

# NEW

# HIGH POWER UV-VIS FIBER LIGHT SOURCE

## L10290

### OVERVIEW

The L10290 is a newly developed UV-visible fiber light source that outputs 200 nm to 1100 nm light through a light guide (sold separately).

Using a "high brightness lamp", the L10290 provides twice radiant intensity that of conventional models. Besides a compact size and light weight that make it simple to carry, the L10290 is specifically designed for easy use. These features make the L10290 ideal for all types of portable devices.



\* Light guide is sold separately.

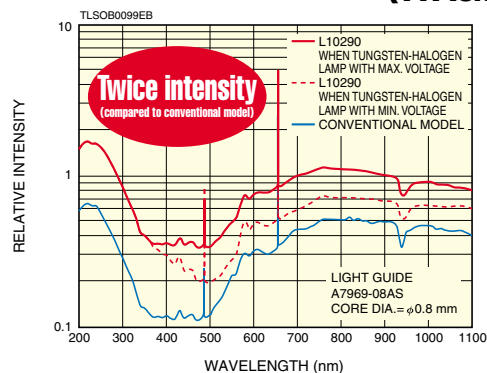
### FEATURES

- **High Output: Twice Intensity** (Compared to Conventional Model)
- **High Stability: Fluctuation 0.004 %p-p Typ.** (Equivalent to  $2 \times 10^{-5}$  A.U.)
- **Long Life Lamp: 2000 Hours**
- **External Control**
- **Shutter Function**
- **Filter Holder (Sold Separately)**

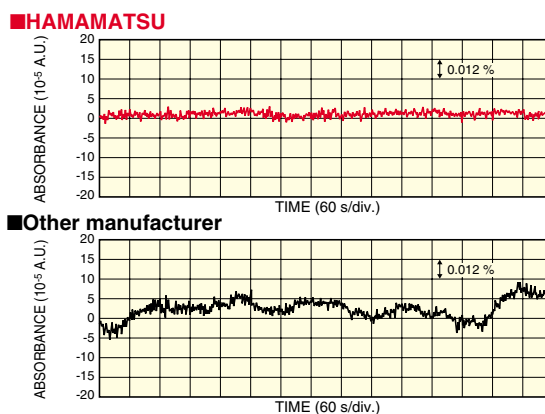
### APPLICATIONS

- **Spectrophotometry**
- **Environmental Measurement**
- **Absorption Spectrum Measurement**
- **Micro Titer Plate Reader**
- **Pharmaceutical Testing**
- **Film Thickness Measurement**
- **Semiconductor Inspection**
- **Optical Component Inspection**

### SPECTRAL DISTRIBUTION (TYPICAL DATA)



### LIGHT OUTPUT STABILITY (at 230 nm)



TLSOB0099EB

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# SPECIFICATIONS

Parameter	Specifications
Spectral Distribution	200 nm to 1100 nm <sup>①</sup>
Built-in Lamp	High Brightness Deuterium Lamp 9 W Tungsten Halogen Lamp <sup>②</sup>
Output	Fluctuation (Typ.) 0.004 % p-p (Equivalent to $2 \times 10^{-5}$ A.U.)
Stability	Drift (Max.) $\pm 0.3$ %/h
Input Voltage (AC)	100 V to 240 V (100 V/200 V Auto Switching) Single Phase 50 Hz/60 Hz
Power Consumption (Max.)	140 VA
Weight	Approx. 4 kg
Light Guide Connector	SMA905D
Shutter	Included
External Control	Lamp ON/OFF <sup>③</sup>
	Shutter open/close
	Status Signal for Lamp ON/OFF and Main Power ON/OFF
Main Unit Switch	Main Power ON/OFF
	Lamp ON/OFF <sup>③</sup> Shutter open/close

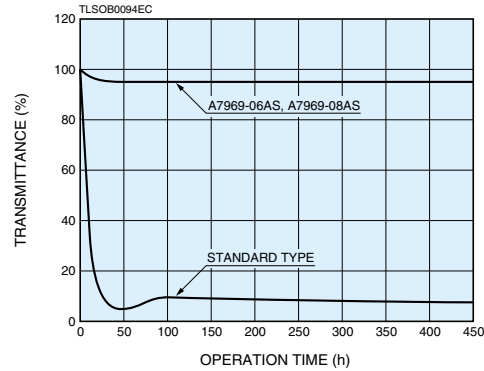
**NOTE:** <sup>①</sup>The deuterium lamp (200 nm to 400 nm) and tungsten halogen lamp (400 nm to 1100 nm) can each radiate light separately.  
<sup>②</sup>Tungsten halogen lamp intensity is adjustable within a range of  $\pm 20$  %.  
<sup>③</sup>The deuterium lamp and tungsten halogen lamp can each be turned on or off separately.

