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HAMAMATSU

LIGHTNINGCURE 200

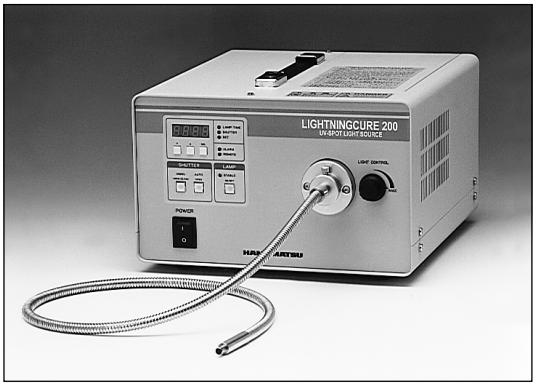
200W UV SPOT LIGHT SOURCE

L7212 SERIES

PATENT

Compact, long service life and high UV intensity

The LIGHTNINGCURE 200 series is high-power yet compact UV spot light source using a 200W Super-Quiet Mercury-Xenon lamp. A built-in condenser reflector collects intense UV light emitted from the Mercury-Xenon lamp into a quartz fiber(light guide) or large-area uniform beam optics, to irradiate the target object with extreme efficiency. When used in UV adhesive curing, the LIGHTNINGCURE 200 series allows quick curing in as short a time as several seconds without causing thermal damage to the target object or peripheral parts. These features make the LIGHTNINGCURE 200 very useful in adhesion processes for electronic and optical components that are vulnerable to heat. Hamamatsu also provides the L7212-03 spot light source using a 150W Super-Quiet Xenon lamp optimized for adhesive curing by visible light, allowing you select the desired light source according to your application.



FEATURES

- **Long service life: 3000 hours (average life)**
  The built-in, Super-Quiet Mercury-Xenon lamp(200W) features a highly durable electrode that ensures high stability over an extended operating time. This greatly reduces production process maintenance costs.
- **High UV intensity: 15W/cm$^{2ⓐ}$ (3.5W/cm$^{2ⓑ}$)**
  Use of low - loss optical systems ensures UV intensity as high as 15W/cm^2 at the output end of a light guide.
- **No optical alignment required**
  A Super-Quiet Mercury-Xenon lamp(200W) has a unique electrode structure that offers virtually no arc-point movement, so the L7212 series eliminates the need for optical alignment throughout the operating life of the lamp.
- **External Control**
  Various functions, lamp ON/OFF, shutter ON/OFF, lamp stable signal, and shutter status signal are available from the D-sub connection.
- **Built-in 100/200V automatic switching power supply**
  The 100/200V automatic switching power supply makes it easy to use the LIGHTNINGCURE series in any country.
- **Compatible with different adhesives**
  Three models are available for use with different adhesives: a 365nm type (L7212-01), 250nm range enhanced type (L7212-02) and visible light type (L7212-03).

APPLICATIONS

- **UV curing for optical parts**
- **UV curing for electronic parts**
- **UV curing for optical fiber coatings**
- **Sealing of liquid crystals**
- **Fixing of coil winding**
- **Drying of UV-activated ink**
- **UV excitation light sources**
- **Experiments using intense UV radiation**

