Lamp warranty: Guarantees a long operating life of 4000 hours

Light guide is sold separately.
Memory Step™ for 9 types 7-step programs

Program the irradiance and irradiation time to any level you want! Freely set the UV irradiation conditions to match the component you want to bond. The LIGHTNINGCURE LC8 lets you store 9 types of 7-step programs in the memory, so optimal irradiation conditions matching the component for bonding can be set just by changing the program number. This holds true even when multiple bonding components are flowing in the same production process or when shifting to different production lines. The LC8 is especially ideal for components that must be fixed in place with high precision. The mounting positions of these components often deviate due to stress warping and contraction in the adhesive that causes positional shifts. Using the LC8 gives better production stability and higher product yield especially for components demanding high position precision.

Program example 1: Increasing light irradiance in 7 steps

Program example 2: Random irradiance and irradiation time settings

Program example 3: Low irradiance and then long-term high intensity
**FEATURES & FUNCTIONS**

**Long life**

Guaranteed life: 4000 h (-01A type and -02A type)
Irradiance generally declines with lamp operating time. Hamamatsu has drastically improved these drops in irradiance by using a mercury-xenon lamp whose electrodes suffer almost no wear and an improved optical system.

Variations in UV irradiance [365 nm] over time (typical values)

<table>
<thead>
<tr>
<th>OPERATING TIME (h)</th>
<th>RELATIVE IRRADIANCE (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>5000</td>
<td>40</td>
</tr>
<tr>
<td>4000</td>
<td>60</td>
</tr>
<tr>
<td>3000</td>
<td>80</td>
</tr>
<tr>
<td>2000</td>
<td>100</td>
</tr>
</tbody>
</table>

**Full line-up of external control equipment (RS-232C and D-sub connector: standard feature)**
You can turn the lamp on and off and control the shutter externally. An alarm signal output is also available. Signals and data can be exchanged with the PC via the RS-232C. This unit will prove ideal for production environments such as semi-automated or fully automated manufacturing lines.

**Great energy saving benefits**
Our 200 W lamps have high output equal to lamps in the 250 W class. Light sources using our 200 W lamps also have less power consumption than those using 250 W lamps. Power consumption is the lowest in its class (280 VA Typ.). This means using multiple UV light source units at production facilities will yield tremendous energy saving benefits.

**Power supply compatible in world-wide**
Internal power supply automatically switches to a 100 V or 200 V input. There is no problem when shifting the operating location in world-wide.

**Selectable positions of light guide port**
A front port type and a rear port type are available. The front port type allows lamp replacement from the operation panel side. This helps hold limits on equipment movement and installation location to a minimum. Select the light guide port position that best matches the component for bonding and its mounting position.

**Anybody can use it! One-touch replacement!**
Lamp is replaceable in less than 30 seconds! Just insert the lamp to replace it. No wiring to worry about. This is so easy you can do it with one hand.
Lamp is the cassette type with a preset optical axis so no troublesome optical alignment is needed after replacement.

**Clever layout allows a compact body**
Superb features are concentrated into a compact body. Weight has been reduced to a mere 6.4 kg. Area of installation can be reduced. Stacking the units allows saving even more space.

**Instantaneous power-outage response program**
Restores operation in about 10 seconds after power outages of a second or less. Conventional products take at least a few minutes to start up again after a power shutdown, so you can see this function drastically shrinks down-time due to power outages. This function is especially convenient in places where the supply of power is intermittent or unstable.

**CE marking compliance**
The LIGHTNINGCURE complies with CE marking requirements and can also be used in Europe.

**Applicable standards**
- EMS standard: IEC/EN 61326-1
- Safety standard: IEC/EN 61010-1
- RoHS directive: IEC/EN 63000

**Irradiance adjustable anywhere within 0 to 100 %!**
An electric diaphragm mechanism allows a digital display of the relative irradiance from 0 % to 100 % on the LCD panel. Unlike conventional analog scales, this means highly precise irradiation. Irradiance also can be controlled from an external device, so meeting various kinds of measurement conditions is now even easier.

