

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.

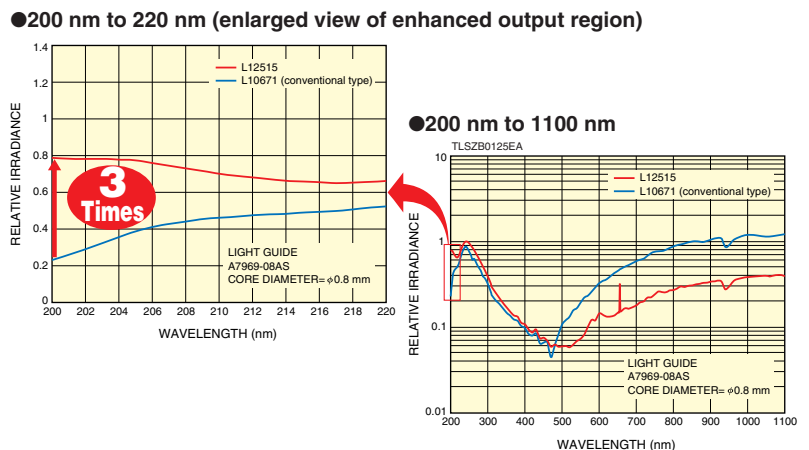
FEATURES

- **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**

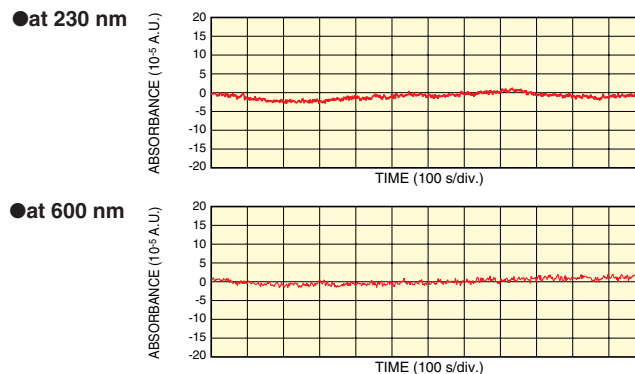
APPLICATIONS

- 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)



LIGHT OUTPUT STABILITY



TLSOB0107EA

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
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

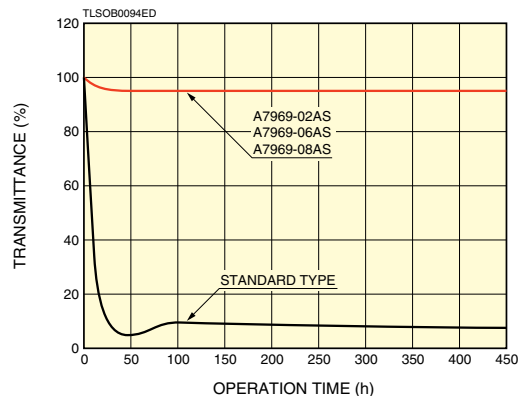
NOTE: ④ Guaranteed service life. Defined as the time when the radiant intensity falls to 50 % of its initial value or the radiant output fluctuation exceeds 0.05 %.

LIGHT GUIDE (sold separately)

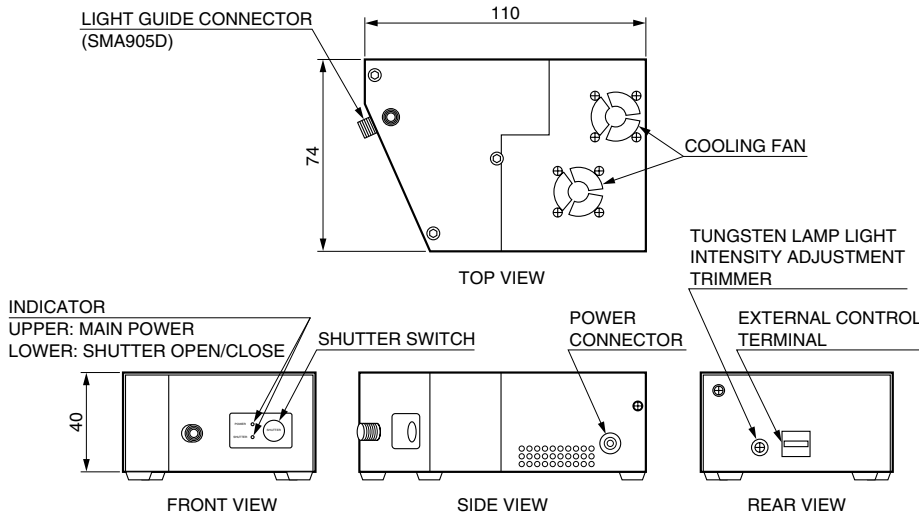
Type No.	Core Diameter	Length
A7969-02AS ^⑤	0.2 mm	1.0 m
A7969-06AS ^⑤	0.6 mm	
A7969-08AS ^⑤	0.8 mm	

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

TLS2A0037EA

Subject to local technical requirements and regulations, availability of products included in this promotional material may vary. Please consult with our sales office. Information furnished by HAMAMATSU is believed to be reliable. However, no responsibility is assumed for possible inaccuracies or omissions. Specifications are subject to change without notice. No patent rights are granted to any of the circuits described herein. ©2013 Hamamatsu Photonics K.K.

HAMAMATSU PHOTONICS K.K. www.hamamatsu.com

HAMAMATSU PHOTONICS K.K., Electron Tube Division

314-5, Shimokanzo, Iwata City, Shizuoka Pref., 438-0193, Japan, Telephone: (81)539/62-5248, Fax: (81)539/62-2205

U.S.A.: Hamamatsu Corporation: 360 Foothill Road, P. O. Box 6910, Bridgewater, N.J. 08807-0910, U.S.A., Telephone: (1)908-231-0960, Fax: (1)908-231-1218 E-mail: usa@hamamatsu.com

Germany: Hamamatsu Photonics Deutschland GmbH: Arzbergerstr. 10, D-82211 Herrsching am Ammersee, Germany, Telephone: (49)8152-375-0, Fax: (49)8152-2658 E-mail: info@hamamatsu.de

France: Hamamatsu Photonics France S.A.R.L.: 19, Rue du Saule Trappu, Parc du Moulin de Massy, 91882 Massy Cedex, France, Telephone: (33)1 69 53 71 00, Fax: (33)1 69 53 71 10 E-mail: info@hamamatsu.fr

United Kingdom: Hamamatsu Photonics UK Limited: 2 Howard Court, 10 Tewin Road Welwyn Garden City Hertfordshire AL7 1BW, United Kingdom, Telephone: 44-(0)1707-294888, Fax: 44-(0)1707-325777 E-mail: info@hamamatsu.co.uk

North Europe: Hamamatsu Photonics Norden AB: Thorshamnsgatan 35 SE-164 40 Kista, Sweden, Telephone: (46)8-509-031-00, Fax: (46)8-509-031-01 E-mail: info@hamamatsu.se

Italy: Hamamatsu Photonics Italia: S.R.L.: Strada della Moia, 1/E, 20020 Arese, (Milano), Italy, Telephone: (39)02-935 81 733, Fax: (39)02-935 81 741 E-mail: info@hamamatsu.it

China: Hamamatsu Photonics (China) Co., Ltd.: 1201 Tower B, Jiaming Center, 27 Dongsanhuan Road North, Chaoyang District, Beijing 100020, China, Telephone: (86)10-6586-6006, Fax: (86)10-6586-2866 E-mail: hpc@hamamatsu.com.cn

TLSZ1022E01
OCT. 2013 IP