Waterproof Ring Lights
HLDR-IP Series

Waterproof Light Unit for the Routine Cleaning of Manufacturing Lines in the Food and Pharmaceutical Industries

Waterproof
IP67

High output
Condensing irradiation

Red
White
UV
Lineup

Applications
Adhesive application inspection
Printing inspection
Defect inspection
External inspection etc.
Waterproof Ring Lights HLDR-IP series

Features
- IP67 Compliance
- Uses an M12 connector
- Safe to Use when Washing Lines
- Ensures brightness with condensing irradiation
- Lineup includes red, white and UV (365 nm)

IP67 Compliance

Waterproof and dustproof structure for use in harsh environments!

Optimal waterproof Light Unit for sites where the cleaning of manufacturing lines is essential, such as for food and pharmaceuticals. Eliminates the need to worry about exposing Light Unit to water when cleaning.

Safe to Use when Washing Manufacturing Lines

When washing manufacturing lines

- Food, pharmaceuticals, etc.

For manufacturing lines that use water

- Automotive parts, etc.
Condensing Irradiation for Brightness

HLDR-IP series features condensed, waterproof ring lights that ensures brightness with a condensing lens.

**Applications**
- Adhesive application inspection for food containers
- Defect inspection of metal parts
### Specifications

#### LED Light Unit

<table>
<thead>
<tr>
<th>Model</th>
<th>HLDR-IP67-100RD</th>
<th>HLDR-IP67-100SW</th>
<th>HLDR-IP67-100UV2-365</th>
</tr>
</thead>
<tbody>
<tr>
<td>LED color</td>
<td>Red</td>
<td>White</td>
<td>UV</td>
</tr>
<tr>
<td>Input voltage (max.)</td>
<td>DC24 V</td>
<td>24 V</td>
<td>24 V</td>
</tr>
<tr>
<td>Current consumption</td>
<td>18 W</td>
<td>18 W</td>
<td>18 W</td>
</tr>
<tr>
<td>Rated voltage</td>
<td>627 nm</td>
<td>6,500 K</td>
<td>365 nm</td>
</tr>
<tr>
<td>Connector</td>
<td>M12 (plug)</td>
<td>M12 (plug)</td>
<td>M12 (plug)</td>
</tr>
<tr>
<td>Weight (max.)</td>
<td>70 g</td>
<td>125 g</td>
<td>180 g</td>
</tr>
<tr>
<td>Power consumption</td>
<td>6,500 K</td>
<td>365 nm</td>
<td></td>
</tr>
<tr>
<td>LED Light Unit</td>
<td>HLDR-IP67-100RD</td>
<td>HLDR-IP67-100SW</td>
<td>HLDR-IP67-100UV2-365</td>
</tr>
</tbody>
</table>

#### Dedicated cable

<table>
<thead>
<tr>
<th>Model</th>
<th>FCB-1-M12</th>
<th>FCB-2-M12</th>
<th>FCB-3-M12</th>
<th>FCB-5-M12</th>
</tr>
</thead>
<tbody>
<tr>
<td>Direct number</td>
<td>3000940</td>
<td>3000941</td>
<td>3000942</td>
<td>3000943</td>
</tr>
<tr>
<td>Cable length</td>
<td>1 m</td>
<td>2 m</td>
<td>3 m</td>
<td>5 m</td>
</tr>
<tr>
<td>Weight (max.)</td>
<td>70 g</td>
<td>125 g</td>
<td>180 g</td>
<td>305 g</td>
</tr>
<tr>
<td>Connector</td>
<td>Light Unit side: M12 (socket), Control Unit side: SMR-03V-B (JST)</td>
<td>Light Unit side connector: Soft PBT</td>
<td>Cable: PVC</td>
<td>Control Unit side connector: Nylon</td>
</tr>
</tbody>
</table>

#### Control Unit compatibility

- Series name: PD3 series, P2D series, PSB series, BB series (excluding strobe types)
- ON/OFF control is possible via the strobe mode or ON/OFF mode of the PD3 series, and constant lighting Control Units (P2D series, BB series, etc.).

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### Dimensions (mm)

### Cautionary information regarding waterproofing

**CAUTION**

- After cleaning manufacturing lines, be sure to wipe away any moisture remaining on the lens.
- Imaging can be affected by moisture on the lens.
- Use water to wash away any cleaning agent adhered to this product.
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- Imaging can be affected by moisture on the lens.
- Use water to wash away any cleaning agent adhered to this product.

### Cautionary information regarding UV products

**CAUTION**

- Do not expose your eyes or skin to direct UV irradiation.
- Wear long sleeves and gloves to protect your skin from UV irradiation.
- Carefully inform all persons in the area around this product of the dangers of UV-LED.
- Use water to wash away any oils or chemicals adhered to this product.
- The Control Unit connectors (SM connectors) on dedicated cables are not waterproof.

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