**Irradiance vs. panel display**

Left: Rear light guide port type L9566, Right: Front light guide port type L9588
The LC8 yields an extremely strong spectral distribution in the UV range most effective for UV curing. UV irradiance distribution is dependent on the distance from the light guide output end to the target surface to be irradiated, as well as on the type of light guide used. The greater the distance from the light guide output end to the target surface, the more the maximum UV irradiance drops and the more the light beam expands (see below).

**UV irradiance: 4500 mW/cm² (-01A type, at 365 nm)**

Visible light and the infrared rays can be cut, and it can combine with the filter etc. that suppress the heat influence on the irradiation part to the minimum (see "ACCESSORY" section).

**Selectable wavelength**

The LC8 allows you to select the wavelength range you need. The lineup includes the model "-01A" with a center wavelength of 365 nm, "-02A" enhanced for 250 nm wavelength band, "-03" designed for the visible light range, "-04" of total reflection type, and "-06A" with a wide band around 365 nm. Select the light source that matches your applications. If you need special specifications, please feel free to consult us.

**High output**

Uses a highly stable mercury-xenon lamp developed expressly for analysis and measurement applications. There is almost no wear on the electrodes and no positional shift of the arc point. Absolutely no optical axis alignment is needed, even during lamp replacement or during lamp use.

**No optical axis alignment**

A single screwdriver is all you need to replace the filter via the upper filter insertion port. There is no need to open any cover as on conventional units, so you save even more replacement time.

**High efficiency optical system - no heat problems**

The LC8 combines a mercury-xenon lamp having high output UV line spectra with an elliptical reflector having reflectivity higher than 90 % in the UV range and a quartz light guide with excellent UV transmittance. The lamp can be operated in a horizontal position, so the optical system has less light loss compared to lamps operated in an upright position, allowing the UV light to input efficiently to the light guide. The elliptical reflector efficiently reflects only the UV light, and lets heat rays and visible light pass through to prevent adverse effects from heat on the irradiated point (-01A type and -02A type).

**Visible light spectral distribution (-03 and -04)**

Visible light and the infrared rays can be cut, and it can combine with the filter etc. that suppress the heat influence on the irradiation part to the minimum (see "ACCESSORY" section).

**UV irradiation distribution**

Typical values for this data were taken using the A10014-35-0110 quartz light guide with condenser lens E5147-04.

**Structure**

**Easy filter replacement**

Seven types of filters are provided for selecting the irradiation light. A single screwdriver is all you need to replace the filter via the upper filter insertion port. There is no need to open any cover as on conventional units, so you save even more replacement time.

**High efficiency optical system - no heat problems**

The LC8 combines a mercury-xenon lamp having high output UV line spectra with an elliptical reflector having reflectivity higher than 90 % in the UV range and a quartz light guide with excellent UV transmittance.

**No optical axis alignment**

Uses a highly stable mercury-xenon lamp developed expressly for analysis and measurement applications. There is almost no wear on the electrodes and no positional shift of the arc point. Absolutely no optical axis alignment is needed, even during lamp replacement or during lamp use.

**Electrode wear**

Before use

After 4000 hours of use

**Characters**

**Selecteable wavelength**

The LC8 allows you to select the wavelength range you need. The lineup includes the model "-01A" with a center wavelength of 365 nm, "-02A" enhanced for 250 nm wavelength band, "-03" designed for the visible light range, "-04" of total reflection type, and "-06A" with a wide band around 365 nm. Select the light source that matches your applications. If you need special specifications, please feel free to consult us.

**High output**

UVA irradiation: 4500 mW/cm² (-01A type, at 365 nm)

The LC8 yields an extremely strong spectral distribution in the UV range most effective for UV curing. UV irradiance distribution is dependent on the distance from the light guide output end to the target surface to be irradiated, as well as on the type of light guide used. The greater the distance from the light guide output end to the target surface, the more the maximum UV irradiance drops and the more the light beam expands (see below).

