CE

POWER LIGHT 100 LIGHT CURE UNIT

ELECTRICITY:

VOLTAGE		SERIAL NO.
120VAC+/-10%	50/60HZ	ABXXXXX
230VAC+/-10%	50/60HZ	EBXXXXX/BBXXXXX(UK PLUG)
100VAC+/-10%	50/60HZ	JBXXXXX

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

DIMENSION :	POWER UNIT (NO FIXTURE)	CURING GUN (NO OPTIC PROBE)
HEIGHT :	6.8CM	15CM
WIDTH :	13.5CM	5.7CM
DEPTH :	18.5CM	12CM
WEIGHT :	1600G	350G

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.
: DEPRESSING THIS SWITCH TO PRESET CURING PERIOD.
⚠ : INTERRUPTION DUE TO OVERHEAT OF CURING GUN OR BULB BURNT OUT. PLEASE REFER ITS DETAIL TO CLAUSE 8 AT SECTION OF OPERATON INSTRUCTION.

CLASSIFICATION : BF TYPE, CLASS Ⅱ.
⚠ CONTINUOUS OPERATION WITH INTERMITTENT LOADING (LOAD TIME 9.5 MIN.OFF TIME ONE MIN.)

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

CONTENT :

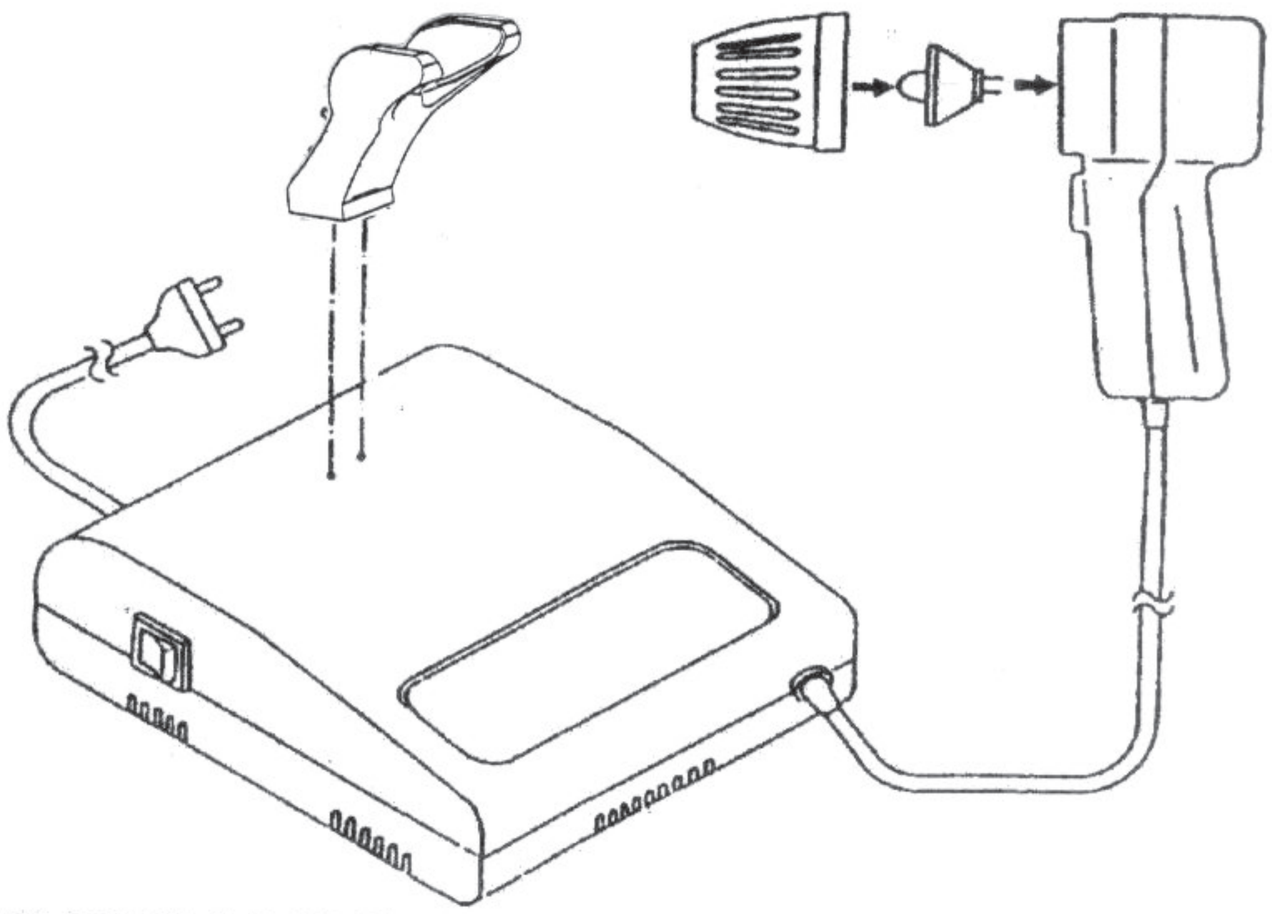
POWER UNIT	1PC
CURING GUN	1PC
GUN HOLDER	1PC
GENERAL USE OPTIC PROBE	1PC
SCREW FOR HOLDER	2PCS
PROTECTION EYE SHIELD	1PC

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

OPERATION ENVIRONMENT:
AMBIENT TEMPERATURE : +10℃～+40℃
RELATIVE HUMIDITY : 30%～75%
ATMOSPHERIC PRESSURE : 700 hPa～1060hPa

TRANSPORTATION AND STORAGE ENVIRONMENT:
AMBIENT TEMPERATURE : －10℃～+70℃
RELATIVE HUMIDITY RAGE : 10%～90%
ATMOSPHERIC PRESSURE : 500 hPa～1060hPa

REM : WE AND OUR AUTHORIZED DISTRIBUTOR WILL MAKE AVAILABLE ON REQUEST CIRCUIT DIAGRAM, COMPONENT PART LISTS AND OTHER INFORMATION TO ASSIST USER'S APPROPRIATE TECHNICAL PERSONNEL TO REPAIR THE LIGHT CURE UNITS WHICH ARE DESIGNATED BY US AS REPAIRABLE.



