

UV-VIS LIGHT SOURCE

COMPACT UV-VIS S2D2 FIBER LIGHT SOURCE

L10671

OVERVIEW

The L10671 is the compact UV-VIS fiber light source using a S2D2 (Stable and Small Deuterium) lamp. The L10671 is the light source that offers high radiant power and high stability despite its compact size. Besides being compact and easy to carry, the L10671 operates on a low voltage. These features make the L10671 ideal for all types of portable devices requiring a UV-VIS light source.

FEATURES

- Compact Size: 72 mm × 40 mm × 90 mm
- High Stability: Fluctuation 0.004 % p-p (Typ.)
(Equivalent to 2×10^{-5} A.U.)
- External Control
- Shutter Function

APPLICATIONS

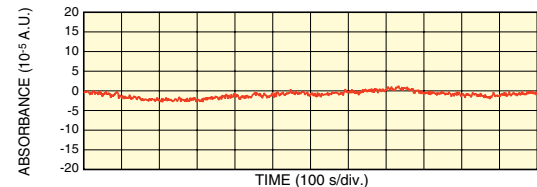
- Spectrophotometry
- Environmental Measurement
- Absorption Spectrum Measurement
- Micro Titer Plate Reader
- Pharmaceutical Testing
- High-Performance Liquid Chromatography
- Film Thickness Measurement
- Biological Measurement
- Semiconductor Inspection
- Optical Component Inspection



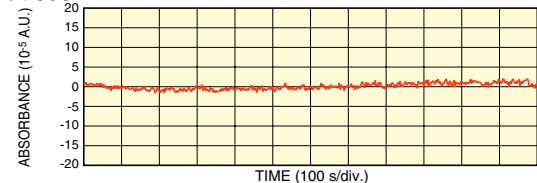
* Light guide is sold separately.

LIGHT OUTPUT STABILITY

● at 230 nm

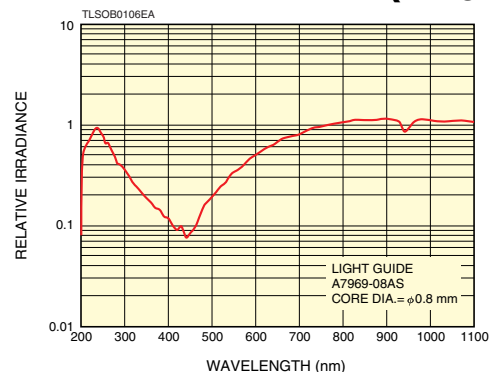


● at 600 nm



TL50B0107EA

SPECTRAL DISTRIBUTION (TYPICAL DATA)



SPECIFICATIONS

Parameter	Specifications
Spectral Distribution	200 nm to 1600 nm
Built-in Lamp	S2D2 Lamp 0.5 W Tungsten Lamp
Output Stability	Fluctuation (Typ.) 0.004 % p-p (Equivalent to 2×10^{-5} A.U.)
	Drift (Max.) ± 0.25 %/h
Input Voltage (AC) ^{①②}	100 V to 240 V (50 Hz/60 Hz)
Power Consumption ^①	10 VA
Weight	200 g
Light Guide Connector	SMA905D
Shutter	Included
External Control	Lamp ON/OFF
	Shutter open/close
	Status Signal for Lamp ON/OFF and Main Power ON/OFF
Main Unit Switch	Shutter open/close
Operating Ambient Temperature	0 °C to +40 °C
Operating Ambient Humidity	Below 80 %
Storage Temperature	-10 °C to +60 °C
Storage Humidity	Below 85 %
Applicable Standard	CE Marking

NOTE: ①When used with AC adapter (supplied).

②Input voltage to light source unit is 12 V dc (8.5 V dc to 13.2 V dc).

REPLACEMENT LAMP

Type No.	Lamp	Lamp Life ^③
L10671D	S2D2 Lamp	800 h
L10671W	Tungsten Lamp	1000 h

NOTE: ③Guaranteed life. Defined as the time when the radiant intensity falls to 50% of its initial value or the radiant output fluctuation exceeds 0.05 %.

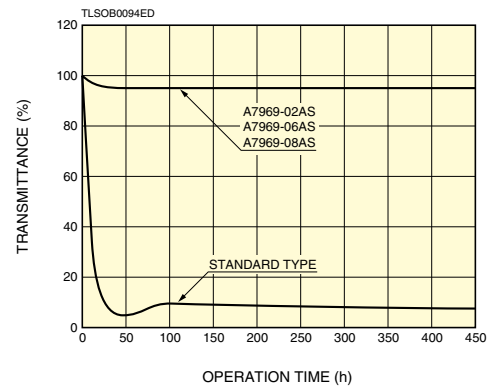
LIGHT GUIDE ^④ (SOLD SEPARATELY)

Type No.	Core Diameter	Length
A7969-02AS ^⑤	0.2 mm	1.0 m
A7969-06AS ^⑤	0.6 mm	
A7969-08AS ^⑤	0.8 mm	

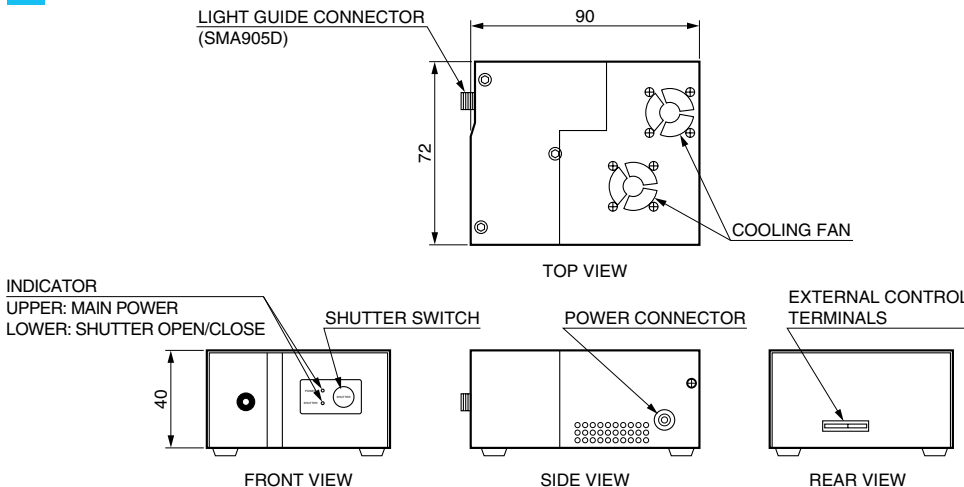
NOTE: ④Other shapes and combinations are available upon request.

⑤UV-resistant light guide.

UV RESISTANT CHARACTERISTICS (at 215 nm)



DIMENSIONAL OUTLINES (Unit: mm)



ACCESSORIES (Supplied)

- AC Adapter
- External Control Cable
- Instruction Manual

EXTERNAL CONTROL TERMINALS PINOUT

PIN No.	Signal Name
①	Deuterium lamp ON/OFF
②	Tungsten lamp ON/OFF
③	Shutter open/close
④	Deuterium lamp status signal
⑤	Tungsten lamp status signal
⑥	No connection
⑦	Main power ON/OFF status signal
⑧	No connection
⑨	No connection
⑩	GND

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CE This product complies with safety standard EN61010-1, EMC standard EN61326-01.

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