**Visible light spectral distribution (-03 and -04)**

Visible light and the infrared rays can be cut, and it can combine with the filter etc. that suppress the heat influence on the irradiation part to the minimum (see "ACCESSORY" section).

**UV irradiation distribution**

Typical values for this data were taken using the A10014-35-0110 quartz light guide with condenser lens E5147-04.
## Control

<table>
<thead>
<tr>
<th>Parameter</th>
<th>L9566-01A, L9588-01A</th>
<th>L9566-02A, L9588-02A</th>
<th>L9566-03, L9588-03</th>
<th>L9566-04, L9588-04</th>
<th>L9566-06A, L9588-06A</th>
</tr>
</thead>
<tbody>
<tr>
<td>Main power ON / OFF</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Lamp ON / OFF</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Shutter drive</td>
<td>Open / Close</td>
<td></td>
<td>Auto open / close by timer *1</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Auto shutter time setting</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Irradiation program (Memory Step™) setting</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Optical power adjustment (UP / DOWN)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Lamp ON indicator</td>
<td></td>
<td></td>
<td>(Signal output)</td>
<td></td>
<td>(Signal output)</td>
</tr>
<tr>
<td>Lamp stability indicator</td>
<td></td>
<td></td>
<td>(Signal output)</td>
<td></td>
<td>(Signal output)</td>
</tr>
<tr>
<td>Shutter open indicator</td>
<td></td>
<td></td>
<td>(Signal output)</td>
<td></td>
<td>(Signal output)</td>
</tr>
<tr>
<td>Lamp operation hour meter</td>
<td></td>
<td></td>
<td></td>
<td>(Signal output)</td>
<td></td>
</tr>
<tr>
<td>Overheat alarm</td>
<td></td>
<td></td>
<td>(Signal output)</td>
<td></td>
<td>(Signal output)</td>
</tr>
<tr>
<td>Lamp operation time alarm</td>
<td></td>
<td></td>
<td>(Signal output)</td>
<td></td>
<td>(Signal output)</td>
</tr>
<tr>
<td>Operating switch for power saving mode *2</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*1 Corresponds to "start / stop" of Memory Step™.
*2 The operating switch is inside

## SELECTION GUIDE

### SPECIFICATIONS

<table>
<thead>
<tr>
<th>Parameter</th>
<th>L9566-01A, L9588-01A</th>
<th>L9566-02A, L9588-02A</th>
<th>L9566-03, L9588-03</th>
<th>L9566-04, L9588-04</th>
<th>L9566-06A, L9588-06A</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lamp for maintenance</td>
<td>300 nm to 450 nm</td>
<td>240 nm to 400 nm</td>
<td>400 nm to 700 nm</td>
<td>300 nm to 800 nm</td>
<td>240 nm to 550 nm</td>
</tr>
<tr>
<td>Lamp for maintenance</td>
<td></td>
<td></td>
<td>4000 h (at 365 nm)</td>
<td>4000 h (at 365 nm)</td>
<td>2000 h (at 436 nm)</td>
</tr>
</tbody>
</table>

NOTE: 1 Major spectral distribution. Various optical filters (sold separately) can also be attached. Refer to the spectral distribution graph for details on the spectral distribution.
2 L10852 is 200 W super-quiet mercury-xenon lamp. L14753 is 150 W super-quiet xenon lamp (low ozone type).

