"Original easy-to-use design" – How about giving it a try?

**APPLICATIONS**
- UV adhesive curing
- High output UV irradiation

**FEATURES**
- Compact
- High stability and high output
- Low power consumption
- Low cost
**Features**

**Compact body easily installs into narrow confined spaces**

By cutting wasted space to an absolute minimum, we came up with a unit that drives 4 heads but is small enough to fit in the palm of your hand! Unit can also be freely placed standing or horizontal in just a tiny space, so it needs no special layout!

*Unit space volume cut by 90%*

Compared with our prior model LC-L1

**Huge reduction in power consumption**

The LC-L1V3 emits high intensity UV beams yet now consumes only 25% the power of UV-LED light sources made by other companies. These energy savings drastically cut your costs and place a smaller load on the environment. The light source also emits little heat, so less power is needed for air conditioning during production.

*Power consumption*

<table>
<thead>
<tr>
<th></th>
<th>Other company's UV-LED light sources</th>
<th>TLSZB0081EA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power consumption (Max.)</td>
<td>100 W</td>
<td>25 W</td>
</tr>
</tbody>
</table>

* When driving 4 heads.

**Further increase in light output stability**

Our unique feedback function minimizes drift during initial light emission period and constantly maintains fluctuations in light output within 5% right after light emission starts. Ideal for applications requiring both high accuracy and high quality.

**Prevents operator errors for higher quality and better safety**

The LC-L1V3 now has a key locking function designed to lower the risk of faulty entries such as by mistakenly coming in contact with the buttons. This also helps improve operator safety.

**Boost in quality by optimizing irradiation conditions**

You can program the irradiance and time you need in 3 easy steps. Storing the programs in the unit allows you to irradiate each object under optimal conditions. This will improve product yield of components that require high bonding precision.

The irradiation conditions can be easily changed when processing multiple objects or shifting to another production line, etc.

**PC communication control improves work efficiency**

PC communication allows batch control with other devices. Various tasks in production process can be easily controlled by software command.

**SPECIFICATIONS**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>365 nm</th>
<th>385 nm</th>
<th>Unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maximum UV irradiance</td>
<td>14000</td>
<td>15000</td>
<td>mW/cm²</td>
</tr>
<tr>
<td>Peak wavelength</td>
<td>365 ± 5</td>
<td>385 ± 5</td>
<td>nm</td>
</tr>
<tr>
<td>LED design life</td>
<td>20000</td>
<td></td>
<td>h</td>
</tr>
<tr>
<td>Input voltage (DC)</td>
<td>9 ± 0.5</td>
<td></td>
<td>V</td>
</tr>
<tr>
<td>Power consumption (Max.)</td>
<td>25</td>
<td></td>
<td>W</td>
</tr>
<tr>
<td>Cooling method</td>
<td>Air cooling without fan</td>
<td>—</td>
<td></td>
</tr>
<tr>
<td>Operating temperature range</td>
<td>+5 to +35</td>
<td></td>
<td>°C</td>
</tr>
<tr>
<td>Storage temperature range</td>
<td>-10 to +50</td>
<td></td>
<td>°C</td>
</tr>
<tr>
<td>Operating humidity range</td>
<td>20 % to 80 %</td>
<td>(no condensation)</td>
<td>—</td>
</tr>
<tr>
<td>Storage humidity range</td>
<td>Below 80 %</td>
<td>(no condensation)</td>
<td>—</td>
</tr>
<tr>
<td>Control method *</td>
<td>Front panel control / external control / communication control</td>
<td>—</td>
<td></td>
</tr>
<tr>
<td>Applicable standards</td>
<td>IEC61010-1: 2010</td>
<td></td>
<td></td>
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<tr>
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<td>IEC62471: 2006 Risk Group3</td>
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<tr>
<td></td>
<td>IEC61326-1: 2005 Group1 ClassA</td>
<td></td>
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</tr>
<tr>
<td>Warranty period          ③</td>
<td>1 year</td>
<td></td>
<td>—</td>
</tr>
</tbody>
</table>

① With an LED head unit L11921-□□□□□ connected, UV intensity in the emission center was measured a point 10 mm away from the end of the output lens.
② When driving 4 heads
③ The warranty period is 1 year from the date of shipment.

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* Control description
  - **Front panel control**
    - Manual / programmed irradiation
    - Irradiation program setting (light intensity, time, steps)
    - Integration time check and reset
    - Error signal, change to service life warning time
  - **External control**
    - Manual / programmed irradiation
    - Error / “irradiation in progress” signal
  - **Communication control**
    - Manual / programmed irradiation
    - Irradiation program setting (light intensity, time, steps)
    - Integration time check and reset
    - Error signal
### Lineup

#### Light emission spectrum

![Graph showing light emission spectrum with peaks at 365 nm and 385 nm.]

#### Irradiation pattern variations

**Standard type**

- **Irradiation area: 3 mm**
- **Irradiation area: 6 mm**
- **Irradiation area: 8 mm**
- **Irradiation area: 12 mm**

**Right-angle type**

- **Mid focal point type**
- **Long focal point type**

**Linear beam type**

- **Wide range type**
- **Narrow range type**

**Collimator type**

Maintains high irradiance unaffected by the irradiation distance, so it provides stable UV irradiation with no need for high precision jigs or fixtures.

*See last page for model No.*
One close connector is supplied with each controller. Use this connector when driving one head or three heads or when controlling two heads independently.

LED controller C11924 series

- Without communication control
  No connector installed
- With communication control
  Control via USB

Type No. Communication control
C11924-01 N/A
C11924-01 Available
Control via USB
C11924-01 Available
Control via RS-232C

Type No. in " "
0: Please prepares adapters with AC DC 9 V, 25 W or more output (EIAJ plug) by yourself.
1: With AC adapter
Regional specifications
1: For Japan
2: For EU
3: For Thailand
4: For United Kingdom
5: For North America
6: For China

LED head unit L11921/L11922 series

- Standard type (without lens)
- Standard type (with lens)
- Mid focal point right-angle reflection lens
- Long focal point right-angle reflection lens

Type No. in " "
L11921-00
L11921-20
L11922-01
L11922-02
L11922-03
L11922-04
L11922-05

Type No. Communication control
L11922-00 Only
L11922-20 Available
Control via USB
L11922-20 Available
Control via RS-232C

Irradiation area (mm)
L11921-00: 365
L11922-00: 365
L11921-20: 365
L11922-20: 365

Mounting holder
2-M3, Depth: 6

This holder comes supplied with the unit, so always use it in order to improve heat dissipation efficiency.

Condenser lens E11923 series (sold separately)

- Narrow range type
- Wide range type
- Long focal point type
- Mid focal point type
- Collimator type

Type No. in " "
E11923-010
E11923-015
E11923-020

Type No. Communication control
C11924-01 Only
C11924-01 Available
Control via USB
C11924-01 Available
Control via RS-232C

Regional specifications
1: For Japan
2: For EU
3: For Thailand
4: For United Kingdom
5: For North America
6: For China