UVCL

UV Cathode emitting Light source

265 nm | 305 nm

UV light source that can be used instantly

HAMAMATSU

PHOTON IS OUR BUSINESS

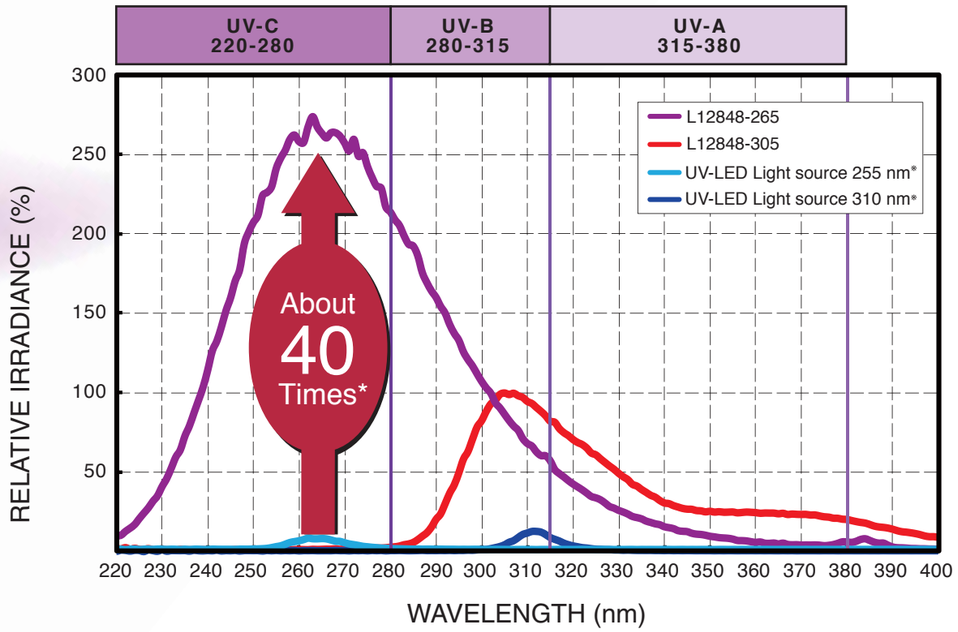
UV light source that can be used instantly

High power and long life.
Compact and easy to use.

The UVCL, developed by our many years of accumulated techniques and experiences, offers both high light output and long lifetime.
The product also features easy operation through an AC connection, and compact size.

High output

▼SPECTRAL DISTRIBUTION



*This irradiance graph is compared with UV-LED operated in 30 mA dc.

• This irradiance graph shows relative values when the maximum irradiance of L12848-305 is given as 100 %.

Mercury free

Environmentally friendly
No worries about future mercury regulation

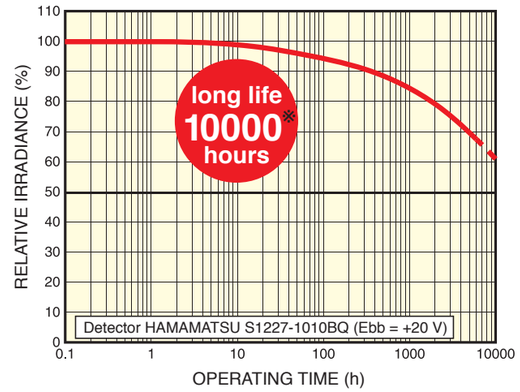
Compact

Easy installation due to its compact design
Suitable light source for compact devices

Long lifetime

UVCL can sustain high light output. This unit achieves 5000 hours of long life. Less maintenance time contributes to cost reduction.

▼LIFETIME CHARACTERISTICS

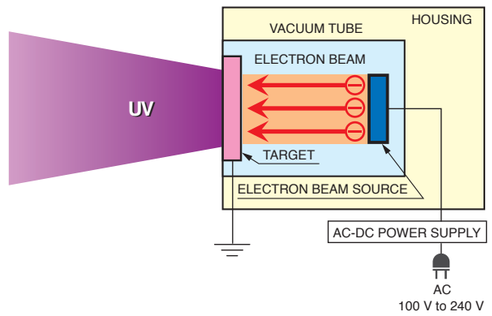


Life characteristics for L12848-305
※10000 hours is estimated life. Guaranteed service life is 5000 hours.

All in one

No need to design housing
Easy operation: just connect to an AC power supply

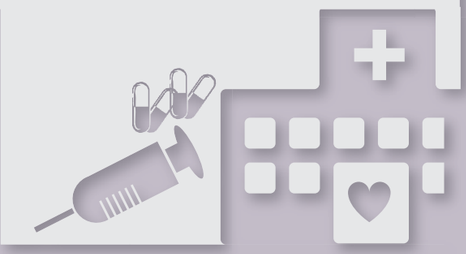
▼INTERNAL STRUCTURE



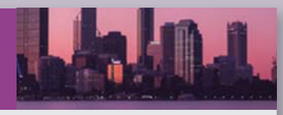
Application

Medical

Sterilization of medical container / package
Various analysis (protein, blood, etc.)
Specimen inspection device
Basic research for phototherapy



Industrial



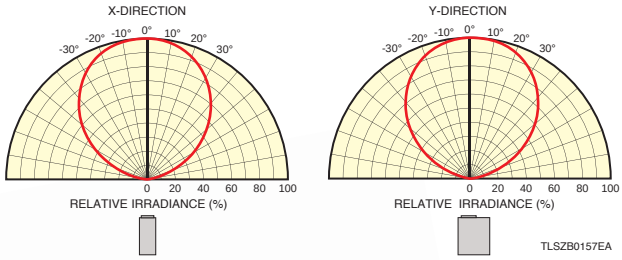
UV curing
UV bonding
Container / packing sterilization
Material tolerance evaluation