### CONTROL

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Front panel control</th>
<th>Communication connector</th>
<th>External control terminal</th>
</tr>
</thead>
<tbody>
<tr>
<td>Main power ON / OFF</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Lamp ON / OFF</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Shutter drive</td>
<td>Open / Close</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Irradiation program (Memory Step™) setting</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Optical power adjustment (UP / DOWN)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Lamp ON indicator</td>
<td></td>
<td>(Signal output)</td>
<td>(Signal output)</td>
</tr>
<tr>
<td>Lamp stability indicator</td>
<td></td>
<td>(Signal output)</td>
<td>(Signal output)</td>
</tr>
<tr>
<td>Shutter open indicator</td>
<td></td>
<td>(Signal output)</td>
<td>(Signal output)</td>
</tr>
<tr>
<td>Lamp operation hour meter</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Overheat alarm</td>
<td></td>
<td>(Signal output)</td>
<td>(Signal output)</td>
</tr>
<tr>
<td>Lamp operation time alarm</td>
<td></td>
<td>(Signal output)</td>
<td>(Signal output)</td>
</tr>
<tr>
<td>Operating switch for power saving mode *2</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*1 Corresponds to "start / stop" of Memory Step™.
*2 The operating switch is inside

---

**NOTE:** E5147-04, by using the Hamamatsu C6080-365 UV power meter.
This equipment emits very strong ultraviolet light which is harmful to eyes and the skin. Also, as the light emanating from the light guide connection aperture contains infrared light in addition to ultraviolet light, its irradiation will cause heat generation. Be sure to observe following instructions for operation of the equipment.

- Never look directly into the light guide connection aperture or at the light emanating from the light guide. Strong ultraviolet light can cause visual disorder.
- Do not allow light to come into contact with skin. Contact with skin may cause sunburn-grade inflammation. Always wear safety glasses, gloves, and other appropriate protective gear when operating this equipment.
- Never allow light from the light guide to radiate onto flammable material.
- The unit includes an interlock that prevents the lamp from lighting while the top cover is open. Never attempt to override the interlock function by manually depressing the switch, as this may result in uncontrolled release of dangerous ultraviolet light.

- **High-Voltage trigger**
  - The mercury-xenon lamp employed started by a high-voltage (30 kV) pulse applied at the lamp electrodes. As protection against accidental electrical shock hazard, the design includes an interlock switch that disables lamp operation while the top cover is open. Never attempt to turn on the lamp by blocking the sensor window of the interlock switch.

- **Lamp Replacement**
  - The inside of the lamp housing becomes extremely hot during lamp operation. Before replacing the lamp, switch it off and run the cooling fan for at least 15 minutes.
  - Always exercise due caution when handling or replacing a lamp. A lamp contains high-pressure gas [approximately 1 MPa (10 atmospheres) at room temperature, approximately 4 MPa (40 atmospheres) during operation] and may burst if dropped or otherwise impacted.

- **Inhibition of Removal and Modification**
  - Do not remove the cover unless absolutely necessary and never touch any of the screws inside the unit. As the internal components of this unit have been precisely adjusted, disassembling or modifying the equipment can cause problems with the unit, fire and electrical shock.

---

**DISPOSAL OF LAMPS**

Lamps are filled with high pressure (approx. 1 MPa at room temperature) xenon gas (xenon gas and mercury in mercury-xenon lamps). When disposing of the used lamp, take appropriate measures in compliance with applicable regulations regarding waste disposal and correctly dispose of it yourself, or entrust disposal to a licensed industrial waste disposal company. In any case, be sure to comply with the regulations in your country, state, region or province to ensure the used lamp is disposed of legally and correctly.

---

**WARNING**

This device is guaranteed for one year after delivery date from us. The warranty extends only to replacement of the products. The warranty does not cover damage due to misuse or natural calamity.
Various light guides using a core material with high UV transmittance are available ranging from the single type up to a 6-furcated type. Select the desired light guide that suits your application.

