

LED FIBER OPTIC ILLUMINATOR

SLG-150V-NIR

Vision **Systems**
2023 **Innovators**
Awards
BRONZE HONOREE

Suitable for surface inspection and inside inspection

- 850nm/940nm/1,060nm/1,100nm/1,150nm/1,200nm/1,300nm/1,450nm/1,550nm



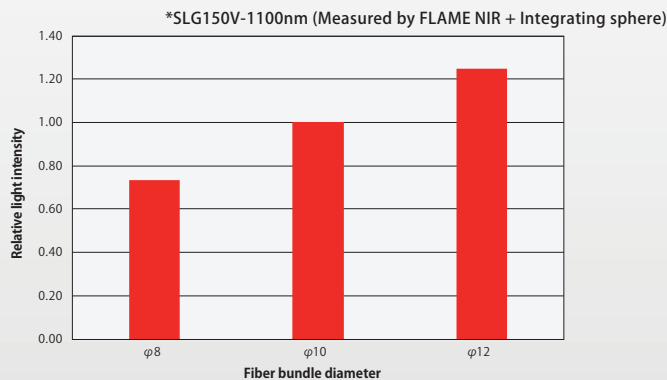
■ FEATURES

- Suitable for transmissive inspection such as silicon wafer, PCB and packages.
- Long lifetime of 30,000 hours as for 850nm/940nm/1,100nm/1,150nm/1,200nm/1,300nm/1,450nm/1,550nm.
- Minor damage to inspection objects as a result of lower heat than halogen illuminator.
- Light output is stable even under harsh conditions by stabilizer function.
- Compliant with CE marking

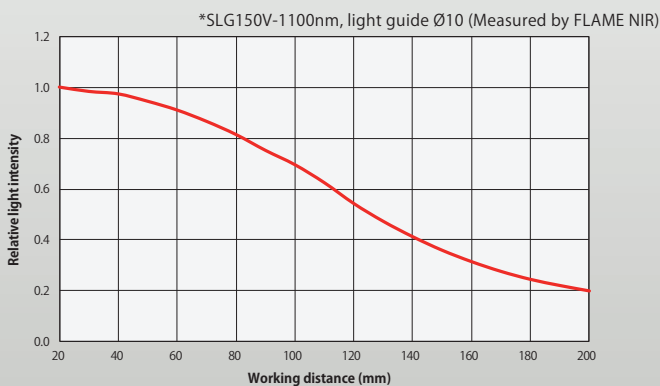
LED FIBER OPTIC ILLUMINATOR

SLG-150V-NIR

■ OPTIMIZED OPTICAL DESIGN

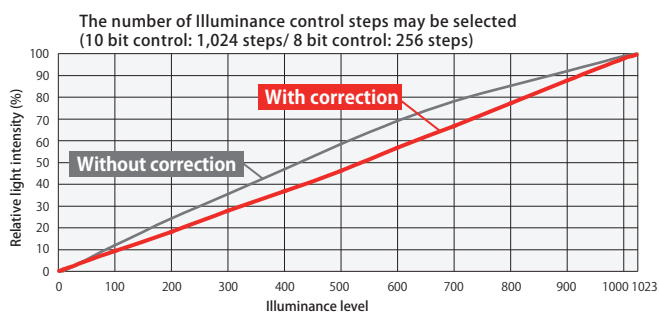


■ DISTANCE DISTRIBUTION



■ LINEARITY

- Unique linearity correction function pre-installed
- Identical linearity characteristics programmable with multiple units

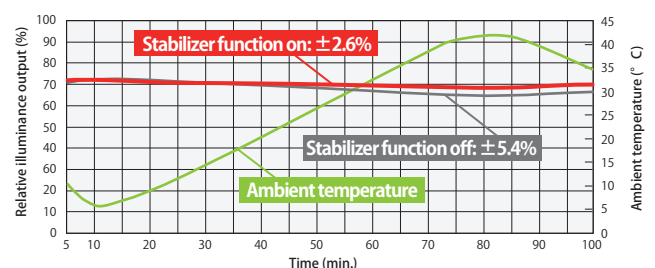


* Actual value measured in accordance with our measurement standards (not guaranteed)
* Linearity correction function is always effective.

