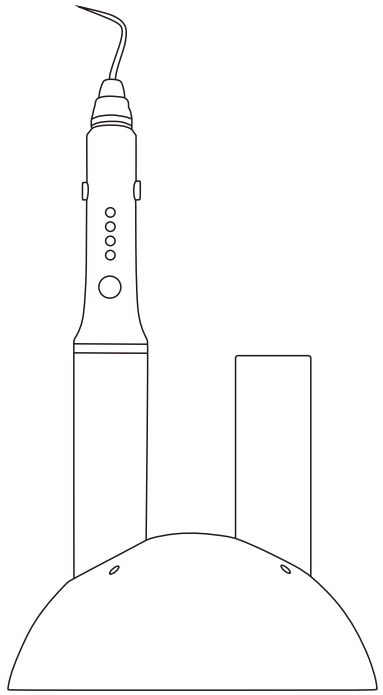
Endodontic Obturation Systems

USERS GUIDE

C-Fill

α pack



Ver2.7 Revision Date: 2024-08-01 AE0740

CE 0197

Safety Caution

CAUTION: Please read the following information completely before use this product.

1.Never use any other battery except the original battery; otherwise it will result in severe damage.

2.Please use our accessories, such as: Pen tips, adaptor, and batteries.

3.The temperature of tip is very high during the surgery, in order to prevent from being burned, please avoid it directly contact to the oral soft tissue.

4.Please keep the product clean.

5.Don't use the device to the patient who has heart pacemaker with him.

Standard Configuration

Obturation pen	1
Charging base	1
Adaptor	1
Batteries	2
Wrench	1
Pen tips (4 pcs)	1

Pen tip size/taper

F: #45/02 FM: #50/04 M: #55/06 ML: #55/08

Intended Use

The obturation pen support the vertical compaction of gutta percha for the root canal (mainly is the apical parts) filling.
It is intended exclusively for use by trained dentist and use only in clinic or laboratory.

Warranty

The warranty of this equipment is 2 years, batteries and adaptor are 6 months, other accessories are not included in the warranty.

Technical Specifications

Adaptor:	input: 100~240V / 50~60Hz output:DC 5V, 1.5A
Battery:	DC3.7V/2800mAh
Operating Temperature:	+5℃ – +40℃
Humidity:	20%RH - 80%RH
Atmospheric pressure:	86kPa - 106kPa

Symbol Definition

Direct Current

Caution

This Way Up

Class II Equipment

Type B Applied Part

Used indoor only

Manufacturer

European Union agent

CE 0197 CE Marking

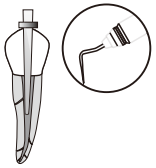
Fragile

Keep Dry

Refer to Instruction Manual/Booklet

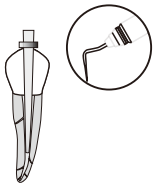
WEEE Directive Marking

⑨ **Heating & insertion**



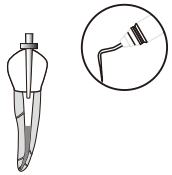
Heat and insert pen tip with gutta percha to 4~6mm short of the working length.

⑩ **Compaction**



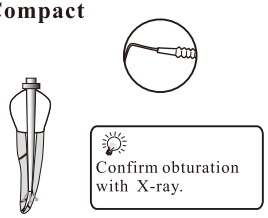
Stop the heating and maintain the pressure about 10 seconds.

⑪ **Removal of pen tip**



Removal after heating the pen tip for 1~2s to avoid gutta percha come out with pen tip.

⑫ **Compact**



Compact the warmed gutta percha with plugger.

Troubleshooting

1.If pen tip can't work properly, please check if the installation is reliable, otherwise, please change a new pen tip.

2.If the LED indicators on charging base are off during the charging , please check it if the charging base is well connected to the power source.

