

**UV PROCESS SUPPLY, INC.**  
**Q-LUX PRO -- SPOT GUN LIGHT CURE UNIT**  
**PART # A121-026**

**ELECTRICITY:**

VOLTAGE  
 120VAC+/-10% 50/60HZ  
 230VAC+/-10% 50/60HZ  
 100VAC+/-10% 50/60HZ

SERIAL NO.  
 ABXXXXX  
 EBXXXXX/BBXXXXX (UK PLUG)  
 JBXXXXX

BULB: 12VAC,75W/G5.3-4.8  
 FUSE: T1AL250V (230VAC TYPE) T2AL250V (115VAC TYPE)  
 T2.SAL250V (100VAC TYPE)  
 WATTAGE: MAX. 90W

**OPERATION ENVIRONMENT:**

AMBIENT TEMPERATURE: +10°C --+40°C  
 RELATIVE HUMIDITY: 30%-75%  
 ATMOSPHERIC PRESSURE: 700hPa- 1060hPa

DIMENSION:	POWER UNIT (NO FIXTURE)	CURING GUN (NO OPTIC PROBE)
HEIGHT:	7.1cm	15cm
WIDTH:	13.5 cm	5.8cm
DEPTH:	18.5 cm	11.7 cm
WEIGHT:	1750g	380g

**TRANSPORTATION AND STORAGE ENVIRONMENT:**

AMBIENT TEMPERATURE: -10°C+70°C  
 RELATIVE HUMIDITY RAGE: 10%-90%  
 ATMOSPHERIC PRESSURE: 500hPa- 1060hPa

**SYMBOL:**

- I      DEPRESSING POWER SWITCH AT THIS END WILL TURN POWER ON.
- DEPRESSING POWER SWITCH AT THIS END WILL TURN POWER OFF.
- ⊙      WHEN LIGHT IS ON, DEPRESSING TRIGGER SWITCH ON CURING GUN WILL TURN LIGHT OFF. WHEN LIGHT IS OFF, DEPRESSING TRIGGER SWITCH ON CURING GUN WILL TURN LIGHT ON.
- DEPRESS THIS SWITCH TO PRESET CURING PERIOD.
- !      INTERRUPTION DUE TO OVERHEATING OF CURING GUN OR BURNT OUT BULB. PLEASE REFER TO DETAIL IN CLAUSE 8 OF THIS OPERATON MANUAL.

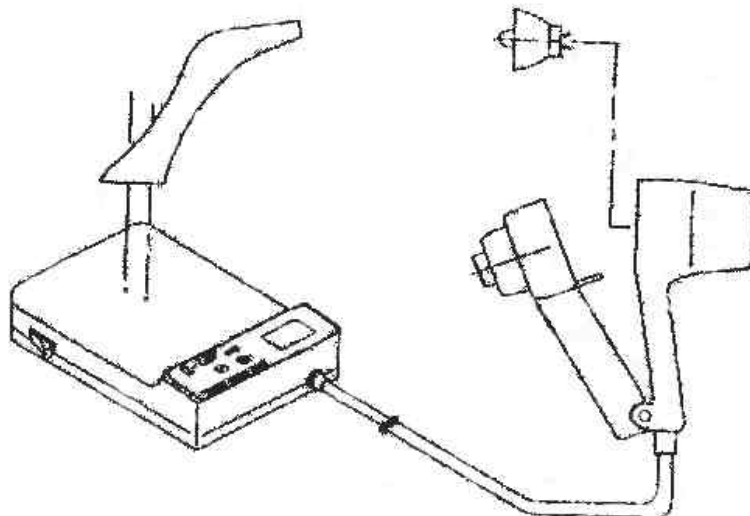
CLASSIFICATION: BF TYPE, CLASS 11.

EQUIPMENT NOT SUITABLE FOR USE IN THE PRESENCE OF FLAMMABLE ANESTHETIC MIXTURE WITH AIR OR WITH NITROUS OXIDE.

**CONTENT:**

POWER UNIT	1 piece
CURING GUN	1 piece
GUN HOLDER	1 piece
GENERAL USE OPTIC PROBE	1 piece
SCREWS FOR HOLDER	2 pieces
PROTECTION EYE SHIELD	1 piece
LIGHT BOX WITH REFLECTOR	1 piece

**OPTION:**  
 PROTECTION GLASSES WITH FRAME  
 PROTECTION GLASSES CLIP ON  
 LARGE DIAMETER STRAIGHT OPTIC PROBE  
 LARGE DIAMETER CURVED OPTIC PROBE  
 LIGHTMETER#105



ASSEMBLY & BULB REPLACEMENT ILLUSTRATION

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**IMPORTANT CAUTION**

1. Do not attempt to change bulb unless the lamp and shield have had sufficient time to cool and power supply is unplugged.
2. Never immerse any part of unit in water.
3. Avoid looking directly into light. Do not expose this light to persons with extreme brightness sensitivity.
4. Light guide must be clean and sterilized before use.
5. We recommend that our curing light not be used for a patient or user who has been fitted with an implanted heart pacemaker and has been cautioned against the use of small electrical appliances such as hair dryers, etc.

**FUNCTION**

The Q-LUX Pro is a reliable, compact curing unit for spot/larger area (10cm x 10cm) curing. It generates the high intensity at about 100 mw/cm<sup>2</sup> @365nm. The Q-LUX Pro V is available in either UV or VISIBLE light wavelength model (wavelength: 300nm-500nm). After squeezing the switch, it starts the cycle time with beeper sound each 10 seconds and stops automatically.

