

## Safety caution



### CAUTION:

Please read the following information completely before use this product.

- 1.The light is harmful, please do not aim it to the eyes, it should be only aimed at the treatment place on the teech .
- 2.Non-original battery is prohibited, otherwise the unit would be damaged. Please take out the battery if the unit is going to stand by for a long time.
- 3.The accessories of this products can be cleaned by the water , do not soak. Solvent is prohibited during the clean, this will cause the unit surface fade.
- 4.Please do not place the equipment around the flammable object or irradiate the flammable liquid.
- 5.If the equipment malfunction because of the non-original accessories, we will take no responsibility. Especially the other adaptor or battery might be dangerous to the patient or the operator, and damage the equipment as well.
- 6.Please avoid the detergent entering the unit, in case of the short circuit and malfunction.
- 7.This equipment is not allow to modify and disassemble personally.
- 8.Considering the safety, using this unit to the patient who is wearing a pacemaker is not be suggested.
- 9.Regarding to the disposal of the battery and other accessories, please obey the local law, and contact our after sale for recovering if necessary. It is not allowed to open the battery personally, otherwise it may cause the short circuit or leaking of the electrolyte.
- 10.This equipment is used for professional only.

## Standard configuration

Sterilize needle(Fine)	5
Sterilize needle( Thick)	5
Light guide rod	1
LED head (Blue)	1
LED head (Red)--(Optional parts)	1
Handle	1
Charging base	1
Adaptor	1
Users guide	1

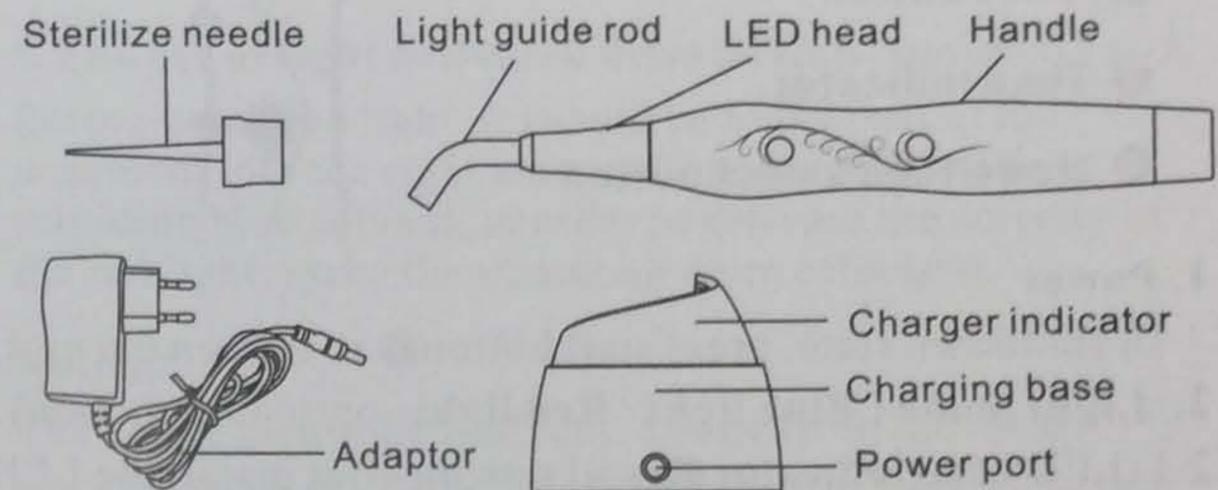
Sterilize needle	size/taper
Fine: 10#	Thick: 16#

## Intended use

1. High-intensity blue light of a specific wavelength can cure the resin, purpose is to help the doctor to recover the teeth.
2. High-intensity red light of a specific wavelength can sterilize or diminish inflammation for teeth.  
--(Optional function)
3. This product provides only to the dentists who have already been trained and use only in clinic and laboratory.

## Construction and installation

This product is consist of sterilize needle, light guide rod, LED head, handle, charging base and adaptor.

