

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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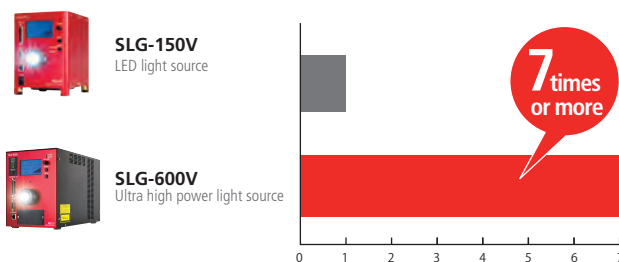


### MODEL NUMBER

SLG-600V-☐☐ ① With filter→FC  
①

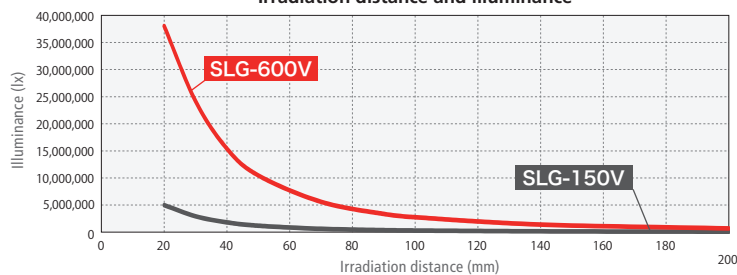
## HIGH INTENSITY | Up to 7 times the output of existing LED light source

### Illuminance comparison graph



\*Measured value at an 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 )

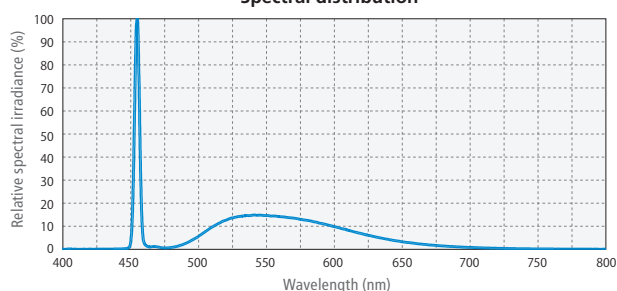
### Irradiation distance and illuminance



\*Measured value at an 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

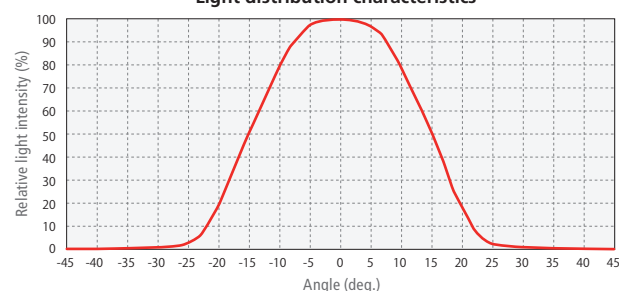
### Spectral distribution



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

## LIGHT DISTRIBUTION

### Light distribution characteristics



\*Measured value at an 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 )



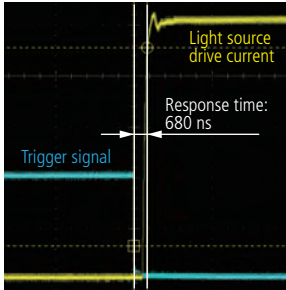
## ■ RESPONSE PERFORMANCE

- High-speed response with minimum 1  $\mu$ s or less

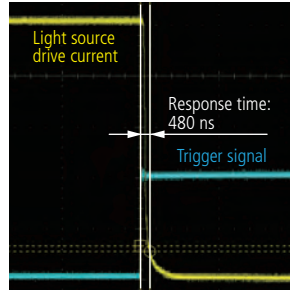
Response time by external trigger signal input

\*At maximum light amount setting

[Unlit → Lighting time]



[Lit → Off time]



