



**UNILITE**

**UV-CURE**

**PROFESSIONAL RECHARGEABLE CURING LAMP**



**⚠ WARNING**

Read this manual before using this product.  
Failure to do so can result in serious injury.  
KEEP THIS MANUAL FOR REFERENCE.


This rechargeable UV-CURE lamp utilises the latest ultra-hi-flux UV-A LED technology that has been matched with custom-designed optics to provide a more efficient, faster, and safer UV curing experience for all automotive repair and industrial finish jobs that require ultraviolet light for curing; such as, curable fillers, base coats (primers), top coats, and clear coatings etc.

## FEATURES:

- ◆ Up to 1s curing time for some UV primers.
- ◆ Powerful irradiance with maximum UV-A intensity of 55,000  $\mu\text{W}/\text{cm}^2$  at 20 cm (8 inches).
- ◆ Successfully tested on UV paint products by these major paint manufacturers - PPG, Akzo Nobel, BASF, Axalta, Doppon etc.
- ◆ Only powers and emits UV-A. No harmful UV-B & C.
- ◆ Efficient built-in cooling system keeps lamp cool to maintain optimum light output during extended use.
- ◆ Wall-mounted charging station provides more convenient recharging process.
- ◆ Efficient ultrasonic range finder function.



## **WARNING**

1. UVA protection glasses  must always be worn when using the Unilite UV Curing Lamp.
2. To prevent permanent eye injury and blindness: Do not direct light at eyes. Serious Risk of eye injury!
3. Do not shine the light directly at uncovered skin.
4. Do not open the device, except when removing battery for disposal/recycling.
5. Keep away from children! This is not a toy.
6. Do not operate in direct sun light or extreme temperature conditions.
7. Inspect before every use; do not use or recharge if there is any damage or loose parts, on the lamp or any accessories.
8. Do not put the lamp face down on the lens, especially while switched on - risk of fire!
9. Have your device serviced by a qualified repair person using only identical replacement parts. This will ensure that the safety of the device is maintained.
10. Only use the charging adaptor that was included with the lamp. Other adaptors may damage device and cause fire.
11. People with pacemakers should consult their physician before use. Electromagnetic fields in close proximity to a heart pacemaker could cause pacemaker interference or pacemaker failure.
12. Contains Li-ion battery. Battery must be recycled or disposed of properly. Do not open, crush, heat above 60°C (140° F) or incinerate.

## GENERAL SPECIFICATIONS

Light Source	High Power UV LED
LED Wattage	66 Watts
LED Lifespan	40,000 Hours
LED Wavelength	$\lambda_p = 395 \pm 5 \text{ nm}$
Battery Type	Li-ion 11.1V - 5200mAh, 57.72Wh
Battery Charging Time	3 Hours
Charging Details	AC 100 - 240V~ 15V $\equiv$ 1.5A
Lamp Run Time	90 Minutes in Total (Max 10 minutes each use)
Lamp Weight	0.9 Kg (2 Lbs)
Lamp Size	159 x 223 x 77mm (6-1/4" x 8-3/4" x 3")
Lamp Body Material	Aluminium & Polyamide
Cooling System	Passive Thermal Management System, enhanced with fan
Storage Temperature	-20°C ~ +50°C (-4°F ~ 122°F)

## TECHNICAL SPECIFICATIONS

Ultrasonic Range Finder	Max 400cm	
Temperature Control Function	Working $\leq 90^\circ\text{C}$ (194°F)	
Safety Protection Function	Double click $\leq 100\text{ms}$	
Curing Distance	50mm(2")	200mm(8")
Curing Area	100mm x 100mm(4" x 4")	200mm x 200mm(8" x 8")
Curing Time	5~12 seconds*	30~80 seconds*
Average Irradiance	135 mW/cm <sup>2</sup>	36 mW/cm <sup>2</sup>
Peak Irradiance	200 mW/cm <sup>2</sup>	55 mW/cm <sup>2</sup>

\*This is laboratory data only for reference. The curing time may vary according to the paint product type, working condition, the curing process and/or other factors



## ACCESSORIES LIST

1. Unilite UV-CURE Curing Lamp
2. 15V 1.5A Universal Charger
3. Universal Country Charger Adaptors
4. Wall-Mounted Charging Station
5. UV Protection Glasses
6. Briefcase Storage Case

## OPERATION

### General Operation

- Put the UV protection glasses on and do not remove them while the UV light is being emitted.
- Press the button for more than 1 second to Power on or off. Then pull the trigger to switch the UV light on or off.

### Locking Protection System

- Double click to lock or unlock the lamp when the power and display screen is off.