**PARTS**

**Power switch:** Located on left side of power box to control power on/off and resetting built-in program.

**Lamp switch:** Located on the curing gun for controlling lamp on/off.

**Time set switch:** Located on panel of power box for cure time setting.

**LCD DISPLAY**

**Curing time display:** To indicate curing period from 10 seconds to 9 minutes every 30 seconds. There are 23 selections.

**Overheat:** Indicates curing gun is overheated or lamp circuit is open (bulb is burned out.) But "overheat 000" is defined specially to indicate power box is overheated. When this happens, the lamp cannot be turned on.

**Light intensity reading:** To indicate the light intensity in mw/cm<sup>2</sup> at a range of 400-500nm wavelength (blue light) for the light detected at detecting window on top of power box.

**OPERATING INSTRUCTIONS**

1. **Optical probe:** To insert probe into nose cone, push and turn clockwise at the same time until probe passes through locking spring inside of nose-cone.
2. **Electrical Plug:** See electric information plate at bottom of power unit. Plug the power cord into appropriate AC outlet.
3. **Power unit:** Depress the power switch button at left side of the power box to power the unit. The LCD display will show the curing time set last or 40 sec.
4. **Curing:** Probe must be in close proximity to the material being cured, avoiding contact. The flat end of probe must be parallel to the surface being treated.
5. **Curing time setting:** Depress the "time set" button to set the curing time you want.
6. **To activate curing light:** Depress the trigger switch on curing gun and release it. The timer in the power box will turn off the light when the cycle has elapsed. At any time during the cycle, the light can be turned off manually by depressing the trigger switch of curing gun a second time.
7. **Depressing the trigger switch:** Will also activate the cooling fan. The fan will continue to run throughout the curing cycle and will remain on for a period of time (maximum about 3 minutes) after the curing light is off. If overheating occurs and the fan stops after 3 minutes, depressing the trigger switch will start the fan again.
8. **The control circuit:** Can detect the lamp's open circuit indicating a Thermostat cut off circuit due to overheating or burned out bulb. The long beeping when depressing switch of curing gun is the signal of an open circuit. The thermostat can be restored after a period of cooling.

**NOTE:**

1. The microprocessor needs a very stable power source and the built-in circuit has been designed to stabilize the power source. However, occasionally a large power surge may scramble your preset program. You can switch off the power and turn it on again to reset the built-in program and your unit should work normally again. As well, we suggest turning off the power if the unit will be idle for more than one hour.

2. If the lamp remains activated for an extended period, a safety thermostat will cut off the lamp to protect the curing gun from overheating. Operation can be restored by simply allowing fan to run for 3 to 4 minutes. Normal usage may then be resumed.

**BULB REPLACEMENT:**

**NOTE:**

1. Make sure unit is unplugged.
2. Allow sufficient time for bulb and heat shield to cool.
3. Use only appropriate bulb available from the distributor. Incorrect bulb type may cause whole unit break down.
4. Bulb & reflector are a complete unit and are removed by grasping the reflector only, not the bulb.

1. Use a thin coin to loosen the thumb screw in the handle and open curing gun from top end. The bulb will be exposed.
2. Pull the reflector bulb unit straight out of the barrel by grasping reflectors-- *not the bulb alone.*
3. Insert the bulb/reflector unit by pushing the new bulb/reflector unit straight into the socket, making sure to handle only by reflector. Match the prongs on the bulb with slots of the socket and avoid touching the inside of reflector.
4. Close curing gun and tighten the screw until snug. Do not over tighten.

**CLEANING AND STERILIZING  
OPTIC PROBE:**

**CAUTION:**

1. Never use incompatible chemical vapor type sterilizing due to damage that can result to the fiber optic and its binding material.
2. Do not use any instruments or abrasives on the ends of optic probe. Loss of light emission may result.

Probe must be cleaned free of adhesive or dirt prior to sterilizing. The cleaning consists of wiping the surface slightly with a cleansing solution and wiping with a dry cloth.

**POWER UNIT AND CURING GUN**

**CAUTION:**

1. The power unit must be unplugged before cleaning and disinfecting in order to prevent electric shock.
2. Do not wash or spray the surface of the power unit and curing gun with water, cleanser and chemical disinfectant as it will result in electric shock and damage of inner circuitry.

The cases of the power unit and curing gun are made of plastic material PBT and ABS. To clean, wipe the surface lightly with a cleansing solution and a dry cloth. To disinfect, wipe surface with a cloth slightly dampened with a chemical disinfectant. Then wipe surface with a moist cloth and dry thoroughly including crevices.

**LIGHT INTENSITY TESTING - (Only for Blue light)**

When lamp is on, center the optic probe on the detecting window with the label on the power box. The reading of the LCD display is the curing source intensity shown in mw/cm<sup>2</sup>.

**NOTE:**

1. If the curing source intensity is too weak, that will not activate the light detector and LCD display will still show curing time elapsed.
2. Tests should be made with the same diameter light guide larger than 7mm.

**WARNING:**

The manufacturer takes no responsibility for the safety and reliability of the device if any of the following occur:

- A) Technical extensions, changes or adjustments were carried out by an unauthorized person.
- B) The device is not used in accordance with the requirements of this manual.

"THIS DEVICE HAS BEEN TESTED AND FOUND TO COMPLY WITH REGULATION OF EN 60555-2-1987 EN 61000-3-3/01.95 & EN 60601-1-2/05.93".