

Handling Precautions for LED Lights

Thank you for purchasing a CCS product. To ensure proper use of the product, please read this document before use and keep it for your future reference.

1 Introduction

This product is an LED light used for machine vision and industrial inspection. Do not use the product for other applications, and be sure to follow the instructions below.

Do not use the product in the following situations.

- Under conditions or in an environment not described in this document.
- In nuclear energy control systems, railroad systems, aviation systems, vehicles, combustion equipment, medical equipment, amusement machines, or safety equipment.
- In applications involving serious risk to life or property, particularly applications demanding a high level of safety.

Please install the product to locations with following conditions.

Incorrect installation location may cause product failure.

- In a flat and stable location with minimal vibration.
- Well-ventilated places with minimal dust.
- Places that are not subject to sudden temperature changes.
- Places free from any water, oil, liquid, chemical, or steam.
- Places free from corrosive or combustible gas.
- Places away from water faucets, boilers, humidifiers, air conditioners, heaters, or stoves.

Use the product under the following conditions.



Using the product under any other conditions may damage the product.

- Operating temperature: 0 to 40°C, Humidity: 20 to 85%RH (with no condensation)
- Storage temperature: -20 to 60°C, Humidity: 20 to 85%RH (with no condensation)






2 Important Information for Equipment Safety - Read Before Use -










This product has been designed with full consideration of safety. However, incorrect usage of the product may result in fire, electric shock, or other serious damages. Please ensure to follow the conditions below.








The following symbols are used in this document to indicate and classify the relative importance of warnings and cautions.

 Warning	Indicates that incorrect usage may result in serious injury or death.	 Caution	Indicates that incorrect usage may result in injury or property damage.
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The following symbols in the document indicate and classify the precautions.

 PROHIBITED  DISASSEMBLY PROHIBITED  DO NOT TOUCH WITH WET HANDS  DO NOT SUBJECT TO MOISTURE These symbols indicate prohibited actions.	 MANDATORY ACTIONS This symbol indicates required actions.
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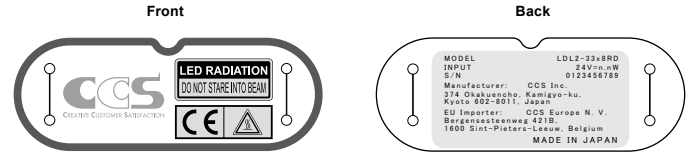
 Warning	
Do not disassemble or modify the product. Doing so may result in fire or electric shock.	 LED light radiation may cause corneal or retinal abnormalities if you look directly at the light. To prevent harmful light exposure, never look directly at the LED light. 
Do not touch the product with wet hands. Doing so may result in electric shock.	 This product generates high temperatures. Do not touch the product while it is turned on or immediately after it is turned off, or burning may result. Provide cooling with a fan or other ventilation if the product is to be used in a closed space. 
Make sure that the product is free of moisture or any liquid. Exposure to water may result in fire, electric shock, or product failure.	 If abnormal condition occurs such as fuming, heat, smell, noise, or so on, stop using the product immediately, and turn the power off. A fire or electric shock may result if the product is kept used. 
Connect or disconnect the light cable only after turning off the power supply for the LED light. Failure to do so may result in circuit damage, fire caused by a minute spark, or electric shock.	 

 Caution	
Do not use user-made cables. Doing so may cause product failure. Use the CCS extension cable if it is necessary to extend the distance between the light and the power supply.	 Use a power supply that is suitable for the product ratings. Using an incorrect power supply can cause product failure. 
Be careful of static electricity. Damage to the LED light may occur, if a person charged with static electricity touches it. Keep the product away from all items charged with static electricity.	 Make sure that the length of the extension cable is less than 5 m. If the extension cable is longer than 5 m, the voltage applied to both ends of the LED light will drop due to the DC resistance of the cable. The rated voltage will not be attained for 100% radiant ability, and the radiant quantity will drop as a result. 
Do not drop the product or subject it to impact. Doing so may cause the product to malfunction.	 

3 Confirming Product Information

The following tag is attached to the cable on the LED Light. The color of the label indicates the luminescence color of the Light. The back of the tag there is a name label that gives the model number, power consumption, and serial number. Be sure to check the contents before using the product and handle the label with care. If the label is missing or damaged and the contents cannot be checked, please contact CCS Inc.

Tag Example



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