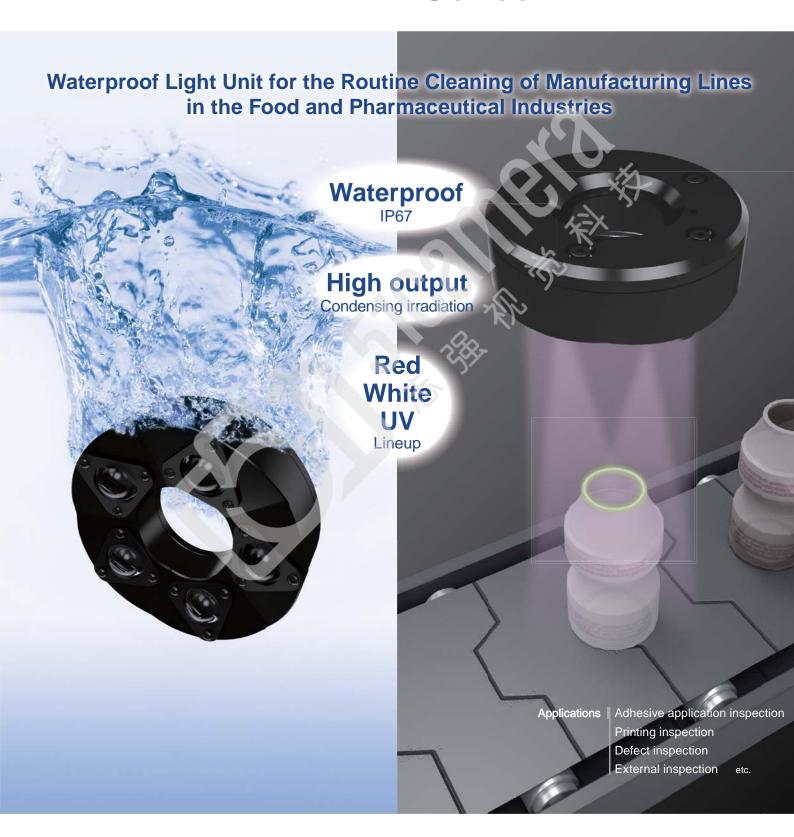




# Waterproof Ring Lights HLDR-IP Series



# 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.



■ Waterproof cable



Uses an M12 connector!

Connect this cable to the Light Unit to block water and dust.

1, 2, 3, and 5 m cable lengths are available.