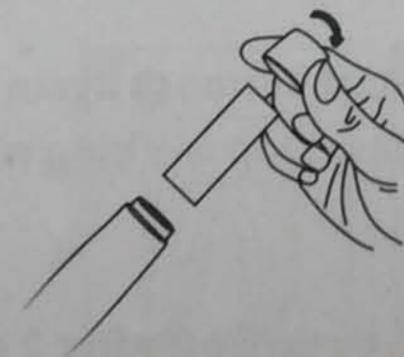


### Install the LED head



According to your demand, choose the appropriate LED head of treatment, then install the light guide rod and LED head. Make sure the head is well insert to the handle.

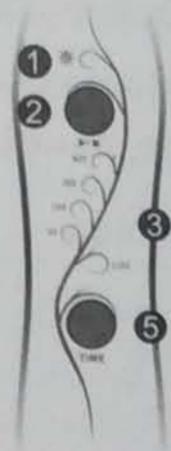
### Change the battery



Open the battery cover counter clockwise, remove the battery, put a new battery back to the unit, then close the cover clockwise.

## Function and use

- ① LED head indicator
- ② Start button
- ③ Time indicator
- ④ Mode/time select button



### 1. Power

In shutdown state, press start button ② to turn on the unit.

### 2. Light mode ( Blue light / Red light--optional function)

- 2.1 LED head indicator ① will turn on after install the LED head, if install the blue light LED head, indicator will turn blue; otherwise, it will turn red.
- 2.2 When install blue light LED head, time indicator ③ can be selected between 5s, 10s, and 20s by pressing mode/time select button ④ ; when install red light LED head, time indicator ③ can be selected between 60s and 120s.
- 2.3 Press start button ② ,the LED head will work with blue light,there is a beep every 5s .
- 2.4 During the unit working,it can be stopped while pressing start button ② again.
- 2.5 After a treatment period, press start button ② again can start a new treatment period, please stop working while the unit is very hot.

### 3. The function of auto power-off

For saving the power, the unit will be turn off after 2 min without any operation above mentioned.

### 4. Indicator for low power

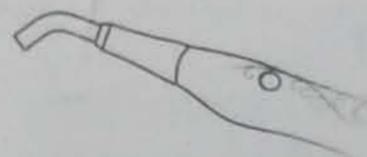
When low power is detected, LED head indicator ① will start flashing, all the other indicator will turn off, and the beep will start, and no reaction even press the button.

### 5.The use of light activated disinfection--optional extra

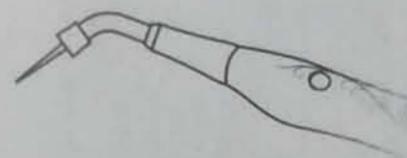
Before using red light, it should be to the part of the treatment into the right amount of sodium chloride or toluidine blue solvent, in order to activate the activity of the red light, make the treatment more effective.

#### Notice:

The above mentioned solvent, can be from the local hospital or on the [www.guidechem.com/](http://www.guidechem.com/) website to buy.

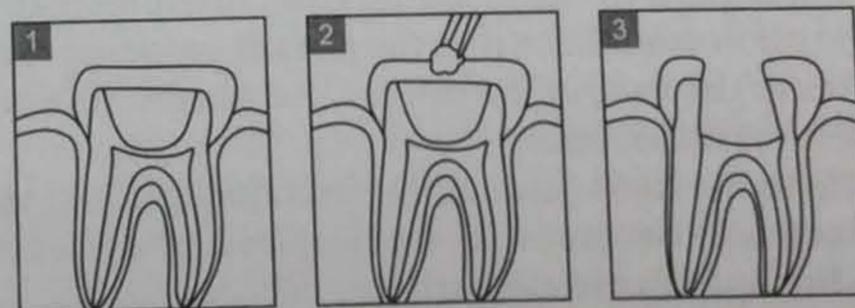


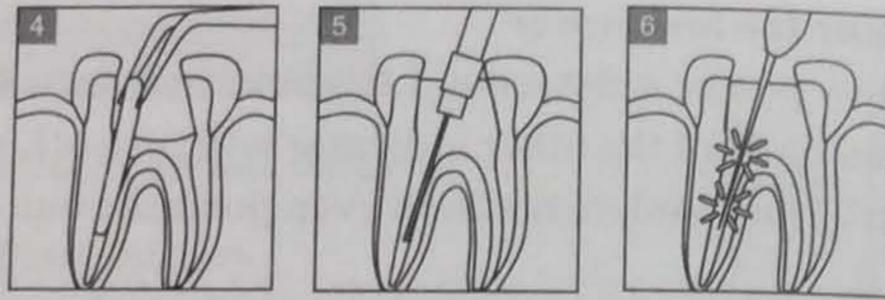
Using light guide rod , caries treatment can be performed.