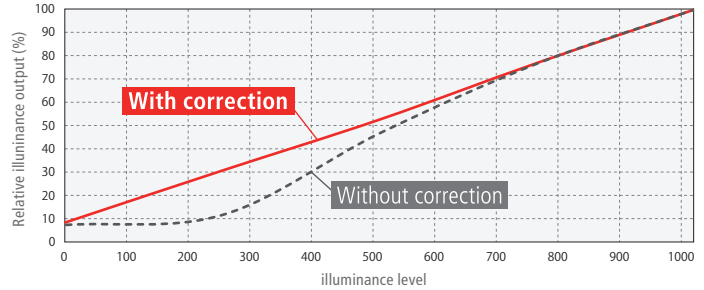
Strobe lighting in accordance with external trigger signals

\* 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



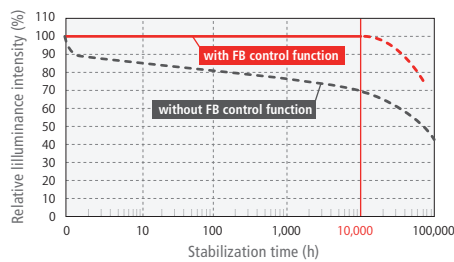
\*Actual value measured in accordance with our measurement standards. ( not guaranteed )  
Default fuction status is with correction.

## ■ FEED BACK SYSTEM

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

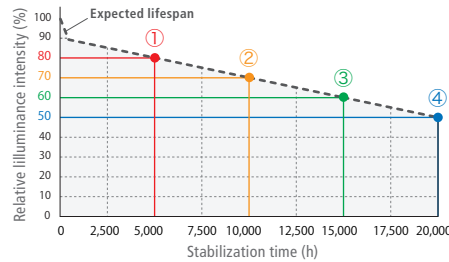
- By maintaining the light output feedback control function and arbitrary stabilization time, the output is maintained for a long time

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

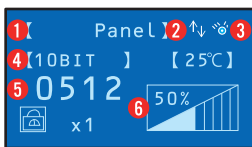
\*Under the environment of  $t_a = 40^\circ\text{C}$  ( not guaranteed )

## ■ MONITORING SYSTEM

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

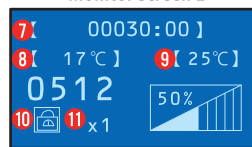
- LED temperature, PCB temperature and accumulated operating time are displayable on the LCD

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

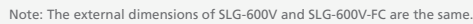


- Equipped with a 5-Fileter Changer
- Various recommended filters with excellent heat resistance
- Filters can be changed easily by removing the front cover
- Filter changer can be controlled with the same control methods for dimming

\* Please use our recommended filters.



## C E



unit: mm

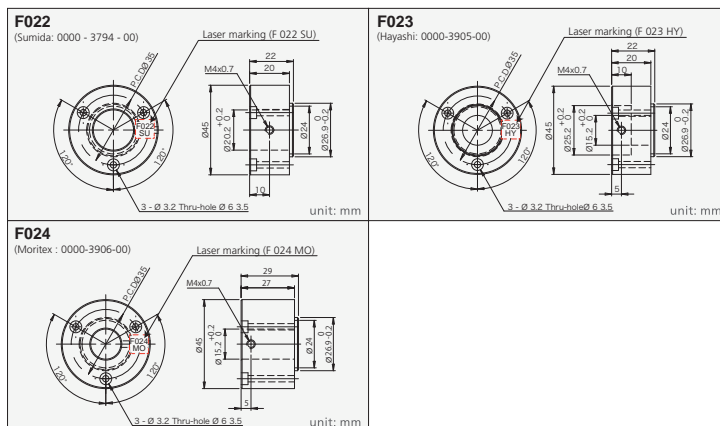
Model	SLG-600V	SLG-600V-FC (with filter changer)
Applicable fiber bundle diameter	Ø8 to 14mm	
Light distribution angle	Full-angle 30 °	
Light color	White	
Correlated color temperature (typ.)	5600K	
Drive method	Constant current drive	
Light control method	Variable current control	
Number of channels	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 AC 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 - 600 V - FC (Model with filter changer): Filter holders × 5, Holder screws × 18	

\*Specifications are subject to change without notice

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

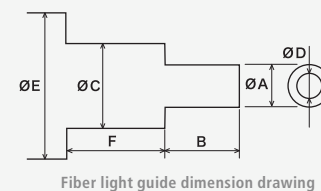


Please check the dimensions of your light guide and select the fitting base.



### 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