**TYPE NO. GUIDE**

<table>
<thead>
<tr>
<th>A: Core material</th>
</tr>
</thead>
<tbody>
<tr>
<td>B: Output diameter</td>
</tr>
<tr>
<td>C: Furcated</td>
</tr>
<tr>
<td>D: Length</td>
</tr>
</tbody>
</table>

**A10014–35–0110**

- Type No.: A10014
- Core material: Synthetic silica
- Output diameter: 35 mm
- Furcated: Single
- Length: 1 m

**A10015 (suffix numbers are examples)**

<table>
<thead>
<tr>
<th>Suffix</th>
<th>Output diameter</th>
</tr>
</thead>
<tbody>
<tr>
<td>01</td>
<td>3.5 mm</td>
</tr>
<tr>
<td>02</td>
<td>5 mm</td>
</tr>
<tr>
<td>03</td>
<td>7 mm</td>
</tr>
</tbody>
</table>

**IRRADIANCE DISTRIBUTION <Typ.>**

- Relative irradiance: 100 % is equal to 3500 mW/cm², the irradiance at the distance of 10 mm from the output end of the A10014-50-0110 (without condenser lens).
- Z: Distance from output end

**A10014-35-0110 (at 365 nm)**

- Maximum irradiance for furcated fiber:
  - Single (-0110): 65 %
  - 2 furcated (-0210): 60 %
  - 3 furcated (-0310): 50 %

**A10014-50-0110 (at 365 nm)**

- Maximum irradiance for furcated fiber:
  - 45 %

**A10014-70-0110 (at 365 nm)**

- Maximum irradiance for furcated fiber:
  - 35 %

**MAXIMUM IRRADIANCE FOR FURCATED FIBER**

**A10014-35 SERIES**

<table>
<thead>
<tr>
<th>Type</th>
<th>Single (-0110)</th>
<th>2 furcated (-0210)</th>
<th>3 furcated (-0310)</th>
<th>4 furcated (-0410)</th>
<th>5 furcated (-0510)</th>
<th>6 furcated (-0610)</th>
</tr>
</thead>
<tbody>
<tr>
<td>100 %</td>
<td>60 %</td>
<td>50 %</td>
<td>45 %</td>
<td>40 %</td>
<td>35 %</td>
<td></td>
</tr>
</tbody>
</table>

**A10014-50 SERIES**

<table>
<thead>
<tr>
<th>Type</th>
<th>Single (-0110)</th>
<th>2 furcated (-0210)</th>
</tr>
</thead>
<tbody>
<tr>
<td>100 %</td>
<td>75 %</td>
<td>60 %</td>
</tr>
</tbody>
</table>

**DIMENSIONAL OUTLINE OF OUTPUT END** (UNIT: mm)

- Z: Distance from output end

- Relative irradiance: 100 % is equal to 436 nm at the distance of 10 mm from the output end of the A10014-50-0110 (without condenser lens).
Hamamatsu also provides a special lens that uniformly illuminates an entire surface.

We offer a choice of lenses for uniformly irradiating an entire target area. We provide a uniform illumination lens that attaches to the tip of the light guide, and a direct beam uniform illumination unit that attaches directly to the body of the spot light source.

This direct beam uniform illumination unit allows uniform irradiation onto the target surface area with irradiance variations within about 5%. Two different lens types are available according to the size of the irradiation surface area.

Efficiently emits light at wavelengths longer than 300 nm.
**IRRADIANCE DISTRIBUTION <Typ.>**

- Relative irradiance: 100 % is equal to 3500 mW/cm², the irradiance at the distance of 10 mm from the output end of the A10014-50-0110 (without condenser lens).

---

**SHORT FOCAL POINT CONDENSER LENS**

- **E5147-11** (Output diameter: φ5 mm)
- **E5147-12** (Output diameter: φ3.5 mm)

**RIGHT-ANGLE ILLUMINATIONS LENS**

- **E5147-07** (Output diameter: φ5 mm)
- **E5147-08** (Output diameter: φ3.5 mm)

