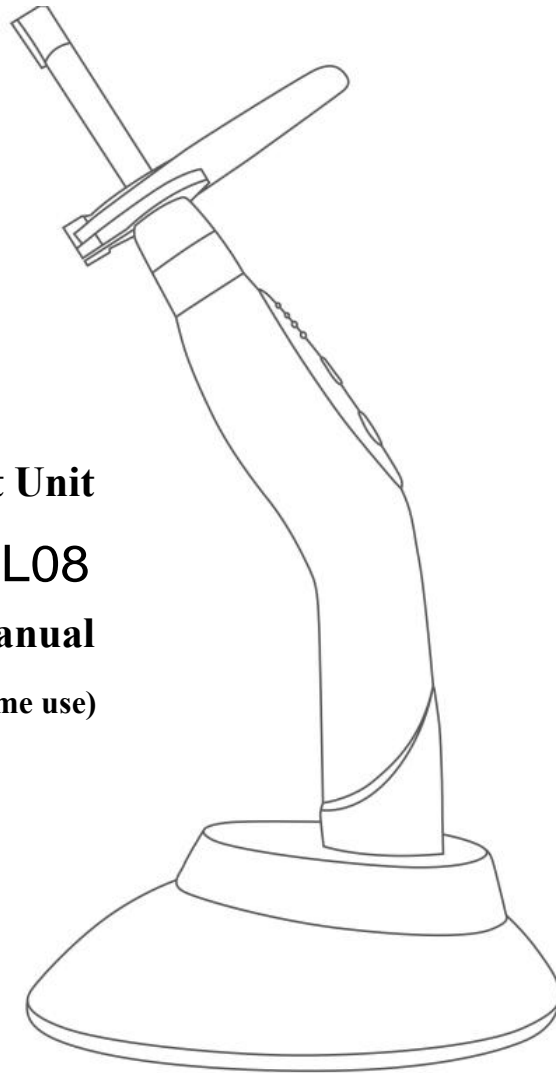**LED Curing Light Unit**

TR-DCL08

Instruction Manual

(Please read carefully before first time use)