With sterilize needle, it can treat periodontitis, implant surrounding inflammation and root canal disinfection.

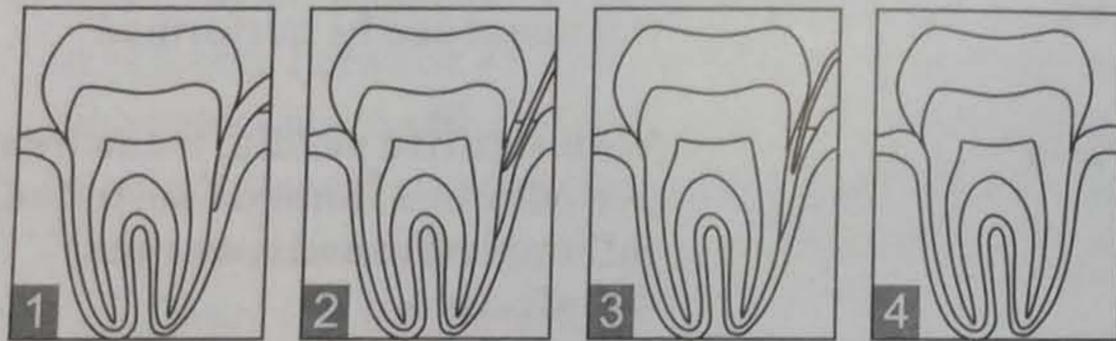
### Root canal disinfection --(Optional function)





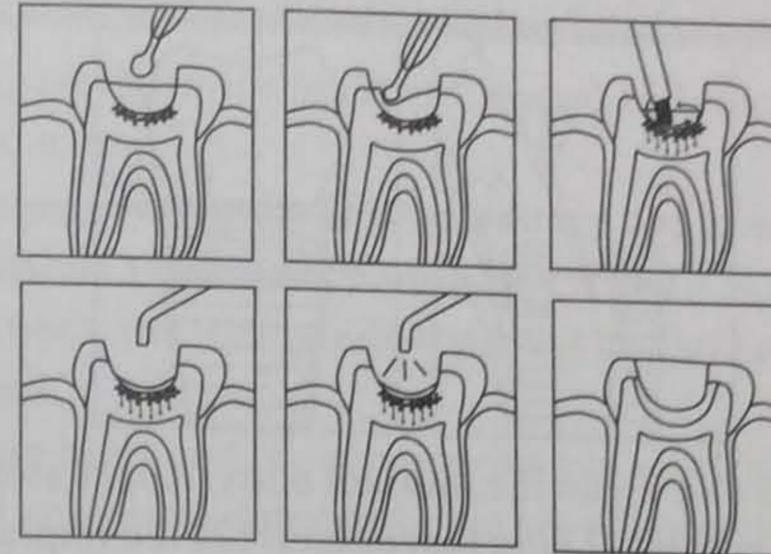
1. Isolate tooth and apply rubber dam.
2. Disinfect tooth and surfaces as normal or with unit as for treating caries.
3. Access pulp chamber and locate entry to root canals as normal.
4. Thoroughly dry canal with paper points.
5. Fill canal and pulp chamber with sterile solution.  
Agitate solution for 60 seconds with a file one size smaller than canal to remove any air bubbles.
6. Activate red light for 120 seconds in each canal.

