

NEW

COMPACT UV-VIS S2D2 FIBER LIGHT SOURCE (UV Enhanced Type)

L12515

OVERVIEW

The L12515 is a UV-visible fiber light source containing the world's smallest* compact deuterium lamp (S2D2 lamp). Compared to conventional S2D2 lamps, the L12515 gives a higher S/N ratio by enhancing the light output in the UV region.

Despite a small and easy-to-carry size, the L12515 delivers high output, high stability, and low voltage operation, making it ideal for assembly into compact chemical analysis devices.

* As of September 2013 by our research



* Light guide is sold separately.

FEATURES

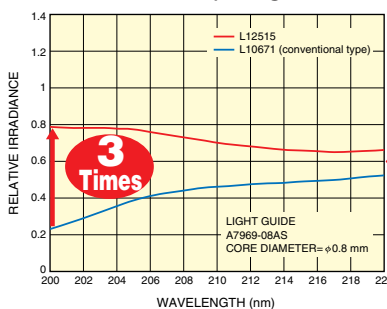
- **Compact:** 74 mm × 40 mm × 110 mm
- **High Stability:** Fluctuation 0.004 %p-p (Typ.)
(equivalent to 2×10^{-5} A.U.)
- **Long Service Life:** 1500 hours guaranteed
(compact deuterium lamp)
- **Improved S/N Ratio Due to Enhanced Output in the UV Region**
- **External Control**
- **Shutter Function**

APPLICATIONS

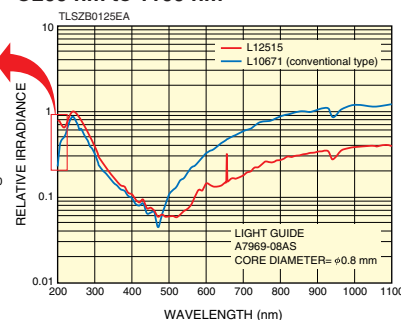
- Spectrophotometry
- Environmental Measurement
- Absorption Spectrum Measurement
- Pharmaceutical Testing
- High-Performance Liquid Chromatography
- Film Thickness Measurement
- Biological Measurement
- Semiconductor Inspection
- Optical Component Inspection

SPECTRAL DISTRIBUTION (TYPICAL DATA)

● 200 nm to 220 nm (enlarged view of enhanced output region)

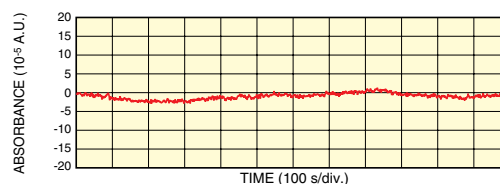


● 200 nm to 1100 nm

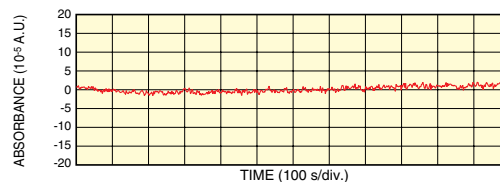


LIGHT OUTPUT STABILITY

● at 230 nm



● at 600 nm



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SPECIFICATIONS

Parameter	Description / Value
Spectral Distribution	200 nm to 1600 nm
Built-in Lamps	Compact Deuterium Lamp Tungsten Lamp ^③
Output Fluctuation (Typ.)	0.004 %p-p (Equivalent to 2×10^{-5} A.U.)
Stability Drift (Max.)	± 0.25 %/h
Input Voltage (AC) ^{①②}	100 V to 240 V (50 Hz/60Hz)
Power Consumption ^①	10 VA
Weight	230 g
Light Guide Connector	SMA905D
Shutter	Provided as Standard Lamp ON / OFF
External Control	Shutter Open / Close
	Lamp ON/OFF, Main Power ON/OFF, Status Signal
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 %

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

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

③ Tungsten lamp light intensity can be adjusted in the range from 20 % to 100 %.

REPLACEMENT LAMP

Type No.	Lamp	Lamp service life ^④
L10671D	Compact Deuterium Lamp	1500 h
L10671W	Tungsten Lamp	1000 h

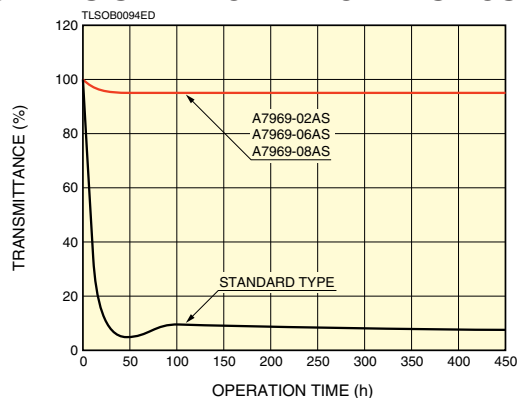
NOTE: ④ Guaranteed service life. Defined as the time when the radiant intensity falls to 50 % of its initial value or the radiant output fluctuation exceeds 0.05 %.

LIGHT GUIDE (sold separately)

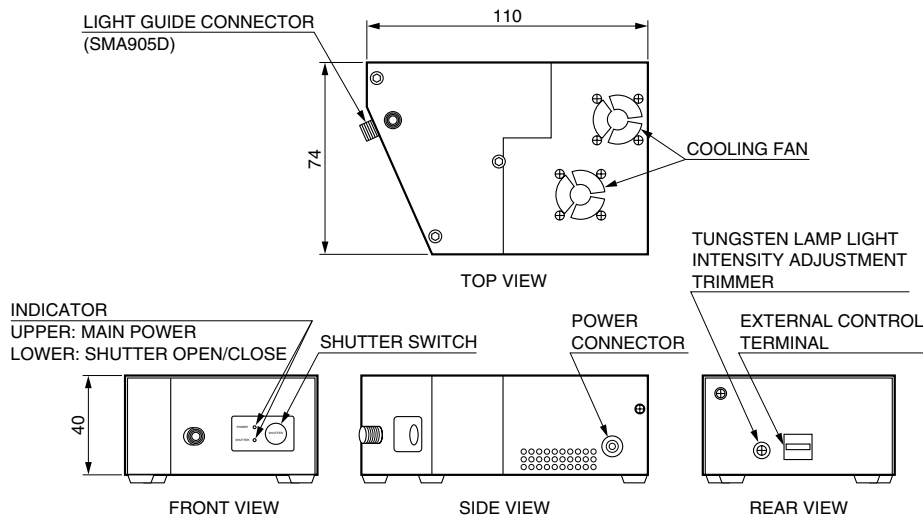
Type No.	Core Diameter	Length
A7969-02AS ^⑤	0.2 mm	1.0 m
A7969-06AS ^⑤	0.6 mm	
A7969-08AS ^⑤	0.8 mm	

NOTE: ⑤ UV-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	GND

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