

Use of Black Light

- ❶ Make sure that the power supply voltage and frequency match those indicated on the black light.
- ❷ Be sure to ground (earth) the ballast.
- ❸ Do not open the lid of the projector while the lamp is on.
- ❹ When replacing or cleaning the lamp, be sure to turn off the power and allow it to cool down.
- ❺ Do not allow metal fragments, dust, water, etc. to enter the ballast case.
- ❻ Caution while the lamp is on

Do not look directly at the lamp when it is lit.
 Do not touch the filter as it is hot.
 Do not touch the filter as it is hot.
 Do not remove the filter or use it in a broken state.

❼ Cautions on Location of Use

Avoid using the product in the following places.

- High ambient temperatures (above 40°C) and low ambient temperatures (below 4°C)
- Places with high humidity or where it is exposed to water.
- Places subject to vibration or shock
- Places with flammable or corrosive gases
- Near magnetizers or strong magnetic fields.

Measuring UV intensity of black light and safety

Our black light is a UV light for NDT that transmits long-wavelength UV light mainly around 365nm. The intensity of ultraviolet light must be measured correctly in accordance with ISO and JIS. Please use the DLM-1000 UV intensity meter for measurement. Note that even long-wavelength ultraviolet rays in the vicinity of 365 nm can cause eye fatigue if visual observation is prolonged. These goggles prevent eye fatigue and make it easier to see the fluorescent indicator pattern. (They also eliminate the "blue haze" or flicker that UV rays can cause in the eye.) For safety reasons, please wear long sleeves, our recommended safety goggles, safety glasses, or a face shield.

 Safety Precautions

- This product is not a household or office product. This is an industrial product for engineers with expertise.
- Please read the "Instruction Manual" carefully before using this product.
- This product requires periodic inspection. Please contact us directly or through the distributor where you purchased the product. Please contact us directly or via the distributor from whom you purchased the product.

Non destructive inspection materials

BLACK-LIGHT

Precision and durability made in Japan.

Explore lineups with advanced UV tech for unbeatable reliability



| | | |
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<https://www.eishinkagaku.co.jp/>

All of our UV-LED blacklights comply with the JIS Z 2323 standard and are specialized for the performance required for inspection. In addition to power saving and long life, the convenience of portability is improved and the amount of heating value is reduced. Choose the stand that best suits your needs. Each black light is equipped with a countermeasure to cut out harmful visible light during observation, and the LCE model can be used in the demanding aircraft industry.

LED BLACK LIGHT

ZB-365J type



Compact and lightweight (approx. 180g), cordless type using batteries. You can use the dimmer function for your preferred range and UV illumination. A "special protective filter" that cuts out unnecessary visible light during observation is standard.

| Type | ZB-365J |
|----------------------|--|
| Power consumption | - |
| Dimensions | Φ38(head) φ25(grip)×147(mm) |
| Weight | 0.18kg |
| UV intensity | ~19,990μw/cm ² at 381mm/15 inch |
| Power source voltage | (Li-ion battery) |
| Power current | - |
| Power cable | N/A |
| Compliance standards | JIS Z 2323 |

S-60LC type



Model S-60 LC is a direct plug-in type with an integrated power supply. The UV LED/white (visible light) lamp can be turned on and off with a switch on the hand.

| Type | S-60LC |
|----------------------|--|
| power consumption | 20W |
| Dimensions | φ94×150×245mm |
| Weight | 0.6kg |
| UV intensity | 3,000μw/cm ² at 381mm/15 inch |
| power source voltage | AC100V±10% 50/60Hz |
| power current | 0.2A |
| Power cable | 3.0m |
| Compliance standards | JIS Z 2323 |

S-65LC·LCE Type



Model S-65LC is a lightweight resin floodlight with two 100V service outlets in the storage power supply box. With (visible light) lamps can be turned on and off with a hand-held switch. The S-65LCE model conforms to ASTM E 3022 and RRES 90061, can be used for demanding aircraft inspection.

| Type | S-65LC/LCE |
|----------------------|--|
| Power Consumption | 20W |
| Dimensions | φ94×150×245mm Ballast: W340×D295×H152mm |
| Weight | 0.5kg (ballast: 3.0kg) |
| UV intensity | 4,000μw/cm ² , LCE: 3,500μw/cm ² at 381mm/15 inch |
| Power source voltage | AC100V±10% 50/60Hz |
| Power current | 0.2A |
| Power cable | Primary 2.5m / Secondary 3m |
| Compliance standards | JIS Z 2323, ASTM E3022(LCE) RRES 90061(LCE) |

Stationary LED Black Light

L-500LC·LCE TYPE



This black light uses UV-LED and is used for hanging. Useful to reduce electricity and operating cost. Multiple units can be connected for use. Equipped with "V-cut glass" as standard equipment, which cuts off unnecessary visible light during observation. Model "L-500LCE" complying with ASTM E 3022 and RRES90061 is also available.

| Type | L-500LC/LCE |
|----------------------|--|
| Power consumption | 40W (max) |
| Dimensions | 220×220×160(mm) |
| Weight | 6kg |
| UV intensity | 4,200μw/cm ² at 600mm |
| Power source voltage | AC100V±10% 50/60Hz |
| Power current | 0.4A |
| Power cable | 3.0m |
| Compliance standards | JIS Z 2323, ASTM E3022(LCE) RRES 90061(LCE) |

LV Series



Black light with output adjustment function using high output UV-LED. Patented light distribution technology eliminates uneven irradiation, and the design ensures that there is no reduction in UV illumination intensity from one light fixture to another, even during continuous lighting. Despite being fanless, it has high heat dissipation performance, which is essential for LED lights, and eliminates causes of failure and short life of LEDs at a high level. Depending on the application, 6 UV-LEDs "LV-6", 9 UV-LEDs "LV-9", and 18 UV-LEDs "LV-18" are available, which are very suitable for continuous lighting in steel works, etc.

| Type | LV-6 | LV-9 | LV-18 |
|----------------------|---------------------------------------|------------------------------------|------------------|
| Power Consumption | 170W(100V) | | |
| Dimensions | 1080×171×188(mm) | 630×171×188(mm) | 1260×171×188(mm) |
| Weight | 7.9kg | 8.2kg | 14.3kg |
| UV Intensity | 2,300μw/cm ² (at 600mm) | 6,500μw/cm ² (at 600mm) | |
| Power Source Voltage | AC100~240V (50Hz/60Hz) | | |
| Power current | 1.2A | 1.7A | 3.1A |
| Power cable | Primary 5m / Secondary 3m | | |
| Compliance standards | JIS Z 2323 | | |