I. PRODUCT PRINCIPLE AND APPLICATION

1. Principle: using the LED light radiation to solid the liquid and photosensitive resin,it also can detect the cavity.

2. Application range: for dental use, it can accelerate recovering the teeth,whitening the teeth and detecting the cavity.
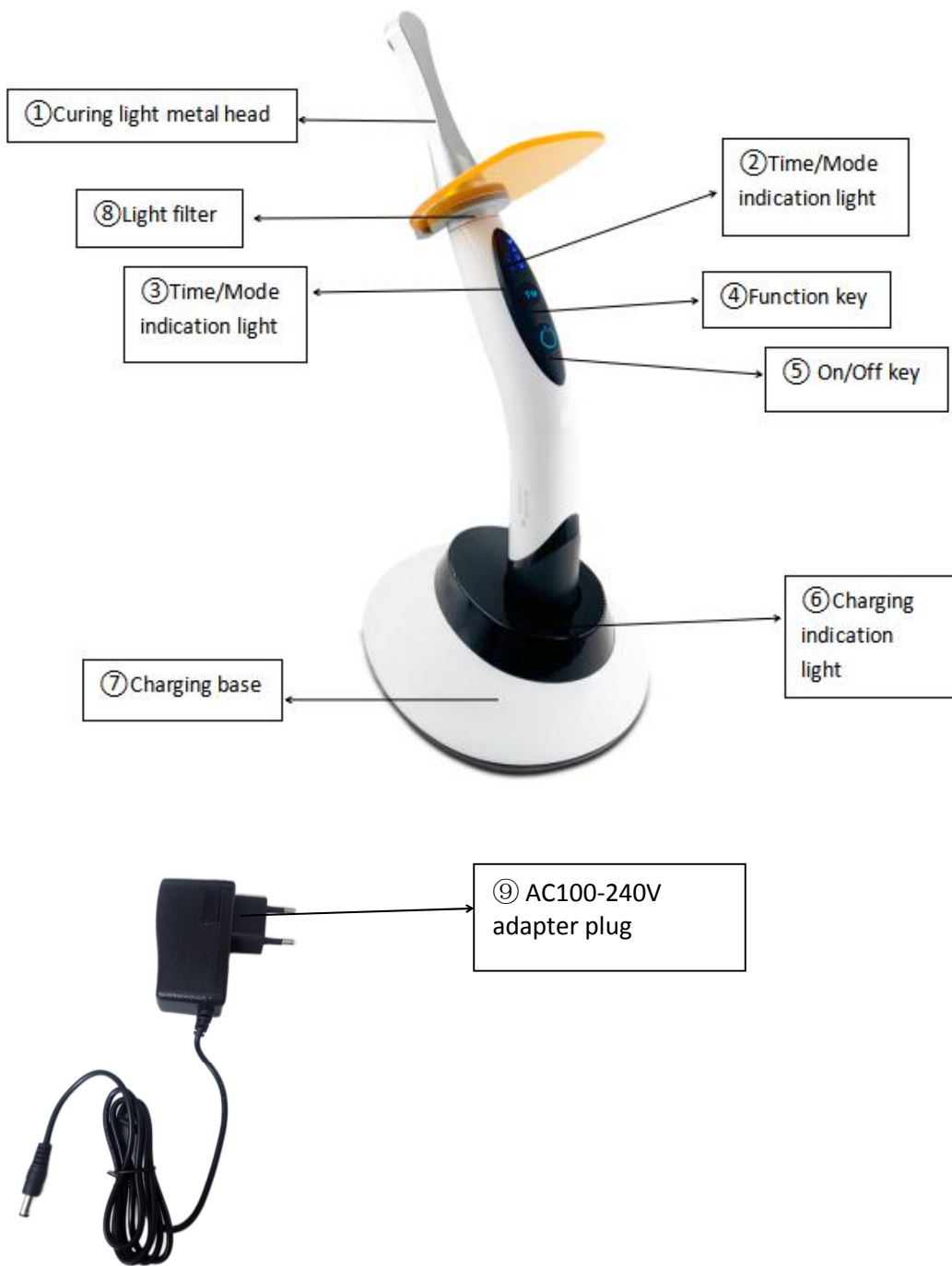
II. INSTRUCTION AND COMPONENT

The LED curing light completely uses new technology, which ensures the same light intensity during its working time with powerful light guided by total aluminum light tip.

III. TECHNICAL DATA

1. Merchandise dimension: 14*18*11cm

2. Classification: ordinary, B type, working intermittently, Class II

3. Battery information

3.1 type：Lithium ion battery

3.2 Battery capacity: 1500Mah

3.3 Battery voltage: 3.7V

3.4 Battery charging voltage: 4.2V

3.5 Optical parameters

Wave length: 385-520nm

Light intensity: Super strong light curing mode: 2500 mW/cm²

Normal curing mode: 1600 mW/cm²

3.6 Transportation and storage environment

Environmental temperature range: -20℃~+55℃；

Relative humidity range: ≤93％；

Atmospheric pressure range: 50kPa-106kPa；

3.7 Operating environment

 3.7.1 Relative humidity range：≤80%

3.6.2 Environmental temperature range：+5℃~+40℃

3.6.3 Atmospheric pressure range: 75kPa~106kPa

IV. PRODUCT OPERATION PARTS

① Curing light metal head

⑧ Light filter

③ Time/Mode indication light

② Time/Mode indication light

④ Function key

⑤ On/Off key

⑥ Charging indication light

⑦ Charging base

⑨ AC100-240V adapter plug

① Curing light metal head	② Time/Mode indication light
③ Time/Mode Indication light	④ Function key
⑤ ON/OFF key	⑥ Charging base
⑦ Charging indicating light	⑧ Light filter
⑨ Adapter	

V.OPERATION METHOD

1. Ensure the battery is full, install the curing light metal head and light filter correctly.

2. Turn on the unit: press key ⑤ to activate the unit, at this time the Time/mode indication light will be bright.

3. ⑤ ON/OFF key: Turn on/off key to start or stop its work. Press this key, blue light will be output with the setting intensity, working time and working model, it will stop working automatically when it reaches the specified setting time, or it will stop working if you press this key again during its working time.