---

**DIRECT BEAM UNIFORM ILLUMINATION UNIT**

- E10052
- E10052-01

---

**UNIFORM ILLUMINATION LENS**

- E5147-06

---

**DISTANCE FROM OUTPUT END**

- 10
- 20
- 30
- 40
- 50
- 60
- 70
- 80
- 90
- 100
- 200
- 300
- 400

**ILLUMINATED DIAMETER**

- 1.9
- 2.3
- 3.1
- 4.5
- 5.2
- 6.9
- 8.8
- 11.1
- 14.4

---

**DIAGONAL**

- 60 mm
- 50 mm
- 42 mm
- 30 mm
- 23 mm
- 23 mm
- 30 mm
- 40 mm
- 50 mm
- 60 mm

---

**RELATIVE IRRADIANCE**

- 15 %
- 22 %
- 26 %
- 32 %
- 36.7 %
- 42.5 %
- 48.3 %
- 54.1 %
- 60.0 %
- 65.8 %
- 71.6 %
- 77.4 %
- 83.2 %
- 89.0 %
- 94.6 %
- 100.0 %

---

**UNIT: mm**
Four types of filters are available, including UV-transmitting filters that efficiently transmit only the UV light needed for UV curing, as well as infrared cut filters and UV cut filters. Please select the filter that matches your applications. The types “-03” and “-05” are designed to minimize heat generation from the irradiated surface, making them effective when bonding components that are vulnerable to heat. These filters have a long service life. Almost no drop in the transmittance even after 10000 hours of operation.

### SPECIFICATIONS

<table>
<thead>
<tr>
<th>Type No.</th>
<th>Number of filter used</th>
<th>Transmittance wavelength (nm)</th>
<th>Transmittance (%)</th>
<th>Note</th>
</tr>
</thead>
<tbody>
<tr>
<td>A9616-03</td>
<td>1</td>
<td>280 to 400</td>
<td>Approx. 85</td>
<td>High UV transmittance, block heat</td>
</tr>
<tr>
<td>A9616-05</td>
<td>2</td>
<td>350 to 400</td>
<td>Approx. 80</td>
<td>Cuts off heat over a wide spectral range more efficiently than -03 type.</td>
</tr>
<tr>
<td>A9616-07</td>
<td>2</td>
<td>355 to 375</td>
<td>Approx. 50</td>
<td>Transmissive light of around 365 nm only</td>
</tr>
<tr>
<td>A9616-09</td>
<td>1</td>
<td>over 400</td>
<td>Approx. 95</td>
<td>Block UV light</td>
</tr>
</tbody>
</table>

### SPECTRAL DISTRIBUTION WITH A FILTER ATTACHED

- **A9616-03** (Light source: -01A)
- **A9616-05** (Light source: -01A)
- **A9616-07** (Light source: -01A)

**A9616-09** (Light source: -03)
Pushing on the E8263 foot switch opens and closes the shutter. These are highly effective when a worker is using 1 or more spot light sources. Different product series are available according to the cable length, connection method and operating method you need.

### E8263 SERIES

<table>
<thead>
<tr>
<th>Type No.</th>
<th>Cable length</th>
<th>Connection</th>
<th>Operation</th>
</tr>
</thead>
<tbody>
<tr>
<td>E8263-22</td>
<td>2 m</td>
<td>D-sub connector</td>
<td>Manual shutter</td>
</tr>
<tr>
<td>E8263-25</td>
<td>5 m</td>
<td>D-sub connector</td>
<td>Manual shutter</td>
</tr>
<tr>
<td>E8263-32</td>
<td>2 m</td>
<td>D-sub connector</td>
<td>Auto shutter</td>
</tr>
<tr>
<td>E8263-35</td>
<td>5 m</td>
<td>D-sub connector</td>
<td>Auto shutter</td>
</tr>
</tbody>
</table>

**NOTE:** The data shown above is typical values measured by Hamamatsu, just for your reference. Actual performance may greatly depend on the object to be illuminated and distance to it, and may differ from the above data.

---

**TEMPERATURE COMPARISON ON THE ILLUMINATED SURFACE**

- **SPOT LIGHT SOURCE:** L9566-01A
- **LIGHT GUIDE:** A10014-50-0110
- **OBJECT BEING IRRADIATED:** GLASS BOARD
- **DISTANCE FROM OUTPUT END:** 10 mm

**NOTE:** The data shown above is typical values measured by Hamamatsu, just for your reference. Actual performance may greatly depend on the object to be illuminated and distance to it, and may differ from the above data.