Environment

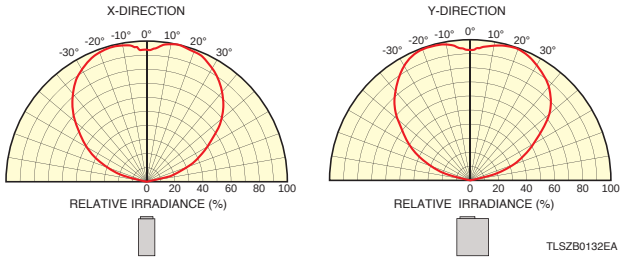
Various analysis
(water quality, exhaust gas, soil, etc.)
Chemical substance decomposition
Light source for inspection / measurement

DIRECTIVITY (LIGHT DISTRIBUTION)

L12848-265



L12848-305

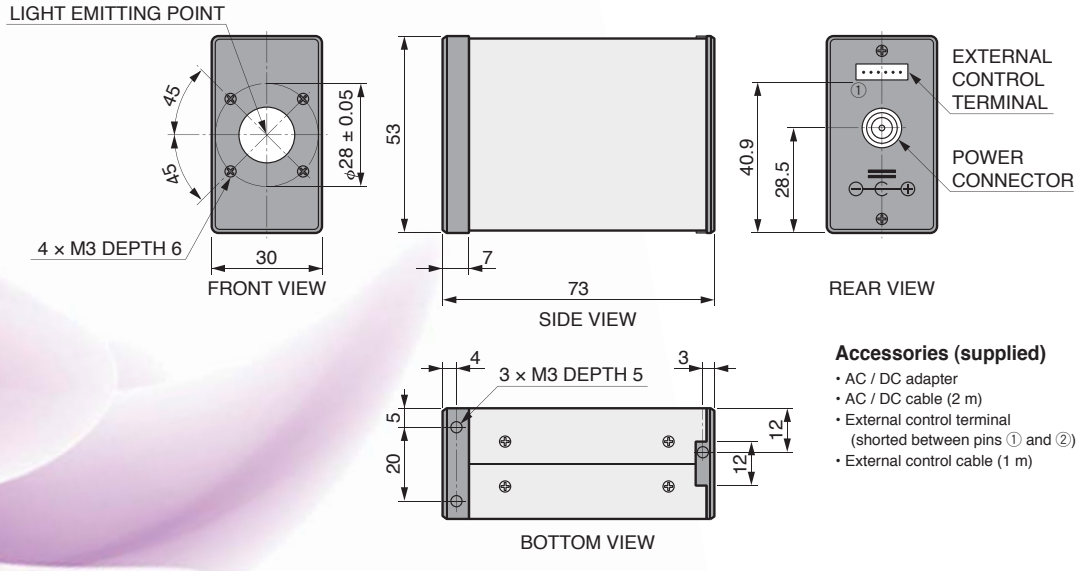


SPECIFICATIONS

Parameter			L12848-265	L12848-305	UNIT
Emission wavelengh range			220 to 350	290 to 400	nm
Peak wavelength			265	305	nm
Light output stability	Fluctuation (p-p)	Max.	0.3		%
	Drift	Max.	3		%/h
Guaranteed service life ①			5000		h
Estimated life			10,000		h
Light-emitting point size			Approx. ϕ5		mm
Input voltage (AC) ②			100 to 240 (50 Hz / 60 Hz)		V
Power consumption			6		W
External control			Lamp ON/OFF, Lamp status signal		-
Operating temperature range			0 to +40		°C
Operating humidity range			Below 80 (no condensation)		%
Storage temperature range			-10 to +60		°C
Storage humidity range			Below 85 (no condensation)		%
Weight			Approx. 230		g

NOTE: ①Guaranteed service life is defined as the time when light intensity at peak wavelength falls below 50 % of the initial value or light output stability exceeds the guaranteed value.
②Input voltage to the light source power connector is 12 V DC (11.4 V DC to 12.6 V DC). When used with the supplied AC / DC adapter.

DIMENSIONAL OUTLINES (Unit: mm)



External control terminal pin arrangement

Pin No.	Signal name
①	Lamp ON/OFF
②	
③	Lamp status signal
④	
⑤	N.C.
⑥	N.C.

Accessories (supplied)

- AC / DC adapter
- AC / DC cable (2 m)
- External control terminal (shorted between pins ① and ②)
- External control cable (1 m)

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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, 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 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
United Kingdom: Hamamatsu Photonics UK Limited: 2 Howard Court, 10 Tewin Road, Welwyn Garden City, Hertfordshire AL7 1BW, United Kingdom, Telephone: (44)1707-294888, Fax: (44)1707-325777 E-mail: info@hamamatsu.co.uk
North Europe: Hamamatsu Photonics Norden AB: Torshamnsgatan 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 int. 6, 20020 Arese (Milano), Italy, Telephone: (39)02-93581733, Fax: (39)02-93581741 E-mail: info@hamamatsu.it
China: Hamamatsu Photonics (China) Co., Ltd.: B1201 Jiaming Center, No.27 Dongsanhuan Beilu, Chaoyang District, Beijing 100020, China, Telephone: (86)10-6586-6006, Fax: (86)10-6586-2866 E-mail: hpc@hamamatsu.com.cn

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