

LED-UV Lamp User Manual

Thank you for purchasing the LED-UV lamp produced by our factory. Please read this manual carefully before use to ensure safe operation and long service life.

1. Basic Specifications

Light Source Type: UV-LED

LED Chip Model: 45mil-3W

Voltage Range: AC90V–AC260V, 50Hz

Cooling Method: Aluminum Heatsink + Fan Cooling

Recommended Irradiation Distance: 3–5 cm (Shorter distance = faster curing)

Operating Ambient Temperature: 5°C–42°C

Relative Humidity: $\leq 85\%$

2. Applications

This product is widely used for curing and processing on various materials including glass, plastic, metal, paper, wood, leather, LCD screens, PCBs, electronic components, etc.

Typical Uses:

UV shadowless glue, UV crystal epoxy, UV photosensitive resin, UV solder mask, UV ink screen printing, UV exposure, cyanotype printing, UV varnish curing.

Also used for:

Counterfeit detection, fluorescent inspection, fluorescent testing, stage and bar lighting decoration.

3. Product Advantages

Fan Cooling: Efficient active cooling extends LED service life.

High Intensity: Stable, uniform output with fast curing (only a few seconds).

Low Power Consumption: Only 20% energy use of traditional mercury lamps, with 10x luminous efficiency.

Low Heat Emission: Cold light source with no IR radiation; surface temperature rise $\leq 5^{\circ}\text{C}$ (vs. $60 - 90^{\circ}\text{C}$ for mercury lamps).

Instant On: Full UV output immediately, no warm-up needed.

Long Lifespan: $\geq 10,000$ hours, not affected by frequent on/off cycles.

Eco-Friendly: Mercury-free, ozone-free, safe and environmentally friendly alternative to traditional UV lamps.

4. Safety & Usage Precautions

This product uses UVA long-wave ultraviolet (safe range), but avoid prolonged exposure to eyes and skin. Wear UV-protective goggles during long-time use.

Do not disassemble or modify the device; this will void the warranty and create safety hazards.

Use in a dry environment (temperature $\leq 42^{\circ}\text{C}$). Avoid enclosed or humid locations to prevent damage.

Do not operate continuously for more than 12 hours. Allow proper rest periods to extend lifespan.

Avoid use in dusty, greasy, or high-vibration environments.

Do not touch the reflector or LED chips directly. If dirty, clean with anhydrous alcohol after

powering off.

Do not bend the power cable repeatedly. If the cable is damaged, replace the entire cord.

5. Warranty

Warranty Policy:

1-year limited warranty.

7-day free return (unused).

15-day free replacement.

Free repair within the warranty period for non-human-caused defects.

Shipping Costs:

Factory covers full shipping if defects occur within 30 days of delivery.

After 30 days, buyer and seller share shipping costs equally.

Non-Warranty Conditions:

Damage caused by improper use (dropping, impact, disassembly, modification).

Damage due to unstable voltage, lightning, fire, or other force majeure.

Damage caused by using non-original accessories.

Normal cosmetic wear or scratches (not affecting function).

Failures occurring after the warranty period.

6. Troubleshooting

Symptom	Solution
Power indicator does not light up	1. Check the power socket and switch. 2. Test with another socket. 3. Check the fuse in the 3-in-1 switch.
Incomplete curing (sticky surface)	1. Ensure UV material matches the lamp wavelength. 2. Increase irradiation time or use higher-power lamp. 3. Adjust distance to 2–5 cm. 4. Use maximum power (if applicable). 5. Replace with qualified UV material. 6. Remove obstructions from the irradiation area.
Longer curing time	1. Clean LED chips and reflector with anhydrous alcohol. 2. Reduce irradiation distance.
Fan noise or not rotating	1. Open housing and adjust wires touching fan blades. 2. Stop use immediately and contact support for fan replacement.
LED flickering	1. Check power plug and socket connection. 2. Inspect and press LED chips for faults.
Timer or power adjustment not working (select models)	1. Contact support for button replacement. 2. Contact support for control board repair.
Excessive lamp temperature	1. Clean cooling vents. 2. Replace faulty fan. 3. Lower ambient temperature below 40°C. 4. Pause use for 10–15 minutes to cool down.