■ CONSTANT ILLUMINATION FUNCTION

- Light output is stable even under harsh conditions.

Brightness fluctuation can be minimized within a range of $\pm 3\%$.
Stabilizer function is available in a range of operating temperatures.
(Operating temperature: 5 to 40° C, illuminance level from 40 to 80%)

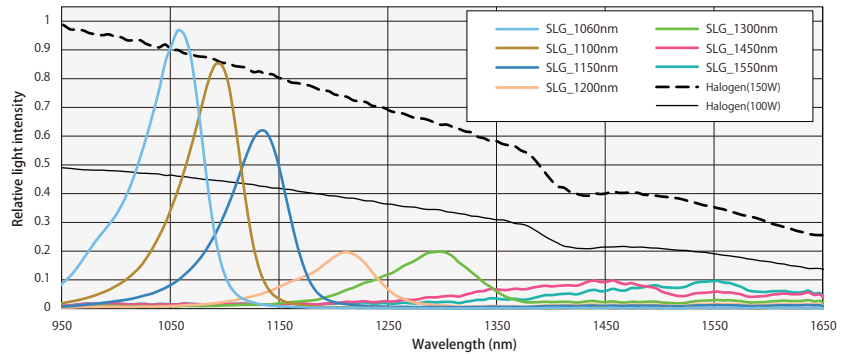
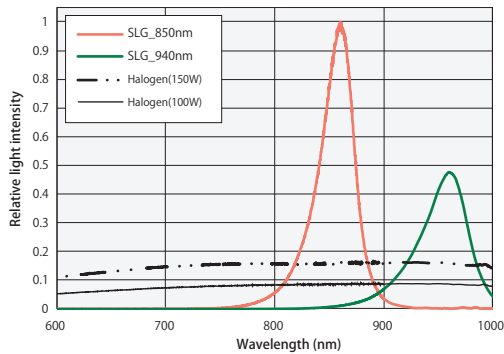


* Actual value measured in accordance with our measurement standards (not guaranteed)
* Stabilizer function is off in default settings.



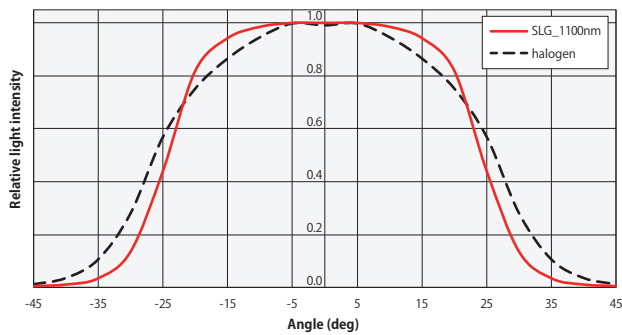
SPECTRAL DISTRIBUTION

Measuring instrument: spectroscope (for visual light range) USB4000 and integrating sphere, spectroscope FLAME NIR (for NIR range)
*Different measuring instrument for each range, visual or NIR.



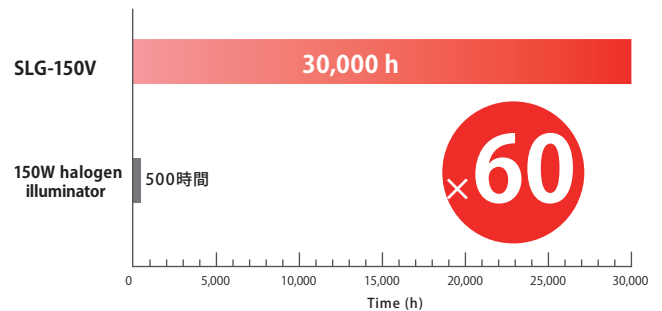
LIGHT DISTRIBUTION

*Measuring instrument: At the Distance of 150 mm with spectroscopy FLAME NIR (for NIR range)



