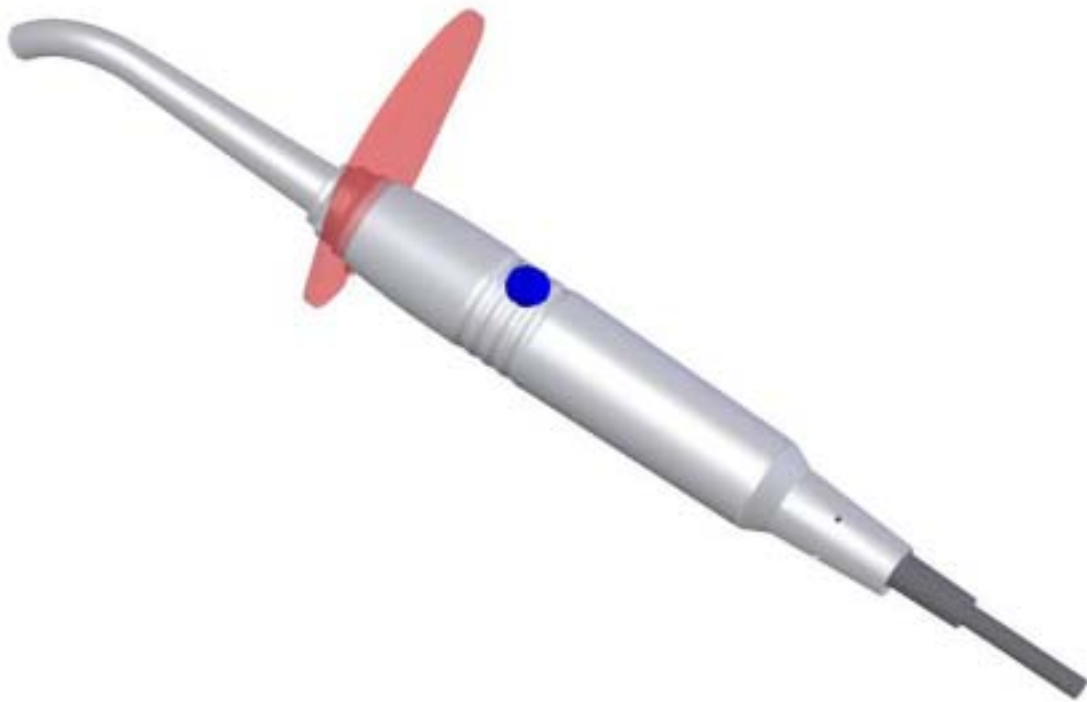


ADVANCE LED 3

User manual



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Caution:






U.S. Federal Law restricts this device to sale by or on the order of a dental professional.

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1. Safety Precautions

PLEASE NOTE

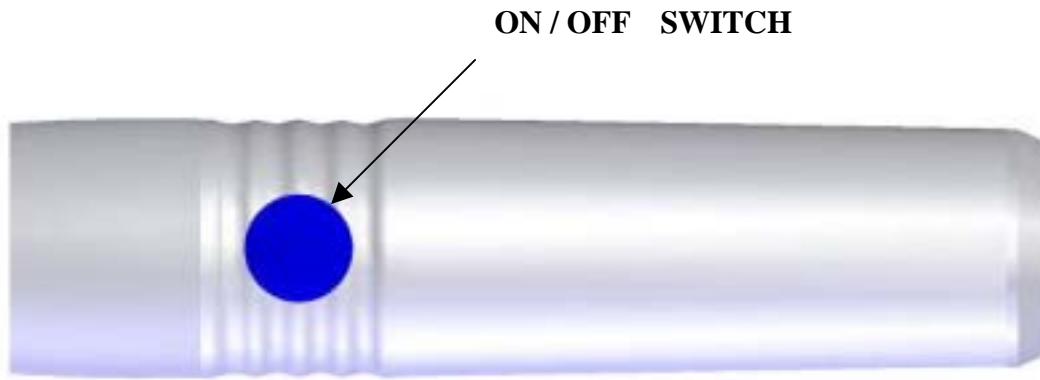
Prior to installation and start-up of the unit, carefully read the instructions provided herein. As with all technical devices, the proper function and safe operation of this unit depend on the user's compliance with the safety recommendations presented in these operating instructions.

- Before operation, you have to read user manual carefully.
- Refer to Section, Cleaning / Disinfecting.
-  CAUTION: This curing unit produces high output curing energy! A significant increase in curing energy is possible compared with equipment you have previously used. It is important to observe the following precautions and procedures:
 - Do not place light directly on or toward unprotected gingival or skin.
 - Adjust your curing techniques in accordance with the increase in curing energy. Some examples are; decrease curing time, increase composite thickness, increase distance between light guide end and light cured materials.
-  CAUTION: Do not look directly at the light emitted from this curing unit. Do not use this device without suitable protective eyeshade for the operator, assistant and patient. Suitable protective eyeshade can blocks almost energy below 550nm.
-  CAUTION: Persons having a history of photosensitive reactions or who are using photosensitizing drugs should not be exposed to light from this unit.
-  CAUTION: Equipment is not suitable for use in the presence of flammable anesthetic mixture with air, nitrous oxide or environment full of flammable material.
-  CAUTION: To keep the safety operation, we suggest that check your local AC power supply voltage before you buy this product from oversea.