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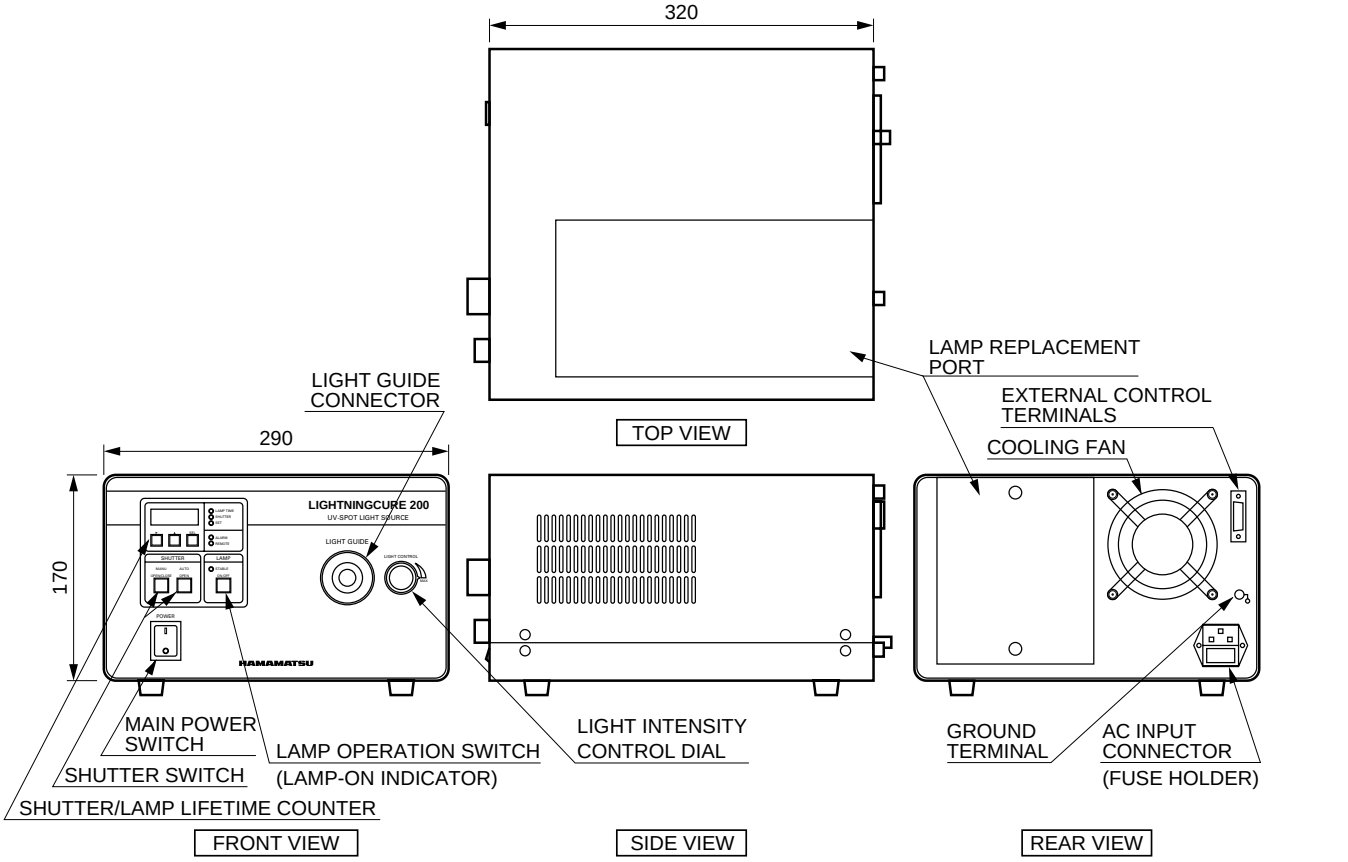
LIGHTNINGCURE 200

SPECIFICATION

UV Intensity (except - 03)		15W/cm²ⓐ (3.5W/cmⓑ)
Radiant Spectral Rangeⓒ	L7212-01	300 to 450 nm (365 nm Type)
	L7212-02	240 to 400 nm (250 nm Range Enhanced Type)
	L7212-03	400 to 700 nm (Visible Light Type)
Lamp	L7212-01	200W Super-Quiet Mercury - Xenon Lamp L6721 (Ozone-free type)
	L7212-02	200W Super-Quiet Mercury - Xenon Lamp L6722
	L7212-03	150W Super-Quiet Xenon Lamp L6723
Lamp Service Lifeⓓ		Guaranteed Life:2000 hours, Average Life:3000 hours
Power Input		90 to 250 Vac (100/200V Automatic Switching), 50/60Hz
Power Consumption		300 VA Max.
Weight		Approx. 8kg
Functions		Lamp Timer Alarm Setting, External Control

NOTE: ⓐ UV intensity measured at the end of the light guide, using American UV power meter.
ⓑ UV intensity (365 nm) measured at the center of the radiated spot 10 mm away from the output end of the light guide, using the Hamamatsu C6080-03 UV power meter.
ⓒ Spectral range containing major radiant wavelengths. Various types of filters(option) can also be installed.
ⓓ The life end is defined as the time when the radiant UV intensity of the lamp installed in the light source system falls to 50% of its initial value.

Dimensional Outline (Unit:mm)



* PATENT: JAPAN 1 (PAT No. 2122796)

HAMAMATSU

HAMAMATSU PHOTONICS K.K., Electron Tube Center
314-5, Shimokanzo, Toyooka-village, Iwata-gun, Shizuoka-ken, 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
Germany: Hamamatsu Photonics Deutschland GmbH: Arzbergerstr. 10, D-82211 Herrsching am Ammersee, Germany, Telephone: (49)8152-375-0, Fax: (49)8152-2658
France: Hamamatsu Photonics France S.A.R.L.: 8, 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
United Kingdom: Hamamatsu Photonics UK Limited: Lough Point, 2 Gladbeck Way, Windmill Hill, Enfield, Middlesex EN2 7JA, United Kingdom, Telephone: 44(20)8-367-3560, Fax: 44(20)8-367-6384
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
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

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