LONG LIFE

- Comparison of life span between SLG-150V (850nm/940nm/1,100nm / 1,150nm/1,200nm/1,300nm/1,450nm/1,550nm) and 150 W halogen illuminator

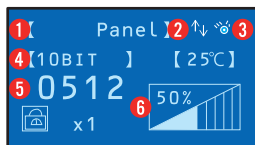


* Calculated value until light output decreases to 70% at maximum illuminance and 25° C ambient temperature (not guaranteed)

MONITORING SYSTEM

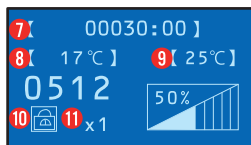
- LED temperature, PCB temperature and accumulated operating time are displayable on the LCD.

Monitor screen 1



- Operating mode
- Feedback Icon
- LED ON Icon
- Resolution
- Intensity
- Intensity indicator

Monitor screen 2



- Total time
- Internal PCB temperature
- LED temperature
- LED ON icon
- Dimming magnification

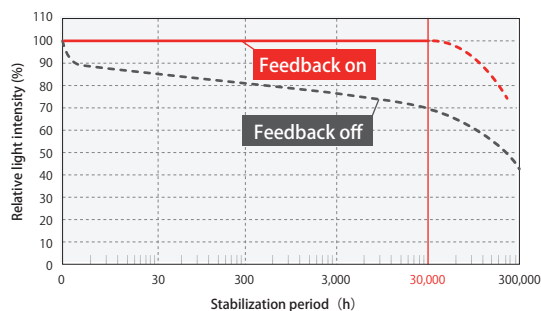
Mode select screen



FEED BACK SYSTEM

- Maintaining stable output for a long term by feedback system with chosen stabilization period.

Relative intensity value with feedback system (concept image)



* Concept image in case of stabilization period of 30,000 hours (not guaranteed)

MODEL NUMBER

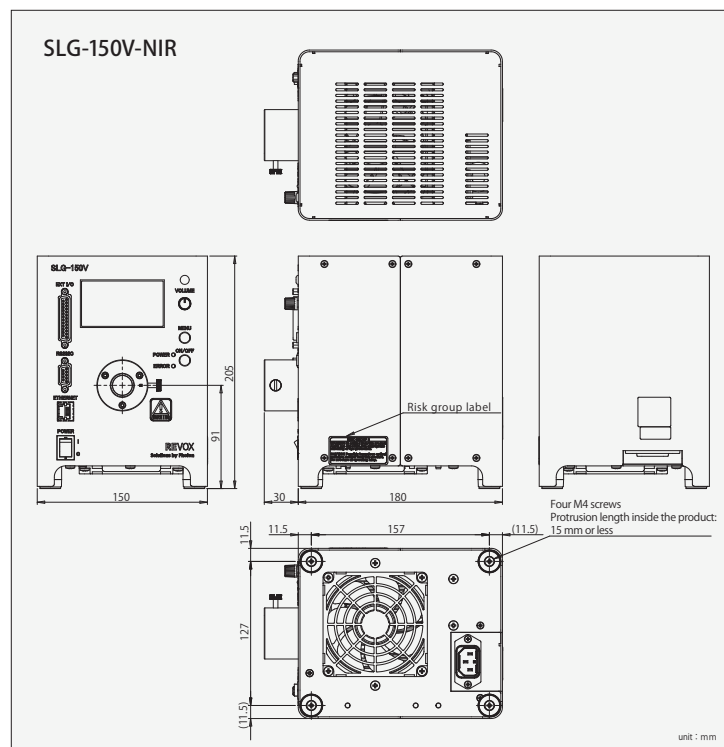
SLG-150V-□-□-□-□
① ② ③ ④

- Feedback function: FB (available)*1, non (not available)
- LED peak wavelength: 850nm→850/ 940nm→940/ 1,060nm→1060/ 1,100nm→1100 / 1,150nm→1150/ 1,200nm→1200/ 1,300nm→1300/ 1,450nm→1450 / 1,550nm→1550
- Applicable fiber bundle diameter: φ8~14mm→M
- Light distribution angle: 30° → N / 50° → M*2

*1) When ①Feedback function: FB (available), ②LED peak wavelength: 1,150/1,200/1,300/1,450/1,550nm cannot be selected.

