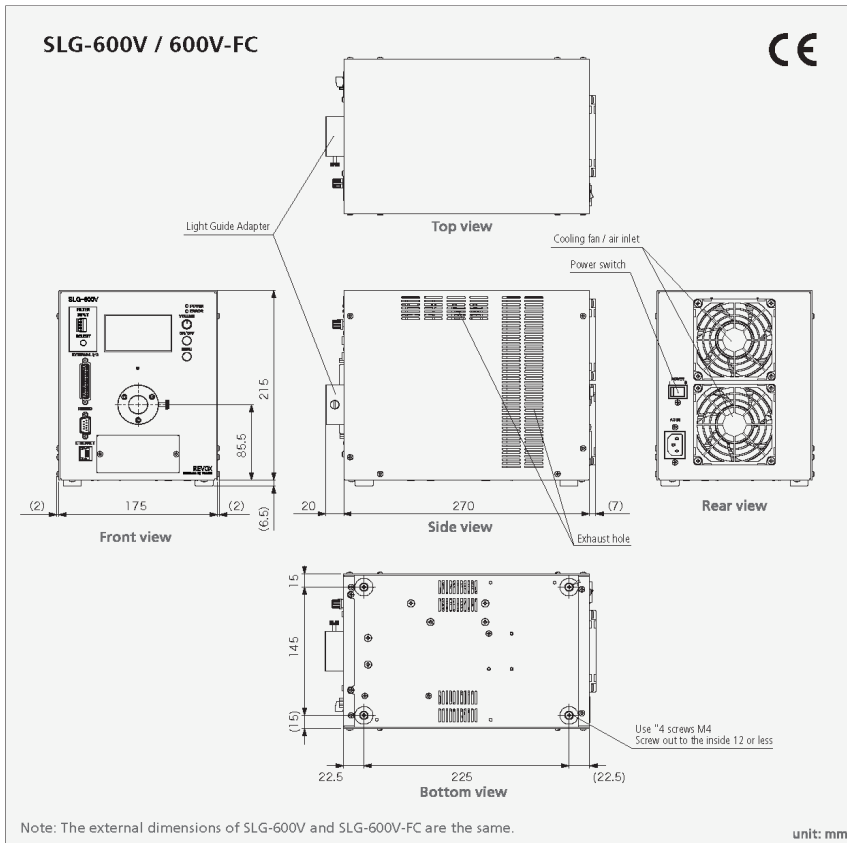
## SLG-600V-FC FEATURES | SLG-600V-FC



- Equipped with a 5-Filter Changer
- Various recommended filters with excellent heat resistance
- Filters can be changed easily by removing the front cover
- Filter changer can be controlled with the same control methods for dimming

\* Please use our recommended filters.

## APPEARANCE | SLG-600V / 600V-FC



## TECH SPEC | SLG-600V / 600V-FC

Model	SLG-600V	SLG-600V-FC (with filter changer)
Applicable fiber bundle diameter	Ø8 to 14mm	
Light distribution angle	Full-angle 30 °	
Light color	White	
Correlated color temperature (typ.)	5600K	
Drive method	Constant current drive	
Light control method	Variable current control	
Number of channels	1 channel	
Input power supply	AC100 to 240 V (± 10%), 50/60 Hz	
Power consumption (typ.)	350 VA (100 VAC), 370 VA (240 VAC)	
Inrush current (typ.)	40 A * On cold start	
Ground leakage current	0.5 mA max. (240 VAC, 60 Hz, with 100% load)	
Insulation withstand voltage - Insulation resistance (Input - Output, Input - FG)	1500 VAC for 1 minute, cutoff current 10 mA, 500 VDC 20 MΩmin.	
Operating environment (indoor use only)	Temperature: 0 to 40 ° C, Humidity: 20 to 80% (noncondensation) Altitude: Up to 2,000 m A.C. Overvoltage: Category II Pollution Degree: 2	
Storage environment	Temperature: -15 to 60 ° C, Humidity: 20 to 85% (noncondensation)	
Cooling method	Forced cooling	
CE	Safety standards: conforms to EN 61010-1, EN 621311-2008 EMC standard: conforms to EN 61000 - 6 - 2, EN 61000 - 6 - 4, EN 50581 - 2012	
RoHS Directive	Compliant	
Material - Coating - Surface processing	Aluminum alloy (alumite)	
Weight	8.0 kg max.	8.5 kg max.
Accessories	Instruction Manual × 1, 3 P AC power cable with ground terminal (2 m) × 1, Only for SLG - 600V - FC (Model with filter changer): Filter holders × 5, Holder screws × 18	

\*Specifications are subject to change without notice

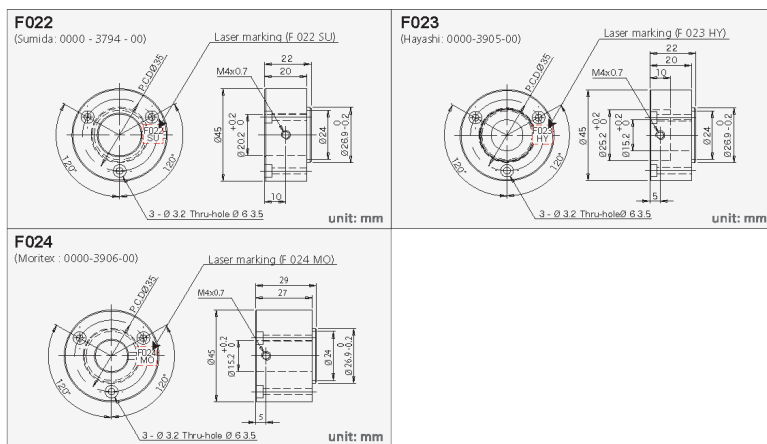
## OPTION

We propose light guide according to the purpose such as straight, ring, line etc.



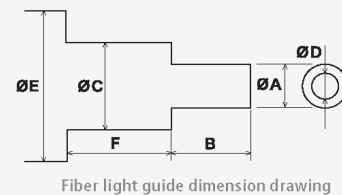
## FERRULE ADAPTOR

Please check the dimensions of your light guide and select the fitting base.



## Special custom caps

- If you wish to order a special order, Please let us know the dimensions (A to F) of the fiber light guide.



\*For size not listed, please contact our sales department

For inquiries

Note: Please carefully read the operation instruction guide prior to use. The above specifications are subject to change without notice.