# LIGHT GUIDE <sup>⑤</sup> (SOLD SEPARATELY)

Type No.	Core Diameter	Length
A7969-06AS <sup>⑥</sup>	0.6 mm	1.0 m
A7969-08AS <sup>⑥</sup>	0.8 mm	

**NOTE:** <sup>⑤</sup>Other shapes and combinations are available upon request.  
<sup>⑥</sup>AS type is a UV resistant light guide.

## UV RESISTANT CHARACTERISTICS (at 215 nm)



# REPLACEMENT LAMP

Type No.	Lamp	Lamp Life <sup>④</sup>
L10295	High Brightness Deuterium Lamp	2000 h
L10296	9 W Tungsten Halogen Lamp	2000 h

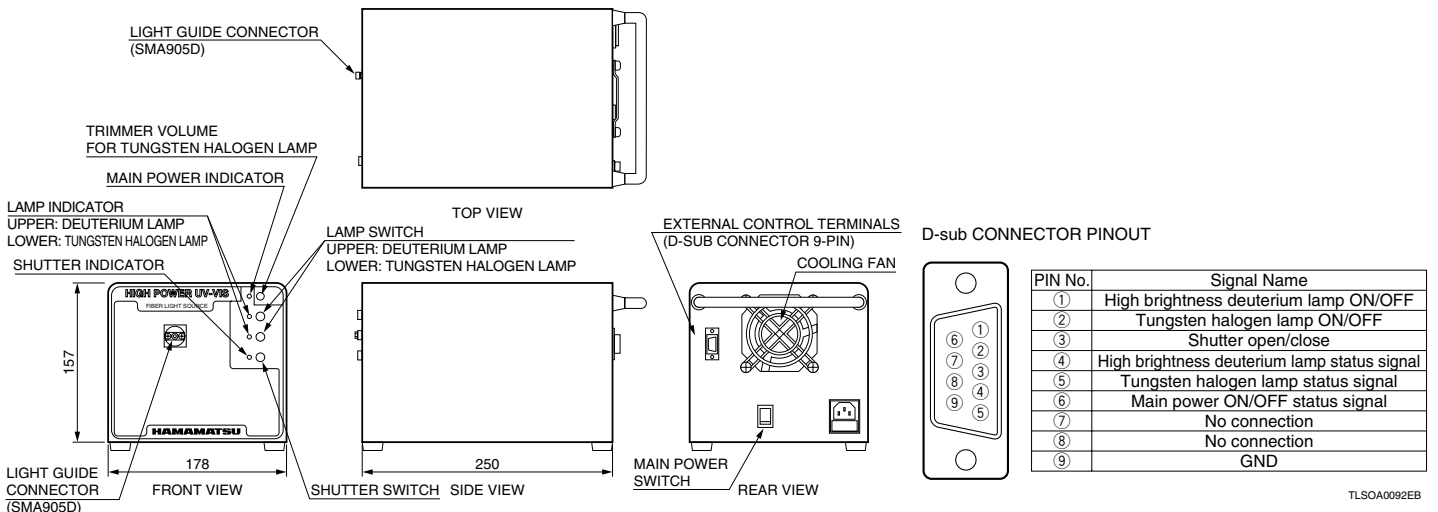
**NOTE:** <sup>④</sup>Guaranteed life. Defined as the time when the radiant intensity falls to 50 % of its initial value.

# FILTER HOLDER (SOLD SEPARATELY)

Type No.	Applicable Filter
A10394	3 mm thick, 1 inch dia. or 1 x 1 inch

Filters should be prepared by the user.  
 When attaching a filter holder, remove the cover and insert the filter holder into the lamp house.

# DIMENSIONAL OUTLINES (Unit: mm)



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WEB SITE [www.hamamatsu.com](http://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](mailto: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](mailto:info@hamamatsu.de)

France: Hamamatsu Photonics France S.A.R.L.: 19, Rue du Saule Trapu, 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: [infos@hamamatsu.fr](mailto:infos@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](mailto:info@hamamatsu.co.uk)

North Europe: Hamamatsu Photonics Norden AB: Smidesvägen 12, SE-171-41 SOLNA, Sweden, Telephone: (46)8-509-031-00, Fax: (46)8-509-031-01 E-mail: [info@hamamatsu.se](mailto: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](mailto:info@hamamatsu.it)

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