ASSEMBLY & BULB REPLACEMENT ILLUSTRATION

REV. 1-1-13

IMPORTANT CAUTION

1. Do not attempt to change halogen bulb unless the lamp and shield have 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 shall 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

To produce light range between 400 & 500nm to polymerize light cured dental restorative material such as light cure composite, pit and fissure sealants, bonding agents, adhesion primers etc. which are applied in the restoration of function and appearance of the teeth of patient.

PARTS

Power switch : located at left side of power box to control power on or off and reset built-in program.
Lamp switch : located at the curing gun to control lamp on or off.
Time set switch : located at label on the top of power box for curing time setting.

LED Display:

"00" : Indicate continuous mode, after lamp is on, buzzer will beep every 10 sec. And lamp can only be off after lamp switch is retriggered or power switch is off. **"10" To "60" :** To indicate curing period 10 sec to 60 sec is presetted, after lamp is on, lamp can be off by depressing lamp switch again or it will be off automatically if curing time is over.

OPERATION INSTRUCTION

1. Optical Probe:
   To insert probe into nose cone push and turn clockwise at the same time until probe passes through locking spring inside the nose-cone.
2. Electrical Plug:
   See electric information plate at bottom of power unit first and plug the power cord into appropriate AC outlet.
3. Power unit:
   Depress the power switch button in front of the power box to energize the unit. The LED display on top of the power box will light up to show unit is on.
4. Curing:
   The probe tip shall be used in close proximity to the material to be cured. Avoid actual contact. The flat end of probe should be parallel to the surface being treated. First dentist shall select the mode by mode setting switch.
   a) If "00" is selected, dentist shall depress lamp switch and release it, lamp will be on, LED display will start from "00" to count the curing time and buzzer will beep every 10sec period. If dentist wants to turn off the lamp, lamp switch shall be depressed again and released.
   b) If curing period is pressetted from 10 sec to 60 sec, dentist shall depress lamp switch and release it and lamp will be on. LED display will start from "00" to count the curing period. And while preset curing time is over, lamp will be off and buzzer will beep at the same time.

NOTE:

1. For the microprocessor needs very stable power source and although the built in circuit has this design to stablize the power source. But possibly, large surge from line may make preset program scrambled. Dentist can turn off power switch on power box and turn on power switch again to reset built in program and unit will work normally again. Therefore, we suggest dentist to turn off the power, if the light cure unit will be idled 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 curing gun from overheat. At that time overheat light will be on and LED display will halt curing time counting. Operation can be restored by simply allowing fan to run for 3 to 4 minutes. Normal usage may then be resumed. Light will be on automatically again and LED display will continue the time counting. But when overheat occurred, we suggest dentist to turn off the lamp by retrigger lamp switch at curing gun for the lamp will be on automatically if normal usage is assumed, and bulb will be on until burned down under continuous mode if lamp is left without attention.
3. Follow manufacturer's direction for curing times on various materials. It is best to over cure rather than under cure. Over curing will not harm the restoration.

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 to keep its function properly. Incorrect bulb type may cause whole unit break down.
4. Bulb & reflector are a complete unit is removed by grasping the reflector only not the bulb.

1. Open front cap by rotating it counter clockwise and 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. Do not touch the bulb itself, matching the prongs on the bulb with slots of the socket and avoid touching the inside of reflector.
4. Close the front cap by rotating it clockwise.

CLEANING AND STERILIZING

OPTICPROBE:

CAUTION

1. The use of a dry heat oven, incompatible chemical vapor type sterilizing must be avoided as damage can result to the optic fiber 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 shall be cleaned free of saliva or dirt prior to sterilizing. The cleaning consists of wiping the surface slightly with a cleansing solution and wiping with a dry cloth. Sterilizing by autoclave is preferred.

POWER UNIT AND CURING GUN

CAUTION

1. The power unit shall be unplugged before cleaning and disinfecting the power unit and curing gun to prevent from electric shock.
2. To wash or spray the outsurface of power unit and curing gun with water, cleanser and chemical disinfectant is not allowed for it will result electric shock and damage of inner circuit. If this happens, please contact our dealer for inspection before use.

The cases of power unit and curing gun are made of plastic material PBT and ABS. The cleaning consists of wiping the surface slightly with a cleansing solution and wiping with a dry cloth. The disinfecting consists of wiping with a cloth slightly dampened with a chemical disinfectant and allow it to remain on the surface for the manufacturer recommended period, but no longer. then wipe surface with a water wet cloth and dry thoroughly including crevices. Appropriate disinfectant information can be obtained from our authorized distributor.

WARNING:

The manufacturer takes no responsibility for the safety and reliability of the device, if
A) Technical extension, changes or adjustments were carried out by no authorized person.
B) The device is not used in accordance with 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".

CAUTION:
U.S. FEDERAL LAW RESTRICTS THIS DEVICE TO SALE BY OR ON THE ORDER OF A DENTIST.