---

**PROTECTIVE GLASSES**

**A6905-01**

The A6905-01 protective glasses are eyewear for protection against powerful UV radiation. When working with UV radiation, always wear protective glasses or eyewear for eye protection.
The C6080 series is a UV power meter designed to measure irradiance. It is easy to carry and operate, and so can be used anywhere and anytime. It also exhibits little degradation in UV sensitivity, allowing stable measurements with high repeatability.

<table>
<thead>
<tr>
<th>Type No.</th>
<th>Effective area (mm)</th>
<th>Calibrated wavelength (nm)</th>
<th>Measurement range (mW/cm²)</th>
</tr>
</thead>
<tbody>
<tr>
<td>C6080-02</td>
<td>Φ6</td>
<td>248</td>
<td>1 to 1999</td>
</tr>
<tr>
<td>C6080-365</td>
<td>Φ1</td>
<td>365</td>
<td>10 to 19990</td>
</tr>
<tr>
<td>C6080-365-03</td>
<td>Φ1</td>
<td>365</td>
<td>1 to 1999</td>
</tr>
<tr>
<td>C6080-385</td>
<td>Φ1</td>
<td>385</td>
<td>10 to 19990</td>
</tr>
<tr>
<td>C6080-04</td>
<td>Φ1</td>
<td>436</td>
<td>1 to 1999</td>
</tr>
</tbody>
</table>

The H12684 series and C12144 are designed to function as a power meter that measures irradiance and integrated power. The H12684 series sensor head exhibits little degradation in UV sensitivity, allowing stable measurements with high repeatability.

<table>
<thead>
<tr>
<th>Sensor head</th>
<th>Controller</th>
<th>Effective area (mm)</th>
<th>Calibrated wavelength (nm)</th>
<th>Measurement range</th>
</tr>
</thead>
<tbody>
<tr>
<td>H12684-365</td>
<td>C12144</td>
<td>Φ1</td>
<td>365</td>
<td>Irradiance: 0.1 mW/cm² to 100 W/cm²</td>
</tr>
<tr>
<td>H12684-385</td>
<td>Φ1</td>
<td>385</td>
<td>Integrated power: 0.1 mJ/cm² to 9999 J/cm²</td>
<td></td>
</tr>
<tr>
<td>H12684-395</td>
<td>Φ1</td>
<td>395</td>
<td></td>
<td></td>
</tr>
<tr>
<td>H12684-405</td>
<td>Φ1</td>
<td>405</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

The LC-L1V5 is a compact, lightweight, palm-top size UV-LED spot light source with independently controllable 4 heads. The LC-L1V5 can be installed either vertically or horizontally even in a small space, allowing flexible layout in any place. Our unique feedback function enables the LC-L1V5 to achieve constant light output with variations held within ±5% even immediately after it starts lighting.

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UV POWER METER

UV INTENSITY INTEGRABLE POWER METER

H12684 series, C12144

UV-LED SPOT LIGHT SOURCE LIGHTNINGCURE® LC-L1V5

The LC-L1V5 is a compact, lightweight, palm-top size UV-LED spot light source with independently controllable 4 heads. The LC-L1V5 can be installed either vertically or horizontally even in a small space, allowing flexible layout in any place. Our unique feedback function enables the LC-L1V5 to achieve constant light output with variations held within ±5% even immediately after it starts lighting.

LINEAR IRRADIATION TYPE UV-LED UNIT LIGHTNINGCURE® LC-L5G

This is a linear irradiation type UV-LED light source that achieves high output, compactness and light weight by adopting Hamamatsu’s original air-cooling method.

The high output makes it possible to support high-speed transportation. Hamamatsu offers a wide range of products to meet customers’ requirements.

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