

**ILUMINADOR LED DE LUZ FRÍA
LED COLD LIGHT ILLUMINATOR
ILLUMINATEUR LED À LUMIÈRE FROIDE**

REF. / CODE / RÉF HDK001



Con el fin de garantizar la seguridad, maximizar el rendimiento del equipo y permitirle familiarizarse plenamente con el uso de este iluminador de luz fría, le recomendamos que lea detenidamente este manual antes de utilizarlo.

In order to ensure safety, maximize the performance of the device, and enable you to be fully familiar with the use of this cold light illuminator, we recommend that you read this manual carefully before operating the device.

Afin de garantir la sécurité, de maximiser les performances de l'équipement et de vous permettre de vous familiariser avec l'utilisation de cet illuminateur à lumière froide, nous vous recommandons de lire attentivement ce manuel avant de l'utiliser.

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PRECAUTIONS

In order to ensure the integrity of the product and the safety of use, please observe the following precautions.

- Ensure that the wiring is correct and secure to avoid short circuit damage to parts and trigger fire accidents.
- Do not block the ventilation passageway, which is located behind the light source. The distance between the vent and the wall is required to be above 15 cm.
- Please check whether the input power supply meets the product requirements.
- Some parts will get hot during the operation. To avoid the possibility of injury, replace the optical fiber, adapter, or other parts 30 seconds after the light source is turned off.
- Do not look directly at the light hole during use.
- Live wiring is prohibited. Check to confirm that the wiring is correct and that there is no short circuit.
- If any failure occurs, please do not repair it privately. If you have any questions, please contact the supplier.

AFTER-SALE SERVICE

If malfunctions occur during normal use according to operating instructions, within 2 years from the purchase, AUXILAB will provide maintenance or replacement service free of charge.

If the product is damaged during the warranty period due to non-compliance with the following terms and conditions, the supplier shall not be responsible for any problems or defects arising therefrom.

- Damage caused by maloperation, due to failure to follow the operating instructions.
- Damage caused using inappropriate power supply and excessive voltage.
- Damage caused by unauthorized removal, repair, modification of circuits, incorrect connections and unauthorized replacement of chips.
- Damage caused by transportation, shock, falling to the ground and water after purchase.
- Damage caused by improper maintenance when stored in a high-temperature and humid environment and near harmful chemicals.

I. INTRODUCTION

Zuzi LED cold light illuminator is a new type of product developed according to the needs of the international market, which is widely used in the fields of electronic industry, medical treatment, teaching and scientific research, public security criminal investigation, agricultural plant protection, cultural relic protection, etc. The visible spectrum has high color temperature and no thermal effect because the reliable infrared filtering technology has been adopted.

This product adopts high-quality electrical parts with strict quality certification. Through inspection before assembly and strict quality inspection and fatigue test of each product before leaving the factory, it is fully ensured the safety and reliability of the whole equipment.

It has a strong and durable structure, beautiful appearance, no noise, flexible use, convenient operation, uniform light spot and long service life of LED lamp beads.

Compared with halogen lamp and metal halide lamp, the LED cold light illuminator has advantages of energy saving, environmental protection, low maintenance cost, long life, high brightness, stable color temperature (sunlight), small size and light weight.

This LED cold light illuminator adopts unique optical technology, coupled with fiber bundle, fan forced cooling system and built-in temperature sensor control.

SPECIFICATIONS

Reference	HDK001
Power Supply	85-265VAC, 50/60Hz
Regulation Mode	By means of potentiometer
Cooling Method	Forced air
Working Environment	-20 °C ~ +40 °C
Storage Environment	-20 °C ~ +40 °C
Power Consumption	20W
Average Illumination	90000Lx (equivalent to 150W halogen lamp)
LED Service Life	30000 hours (max.)
Color Temperature	6000K (max.)
Heat Dissipation Method	Enclosure + silent fan
Waterproof and Dustproof Rating	IP20
Host Net Weight	2.4kg
Host Size	245 (L) x 101 (W) x 157 (H) mm

Notes:

1. Typical color temperature range is 5000K - 6000K.
2. The LED service life is related to the ambient temperature, and 25000 hours is the average life tested under + 25°C working environment.
3. The diameter of the fiber bundle is 8mm, the length of the fiber is 1m, the numerical aperture of the fiber is 0.6, the measured value from the 50mm position of the end face of the fiber outlet.

II. FEATURES

- High color temperature, small size, no noise, low energy consumption (energy saving up to more than 50%).
- The hollow phenomenon of the beam is eliminated.
- The cooling system with fan ensures that the LED dissipates heat, with an average life of 25000 hours.
- The output spot is small, which is suitable for optical fibers with a diameter of 3mm ~ 10mm. High optical coupling efficiency.
- Perfect overheat protection function.
- No IR and UV radiation.

III. INSTRUCTIONS

- The power outlet on the back of the cold light illuminator is connected to the power cable.
- The power cable is connected to the AC socket. The AC socket must be grounded. Use only the power cable that comes with the device (otherwise it will damage the product, it will not be within the scope of the warranty, and it will bring unsafe operation).
- Ventilation requirements: do not block the ventilation passage, which is located behind the cold light illuminator.
- Aim the optical fiber at the illuminator socket, push it and rotate the locking screw clockwise.
- To turn on, press the switch to the ON position, the cold light illuminator is on, and the green indicator light is on; press the switch to the OFF position to turn off the device.
- To regulate the light intensity, turn the knob of the front panel to change the brightness of the illuminator; clockwise to increase the brightness and counterclockwise to reduce it.
- Cleaning instructions: use soft cloth and detergent to clean the housing of the cold light illuminator. Do not use detergents containing chlorine. The dust in the air will stick to the ventilation passage and can be cleaned with an oil-free spray.

IV. DIAGRAM