4. ④ Functional key: Press this key to set working time and mode

4.1 Mode setting: Press ④ key without release about 1 second to exchange the mode, when it turns to the super strong light curing mode, ③ the indicator light color will be orange. When it turns to the normal curing mode, ② the indicator light colors will be blue.

4.2 Time setting: When blue light is not in curing working state, press ④ this key to choose working time from5s to 20s or 1s or 3s.

 (Press in short time,

Under normal curing mode, 1blue light means 5s, 2 blue lights means 10s, 3 blue lights means 15s, 4 blue lights means 20s.

Under super strong curing mode, 1 yellow light means 1s, 2 yellow lights means 3s.)

5. Caries detector function

The curing light is with automatic caries detector function, when the light illuminates on the teeth, if there are any cavity, the cavity will be showed in pink color while healthy teeth showed in white color.

VI. CHARGING INSTRUCTIONS

1. ⑥ Charging base: Connect the adapter ⑨ with the charging base ⑥ , the ② time /mode indication light will flash which means it is during charging process. Curing light will be automatically protected during charging and it will not work no matter what button you press. There will be no blue light output during charging. Only when you remove the charging adapter, then it will work.

2. During charging process,⑦ the charging indicating light will be green color and ②the time/mode indication light will flash always until it is fully charged. When it is fully charged, it will stay on but will not flash and ⑦ the charging indicating light will turn to be yellow color.

3. Under the standby condition, if there are no actions during 60s, the curing light will turn off automatically.

Notice: Don't illuminate the eyes directly during use.

VII. MAINTENANCE METHODS

1. Curing light is suggested to be charged every 90 days if left unused for long time.

2. Product disinfection:

Metal head: wipe with 75% alcohol,DO NOT DEEP THE WHOLE HEAD INSIDE ALCOHOL,PCB INSIDE.

All other parts: cleaned by clear water or disinfectant; Do not use volatile and dissolved cleaner in order to protect the panel mark from fading.

VIII. PRECAUTIONS

1. The light source should be illuminated to the resin material directly to prevent affecting curing effect caused by inappropriate position.

2. Patients with biological reaction history are forbidden to use.

3. Blue-light is forbidden to illuminate eyes directly.

4. Suggest 20 seconds interval for two glowing time.

6. Disinfection: The metal head wipe with 75% alcohol; the curing light handle cannot be disinfected by high temperature, clear water is usable to clean the surface.

7. Please charge the battery in cool and ventilated house.

IX. PROHIBITIONS

1. Patients with biological reaction history were banned.

2. Patients or doctors with cardiac pacemaker were banned.

3. Patients with heart disease, pregnant women and children should be used with caution.

X.AFTER-SALE SERVICE

1. Two years guarantee for the whole unit from the date of delivery, within the warranty period of validity, we are responsible for any troubles caused by quality problems or products technique and structure.

2、Any one of the following regulations, You have to pay for repair

a. The damage caused by disobeying the operation instruction.

b. The damage caused by unsuitable operation or disassembly without authorization.

c. The damage caused by force majeure.

d. NO Guarantee Card or Purchase evidence.

e. Beyond free warranty date

XI. PACKING LIST

Curing light handle	1 set
Charging base	1 set
Curing light Metal head	1 pc
Light filter	1 pc
Instruction manual	1 pc
Adapter	1 pc

XII. SYMBOL SIGNS EXPLAINED

Type B application part

IPX0 Ordinary equipment

Attention! Please refer to the document

Ⅱ Kind of equipment

Only for indoor

CE

Production date

Manufacturers

XIII. ENVIROMENTAL PROTECTION

The device does not contain any harmful ingredients, can according to the relevant regulations of the local process or destroyed.