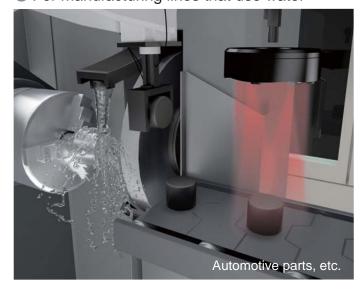


# Safe to Use when Washing Manufacturing Lines

When washing manufacturing lines



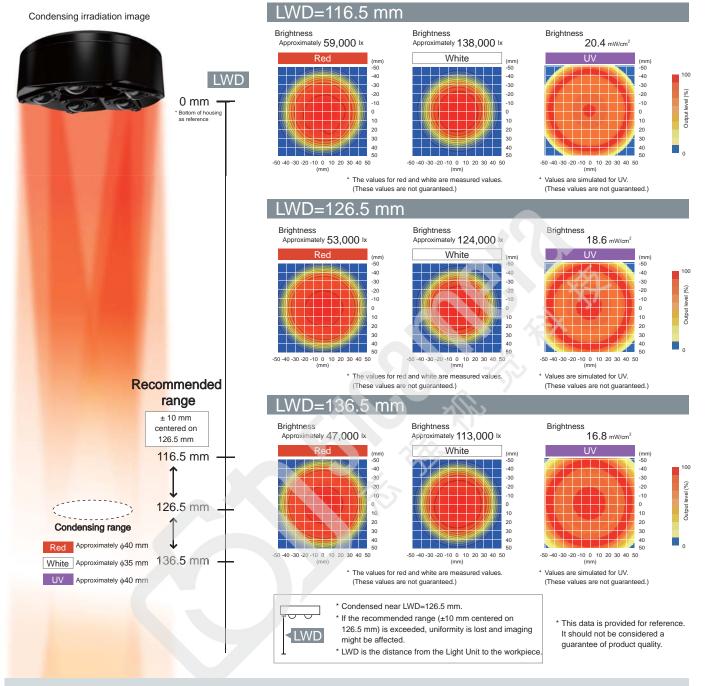
For manufacturing lines that use water





## Condensing Irradiation for Brightness

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

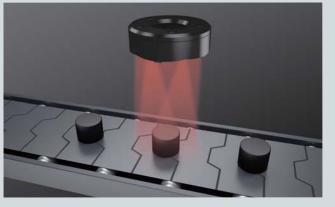


#### **Applications**

Adhesive application inspection for food containers



Defect inspection of metal parts



#### **Specifications**

#### ● LED Light Unit

Model	HLDR-IP67-100RD	HLDR-IP67-100SW	HLDR-IP67-100UV2-365		
Direct number	1006968	1006969	1006961		
LED color	Red	White	UV		
Input voltage (max.)	DC24 V				
Power consumption (max.)	18 W				
Peak wavelength / Correlated color temperature (typ.)	627 nm	6,500 K	365 nm		
Connector	M12 (plug)				
Polarity	1: (24 V+), 2: Not connected, 3: GND (-), 4: Not connected				
Cooling method	Natural cooling				
Operating environment	Temperature: 0 to 40°C, Humidity: 20 to 95% RH (with no condensation)				
Storage environment	Temperature: -20 to 60°C, Humidity: 20 to 85% RH (with no condensation)				
CE Marking	Safety standard: EN62471 compliant				
Environmental regulations	RoHS compliance				
Protective structure	IP67 (JIS C 0920)				
Case material	Body: Aluminum alloy (black anodized) Screws: SUS Washers: SUS, Elastomer (TPE) Connectors: PA resin Lens: Silicone				
Weight (max.)	420 g				
Light spectrum	8 100 100 100 100 100 100 100 100				

- \* This data is provided for reference. It should not be considered a guarantee of product quality.
- \* About direct numbers: You can easily access the target product information page simply by entering a 7-digit number in the direct number field on the CCS website (machine vision page).

#### Dedicated cable

Model	FCB-1-M12	FCB-2-M12	FCB-3-M12	FCB-5-M12	
Direct number	3000940	3000941	3000942	3000943	
Cable length	1 m	2 m	3 m	5 m	
Weight (max.)	70 g	125 g	180 g	305 g	
Connector	Light Unit side: M12 (socket), Control Unit side: SMR-03V-B (JST)				
Outer diameter	φ6 mm				
Case material	Light Unit side connector: Soft PBT Cable: PVC Control Unit side connector: Nylon				

"IP67" indicates the level of protection against foreign material entering electrical instruments

The 1st numeral "6" indicates the following level of protection:

No dust inside the instrument. (dustproof)

The 2nd numeral "7" indicates the following level of protection:

- · No damage when submerged in water at the rated pressure for the rated time. (watertight type)
- Can be submerged in water to a depth of 1 m (for instruments with a height of less than 850 mm) for 30 minutes.

#### Control Unit compatibility

Please choose from the standard Control Units offered by CCS.

See the relevant catalogs or our website for details

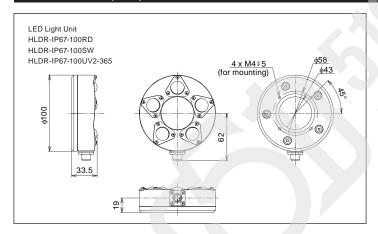
PD3 series, PD2 series, PSB series, BB series (excluding strobe types)

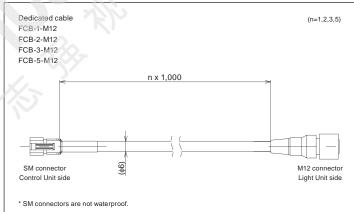


\* Cannot be used in combination with Strobe Control Units (PTU2-3024, BB-V24S30-M, BB-V24S30-S).

ON/OFF control is possible via the strobe mode or ON/OFF mode of the PD3 series, and constant lighting Control Units (PD2 series, BB series, etc.).

#### 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

- 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.

Cautionary information regarding UV products

#### CAUTION

- 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 UV blocking eye of UV-LED.



at irradiated parts (light-emitting parts). ● Do not turn on UV-LED irradiation parts (light-emitting parts) if they are facing someone's eyes

Do not expose your eyes or skin to direct UV irradiation.
 When using UV Light Unit, be sure to wear UV blocking eyewear and avoid looking

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#### CAUTION

• To use this product safely and correctly, be sure to read the Instruction Guide before use. • The design of this product is subject to change without notification.



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