### The treatment of periodontitis



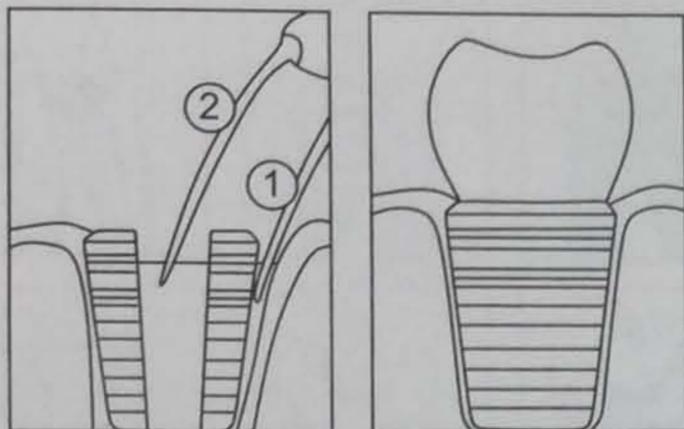
1. Thoroughly debride the site [SRP] using preferred technique.
2. Following control of the bleeding from instrumentation, insert the photosensitizer into the pocket ensuring that it penetrates to the base of the pocket. Retain the solution in the pocket for 60 seconds.
3. Attach tip to the light guide of the unit handpiece. Insert the tip so that it is in contact with the bottom of the pocket. Then activate the light for 60 seconds.
4. Review status after four weeks. The process may be repeated if necessary.

### Caries treatment



1. Isolate from saliva with cotton wool rolls and high speed aspiration or rubber dam. Remove only sufficient enamel to access the carious lesion.
2. With excavator or slow running dental handpiece and round bur, remove only infected tissue. Stop immediately when resistance is felt.
3. Apply sterile solution to the whole lesion with brush. Work into surface of infected tissue and cover the whole cavity. Continue for 60 seconds.
4. Place handpiece tip over the site of the lesion and hold just above the cusps on the occlusal surface of the tooth.
5. --optional extra  
Activate red light for 60 seconds and hold the tip centred on the lesion. Light penetrates through the sterile solution and disinfects the remaining lesion. If two interproximal surfaces are involved, disinfect each surface separately.
6. After disinfection, either; a) fill cavity immediately with suitable restorative. b) before final filling, treat remaining softened tissue with remineralising agent. Note: glass ionomers are particularly appropriate to seal and assist in remineralisation of deep cavities.

## Implant surrounding inflammation



1. Mechanically clean the implant body. Apply sterile solution liberally around (1) and throughout (2) the implant. Leave for 60 seconds and activate the red light (optional function) for 120 seconds.
2. If necessary, augmentation can be done during the same session. The unit may be used prior to implant placement to disinfect the prepared site.

## Charge

1. Please connect the corresponded power source, the indicator of the adaptor will turn on. Then put the unit into the charging base.
2. Continue charging for more than 4 hours (8 hours is required at the first time). To avoid the inconvenience from running out of power, please keep the unit under recharging.

### Note:

- 1) Put the unit into a connected charging base, the indicator on charging base will turn red, it means the battery is charging.
- 2) After finishing the charge, the indicator on charging base will turn green, the unit will automatically stop charging.

## Routine maintenance and cleaning

1. We suggest the unit should be cleaned and sterilized before the first using.
2. When clean the handle and the battery, the handle and the base must be separated completely. When it is used for next patient, the light guide rod must be cleaned and sterilized.
3. The main body and the accessories can be cleaned with alcohol or neutral detergent, it is not allowed to use caustic or rubbing detergent, and no ultrasonic cleaning.
4. The light guide rod can be cleaned with alcohol, or can be sterilized for 3 minutes in the condition: 135°C.
5. Please put the handle on the charging base if cease working for a short time, but if long time not use, please take out the light guide rod and battery, save them in a good condition.

## Storage and transportation

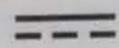
1. This equipment should be moved carefully away from the shock, and install or keep in the place that is try and cool.
2. Avoid being stored with the poisonous, corrosive, flammable, explosive products.
3. During the transportation, shock and impact should be avoided, and lift safety.



## Symbols and definition



Class II equipment(Adaptor)



Direct current



Type B equipment



Caution! Please read the instruction



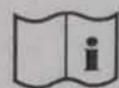
Used indoor only



CE marked product



WEEE



Please refer to the instructions