*2) When ②LED peak wavelength: 850~1,200nm, ④Light distribution angle: 50° → M cannot be selected. When ②LED peak wavelength: 1,300/1,450/1,550nm, ④Light distribution angle: 30° → N cannot be selected.

APPEARANCE



OPTION

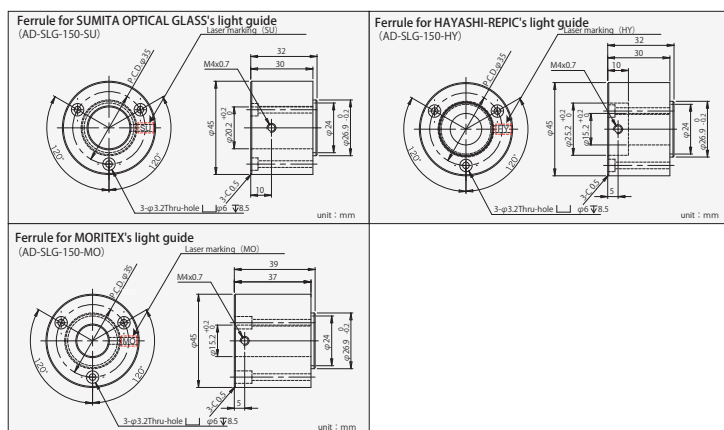
Light guide, Adapter for light guide

We suggest a suitable light guide such as straight, ring or line type.



FERRULE ADAPTOR

Select a ferrule that matches the dimensions of your light guide.



Note | Please carefully read the operation instruction guide prior to use. The above specifications are subject to change without notice.
SLG-150V-NIR emits strong infrared light. Light-absorbing material may have damages because it converts the light output into heat.

Creating the future with light

REVOX, Inc.

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Sales Dept.

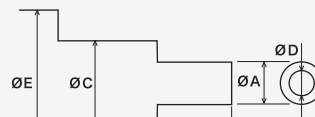
AR Shin-Yokohama Bldg. 8F, 2-17-19 Shin-Yokohama,
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TECH SPEC

Model No.	SLG-150V-①-MN SLG-150VFB-②-MN SLG-150V-③-MN ① : 850 / 940 / 1060 / 1100 / 1150 / 1200 ② : 850 / 940 / 1060 / 1100 ③ : 1300 / 1450 / 1550
Input power supply	AC100~240V (±10%)、50/60Hz
Power consumption (typ.)	850nm/940nm : 95VA、1,060nm/1,100nm : 110VA 1,150nm/1,200nm/1,300nm/1,450nm/1,550nm : 115VA
Insulation withstand voltage (Input FG)	1,500 VAC for one minute cutoff current: 10 mA, 500 VDC, 20 M, min.
Operating environment	Temperature: 5 to 40°C, Humidity: 20 to 80% (with no condensation)
Storage environment	Temperature: -15 to 60°C, Humidity: 20 to 80% (with no condensation)
Applicable fiber bundle diameter	φ8~φ14mm
LED life (Not guaranteed)	850nm/940nm/1,100nm/1,150nm/1,200nm/1,300nm/1,450nm /1,550nm : 30,000 h 1,060nm : 23,000 h
Drive method	Constant-current drive
Cooling method	Forced cooling
Environmental regulations	RoHS compliant
CE marking	Safety standards : Conforms to EN61010-1 EMC standards : Conforms to EN61000-6-2、EN61000-6-4、EN62311
PSE	Conforms to Technical Standards
Risk Group	850nm/940nm : Risk Group 3 1,060nm/1,100nm : Risk Group 2 1,150nm : Risk Group 1 / 1,200~1,550nm : NA
Material, coating and surface processing	Aluminium alloy (Alumite)
Weight	Approx. 3.9 kg
Accessories	One Instruction Guide

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