UV-VIS LIGHT SOURCE

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 1600 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.

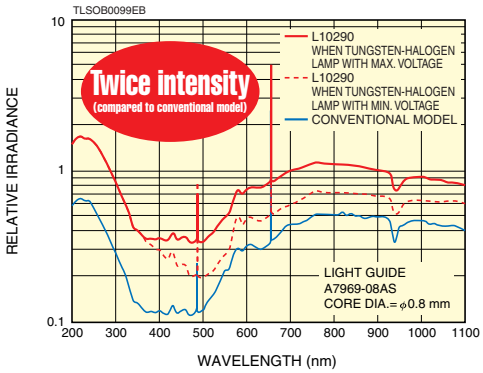


∗ Light guide is sold separately.

FEATURES

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

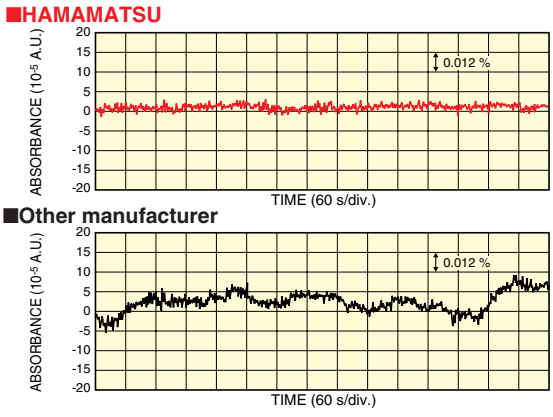
SPECTRAL DISTRIBUTION (TYPICAL DATA)



APPLICATIONS

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

LIGHT OUTPUT STABILITY (at 230 nm)



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SPECIFICATIONS

Parameter		Specifications
Spectral Distribution		200 nm to 1600 nm ①
Built-in Lamp		High Brightness Deuterium Lamp 9 W Tungsten Halogen Lamp ②
Output Stability	Fluctuation (Typ.)	0.004 % p-p (Equivalent to 2×10^{-5} A.U.)
	Drift (Max.)	±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 ③
		Shutter open/close
		Status Signal for Lamp ON/OFF and Main Power ON/OFF
Main Unit Switch		Main Power ON/OFF
		Lamp ON/OFF ③
		Shutter open/close
Applicable Standard		CE Marking

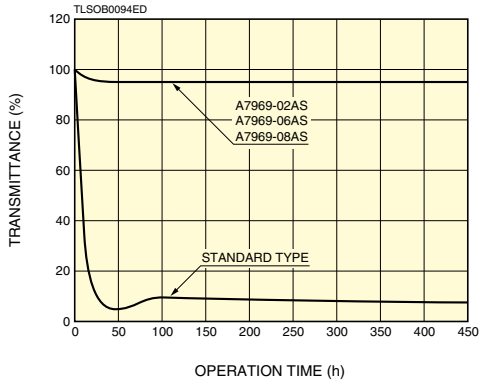
NOTE: ①The deuterium lamp (200 nm to 400 nm) and tungsten halogen lamp (400 nm to 1600 nm) can each radiate light separately.
②Tungsten halogen lamp intensity is adjustable within a range of ±20 %.
③The deuterium lamp and tungsten halogen lamp can each be turned on or off separately.

LIGHT GUIDE⑤ (SOLD SEPARATELY)

Type No.	Core Diameter	Length
A7969-02AS ⑥	0.2 mm	1.0 m
A7969-06AS ⑥	0.6 mm	
A7969-08AS ⑥	0.8 mm	

NOTE: ⑤Other shapes and combinations are available upon request.
⑥UV resistant light guide.

UV RESISTANT CHARACTERISTICS (at 215 nm)



REPLACEMENT LAMP

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

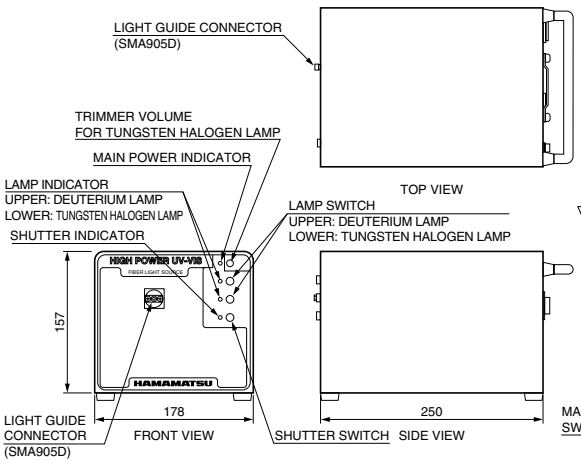
NOTE: ④Guaranteed life. Defined as the time when the radiant intensity falls to 50 % of its initial value.

FILTER HOLDER (SOLD SEPARATELY)

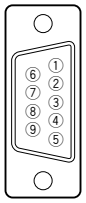
Type No.	Applicable Filter
A10394	3 mm thick, 1 inch dia. or 1 × 1 inch

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)



D-sub CONNECTOR PINOUT



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

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

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