Cleaning and Sterilization

-Surfaces can be cleaned with soft towel and a mild detergent or rubbing alcohol.
-It is recommended that the pen tip be changed after each patient and when damage is detected or suspected. Discard used needles in biohazard container.
-The needle and the thermal protector must be sterilized before first use and between patients, autoclave at 121℃ for 15 minutes or 135℃ for 4 minutes.

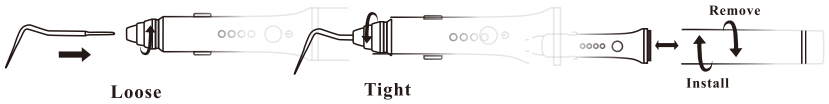
Storage and Transportation

-Storage temperature: -10℃ ~ +55℃
-Humidity: ≤93%RH
-Atmospheric pressure : 50kPa - 106kPa

Construction and Installation

This product is consisted of pen tip, obturation Pen ,battery, charging base and adaptor.

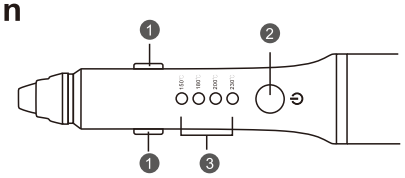
Installation of pen tip and battery



Warning:
Keep the unit shut down before the pen tips installed.

Usage

Function



❶ **Heating button** ❷ **Power button** ❸ **Mode indicators**

1.Hold the power button ❷ for more than 2S to turn on the unit, indicators will turn on; hold it again for more than 2S to turn off the unit.

2. Short press power button ❷ can switch between 150˚C, 180˚C,200˚C, 230˚C temperature mode.

Notice

⚠ **If a large amount of gutta-percha is used, raise the temperature setting to 230˚C.**

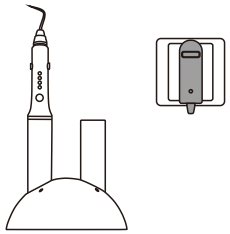
3. Hold one of (both of)the heating buttons ❶ to heat the tip, a beep will come out from the unit at the same time; release the heating buttons ❶ to stop the heating and the beep, only 3s can the tip reach the working temperature.

Usage notices

1.To avoid the overheating, the device will stop and into the protection mode automatically after heating over 30s. To continue the heating, release the button during the protection mode and press the button again.

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

Charge



1. If the unit is under low voltage, all the LED indicators will flash at the same time, and alarms, then the unit will automatically shut down, and the battery should be charged by the charging base.

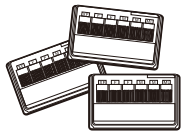
2.The charging base can be available for two batteries at the same time. When it connect to the power source, the LED indicator on the adaptor will be turned on.

3. In the process of charging, the indicators on charging base will display yellow; after finishing the charge, it will turn green and the system will automatically stop charging.

4.The unit should be continuous charging more than 4.5 hours from low voltage to full charge.

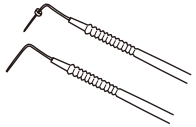
Clinical Use

① Preparation-gutta percha point

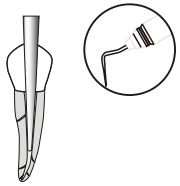


② Preparation-hand plugger

Prepare 2~3plugger to compact gutta percha, mark root canal length by rubber stopper.



③ Preparation-pen tip



Select proper pen tip for root canal.

④ Dry root canal



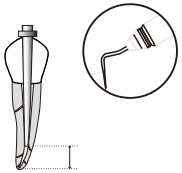
Dry the root canal using paper point.

⑤ Select the gutta percha point



Select a proper gutta percha point that matches the root canal to check it makes a tug back.

⑥ Mark the length of pen tip



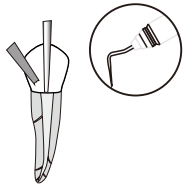
Select a proper pen tip and proper plugger, the length of tip should be 4-6mm shorter than working length, then mark a length by rubber stopper.

⑦ Insert gutta percha point



Coat 3mm from the tip with sealer, insert it to root canal with pumping action.

⑧ Removal of excess gutta percha



Cut the excess gutta percha by pen tip.