

# 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  $2 \times 10^{-5}$  A.U.)
- External Control
- Shutter Function

## APPLICATIONS

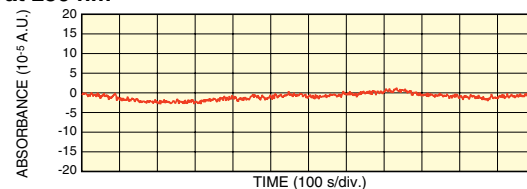
- Spectrophotometry
- Environmental Measurement
- Absorption Spectrum Measurement
- Micro Titer Plate Reader
- Pharmaceutical Testing
- High-Performance Liquid Chromatography
- Film Thickness Measurement
- Biological Measurement
- Semiconductor Inspection
- Optical Component Inspection



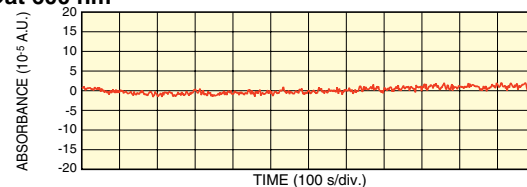
\* Light guide is sold separately.

## LIGHT OUTPUT STABILITY

● at 230 nm

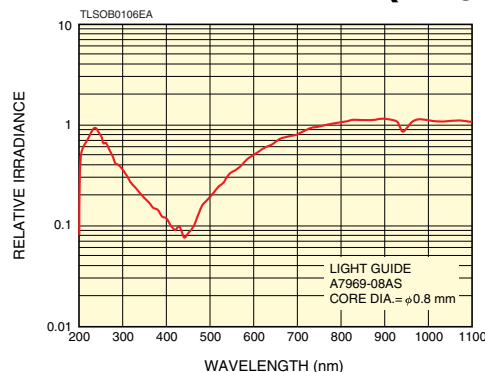


● at 600 nm



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## SPECTRAL DISTRIBUTION (TYPICAL DATA)



# SPECIFICATIONS

| Parameter                     |   | Specifications   |
|-------------------------------|---|--|
| Spectral Distribution         |   | 200 nm to 1600 nm                                      |
| Built-in Lamp                 |   | S2D2 Lamp<br>0.5 W Tungsten Lamp                       |
| Output Stability              | Fluctuation (Typ.)                                  | 0.004 % p-p<br>(Equivalent to $2 \times 10^{-5}$ A.U.) |
|                               | Drift (Max.)  | $\pm 0.25$ %/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     | 1500 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 %.

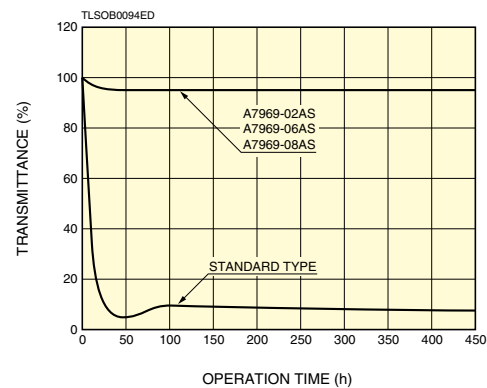
# LIGHT GUIDE ④ (SOLD SEPARATELY)

| 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        |        |

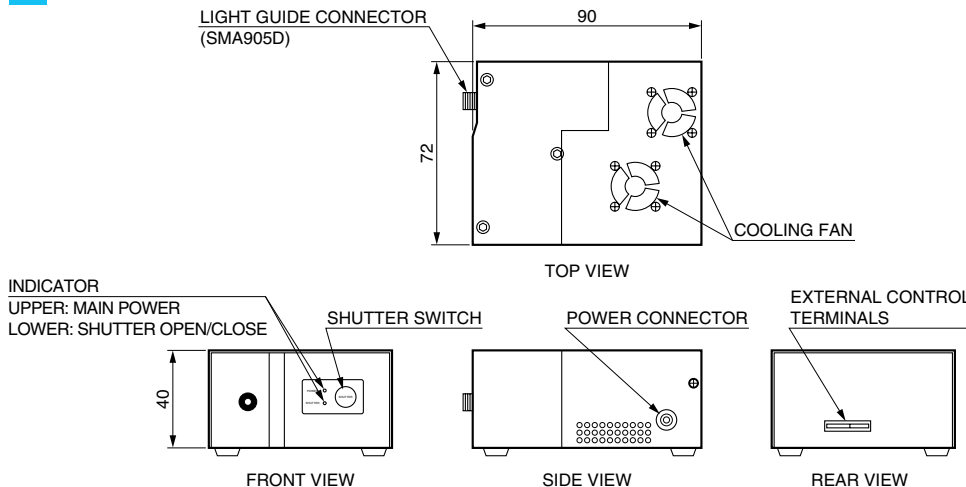
NOTE: ④Other shapes and combinations are available upon request.

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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