2. Product Description& Fields of Application

The ADVANCE LED 3 with blue LED is a light curing unit intended for polymerization of light cured materials by dental professionals. And it emits light mainly in the wavelength range of 440 to 490 nm i.e. the relevant range for camphor quinine (CPQ) containing product. Though the majority of light-curing dental materials are responsive in this range of wavelengths, you need to contact the agent of the material to make sure it before usage.

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3. Technical Data (Subject to technical modification without prior notice)

Power Adapter

- Power Supply Input: 110/230VAC, 60/50HZ / Max0.4A
(refer to rating plate for factory-set voltage)
- Power Supply output: 12VDC/1A
- Weight: 460 g

Handpiece

- Power supply: With power adapter
- Wavelength range: 440-490 nm
- Dimensions:
 - Diameter: 22 mm
 - Length: 224 mm
- Weight: 90 g

Power Adapter and Handpiece

- Relative humidity: max. 80% at 37
max. 50% at 40
- Equipment class: Class I (IEC601-1)
- Protection from electric shock: Type BF (IEC601-1)
- Protection from ingress of liquids: None

Operation Environment

- Ambient temperature: 0 ~ +40
- Relative humidity: 30% ~ 75%
- Atmospheric pressure: 700hPa ~ 1060hPa

Transportation and Storage Environment

- Ambient temperature: -10 ~ +70
- Relative humidity range: 10% ~ 90%
- Atmospheric pressure: 500hPa ~ 1060hPa

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4. Content

Hand piece + Adapter	1pcs
Protection eye shield	1pcs
User manual	1pcs
Disposable Light Guide	1pcs

Optional content

Glass Light Guide	1pcs
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5. Additional symbols

Attention, consult



Alternating Current



6. Installation of the Unit

Power Adapter

- Please ensure first that the voltage stated on the rating plate corresponds to be same as the voltage of local power outlet. The rating plate is attached to the bottom of adapter.

7. Operation

Activating and Deactivating the Light

- Activate the light by briefly depress the Start button.
- If it is desired to turn off the light, this can be done by again depressing the Start button.
- 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.
- Light intensity: minimum 500mW/cm²
- Curing time: Constantly high output for 40seconds
- Reminding beep for curing time: every 10 seconds
- Duration of continuous use: roughly 4 minutes (before activating temperature control)
- If the temperature on hand piece over 50°C, buzzer continuously beep 5 times and stop working until the temperature low than 45°C.

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Note:

- Follow manufacturer's directions for curing times on various materials. It is better to over cure rather than under cure. Over curing cannot harm the restoration.
- If the LED remains activated for an extended period, a safety thermostat will cut off the LED to protect curing unit from overheating. Normal usage may then be resumed if the handpiece is idled for an extended period for cooling.

8. Operating Errors

Error	Cause solution
1. Cannot operate	<ul style="list-style-type: none">● Check the power adapter is connected well.● Try again.● If not sure what happen, contact agent for repair.● Overheat, please wait for handpiece cooling down. Waiting time can be shortened if handpiece is cooled by compressing air.

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.

9. Cleaning / Disinfecting

..... **CAUTION**.....

- The use of a dry heat oven, incompatible chemical vapor type sterilizing must be avoided as damage can result to the optic lens and its binding material.
- Do not use any instruments or abrasives on the ends of optic lens, loss of light emission may result.

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Power Adapter and Handpiece

..... **CAUTION**.....

- The power adapter shall be unplugged before cleaning and disinfecting the power adapter and handpiece to prevent from electric shock.
- To wash or spray the out surface of power adapter and handpiece 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.

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The cases of power adapter and handpiece are made of aluminum. 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 allows it to remain on the surface for the manufacturer recommended period, but no longer. Then wipe surface with water wet cloth and dry thoroughly including crevices. Appropriate disinfectant information can be obtained from our authorized distributor.

10. Liability

We consider itself responsible for the effects on safety, reliability and performance of this product only if:

- Assembly operations, extensions, re-adjustments, modifications or repairs are carried out by persons authorized by us.
- The electrical installation of the relevant room complies with the requirements.
- The equipment is used in accordance with these instructions for use.

11. Warranty

We hereby warrants that for a period of one year from the date of purchase this instrument shall be free from defects in material and workmanship and will perform satisfactorily under normal use and service.

The warranty stated herein is the sole warranty applicable to our products. We expressly disclaim any and all other warranties expressed or implied, including warranties or merchantability or fitness for a particular use. Our liability with prospect to its products expressly limited to the remedies set forth above. The remedies are the buyer's exclusive remedies. We shall under no circumstances be liable for incidental or consequential damages.