### Setting Procedure

- Press button once to start the 'minutes' setting mode, the minutes display will keep flashing.
- Press or button to adjust the minutes required (max 10).
- Press button again to enter the 'seconds' setting mode, seconds display keep flashing.

- Press or button to adjust the seconds required (max 60).
- Press and hold or buttons to adjust faster. The maximum time can be set to "10:00" minutes.
- Press button for 5 seconds to confirm the setting chosen.
- The countdown will start after the trigger has been pressed.
- The countdown can be paused when the trigger is pressed once. It will continue after the trigger is pressed again.
- When the lamp is switched off the next time it is switched back on it will remember the last countdown setting used.
- The UV light will automatically switch off when the remaining time on the display shows "00:00".
- The lamp will automatically power off after 60 minutes of no operation.



## TEMPERATURE CONTROL AND PROTECTION SYSTEM

- Press and hold the **SET** button for more than 5 seconds <sup>1</sup> when the Lamp is powered on, the display screen will show the current temperature <sup>2</sup> of the lamp.
- The Lamp has a built-in cooling system which will automatically activate when the lamp temperature reaches 40°C (104°F) or more.
- When the lamp temperature reaches above 75°C (167°F) and below 90°C (194°F) , a warning buzzer will activate and gives an alarm every 30 seconds during the regular working period. The buzzer will stop when the end of the countdown shows "00:00" or the lamp is turned off manually.
- When the lamp temperature is above 90°C

(194°F) , the lamp will automatically switch off and the cooling system will keep running until the temperature drops below 50°C (122°F). The lamp can not be used during this period until the temperature is lower than 50°C (122°F) .

- It is recommended that the lamp is allowed to cool down for few minutes after each cure and ensure it is switched off . It will ensure that your equipment cures at optimum efficiency and gives a longer working life.



## ULTRASONIC RANGE FINDER FUNCTION

The Unilite UV Curing Lamp has a built-in ultrasonic range finder, ranging distance 4-400±3cm. The display screen will show **FFF** if the distance is less than 4cm or more than 400cm.

## CHARGING PROCEDURE

- Put the corresponding country adaptor onto the 15V 1.5A universal charger.
- Switch the light off and put it in the wall-mounted charging station.
- Connect the charging station with the 15V 1.5A universal charger.
- The charging port on the handle will also be available when the charging station is not available.

Position hole



Wall-mounted Charging Station



Adaptors


Universal Charger



Charging port on the handle



Wall-mounted Charging Station

- There will be a digital battery indicator  on the display screen to show the battery level during charging.
- The battery indicator will flash during charging and all indicators will light up constantly when fully charged.
- A buzzer will alarm 3 times to confirm the charging procedure is finished.
- If the battery indicator does not light up, remove the charger and try again.

- Only use the charger that came with the lamp. The use of a NON-recommended charger can lead to a fire and destroy the light.
- Charge the lamp for 4-5 hours before its first use.
- Fully charge the light before storage, especially if it is not being used for 3 months or more.

## SAFETY INSTRUCTIONS

- Do not use the device if there is damage to the housing, plug or cable. Consult your local authorised specialist!
- Do not open the device! Repair work and replacing the rechargeable battery pack may only be carried out by electricians.
- Carry out cleaning tasks only when the mains plug is removed from the mains power!
- There is a risk of short-circuit. Repairs on the device may only be carried out by commissioned and trained persons. Please contact your nearest authorised branch.
- Protect the battery against heat, e.g., protect from continuous intense sunlight, fire, water, and moisture. Danger of explosion.
- If the battery is damaged or not used correctly, fluids can leak from the battery. Avoid contact. Leaking battery fluids can lead to skin irritation or burns. Rinse off with water if you should come into contact. Seek immediate medical assistance if the fluid gets into eyes.
- Ensure the lamp is not set face down on the lens on any surface - risk of fire!

## ENVIRONMENTAL PROTECTION

- The device should not be discarded in normal household waste under any circumstances. Dispose of the device via an authorised disposal centre or your local waste disposal facility. Observe the current applicable regulations. Contact your waste disposal facility in the event of any doubt.
- Dispose of any packaging materials via an environmentally friendly disposal facility.
- Rechargeable batteries must not be disposed of in the household waste.
- Return used rechargeable batteries to your dealer or hand them in to a battery collection facility.



## WARRANTY

The device has a 1 year WARRANTY against manufacturing faults or defects. The guarantee does not apply to damage to the device arising from failure to comply with these operating instructions. It also does not cover general wear and tear, poor maintenance, accidental damage or modification.

\* Subject to technical changes. Every effort has been made to make sure this manual is correct, however, we assume no liability for errors.