

# USER'S MANUAL

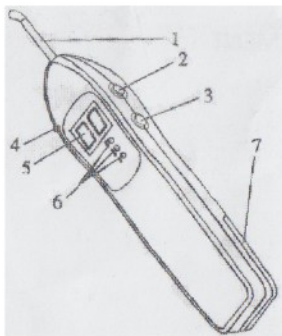
## PUIP TESRER



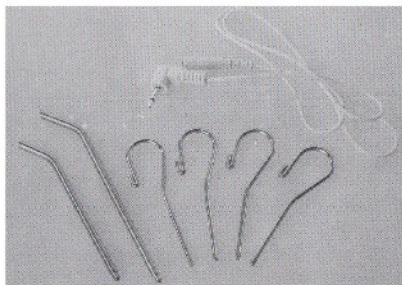
## I. DESCRIPTION

Pulp Tester is a device to examine the vitality of dental pulp using the electrical stimulation. During the pulp test, the current stimulates intradental nerve, and give severe pain to patients. Some studies were accomplished to measure the responses of subjects by stimulating over the sensory threshold to determine whether the nerve of pulp in the tooth remains alive So It can accurately read the pulp' s livingness in a very highly efficiency way.

## II. COMPONENTS AND FEATURES



- |                      |                    |
|----------------------|--------------------|
| 1. Test electrode    | 2. Power switch    |
| 3. Speed mode switch | 4. Cable socket    |
| 5. LCD screen        | 6. Light indicator |
| 7. Battery cover     |                    |



### Standard Accessories

Test electrode 2 pcs

Test cable 1 pc

Stainless hook 4 pcs

### Features

- Preset speed mode (high-mid-low speed)

A gentle, pulsed stimulus begins to increase at a rate of high-mid-low speed

- specifically designed for patient comfort

If the patient indicates perception, simply release the button. The stimulus stops immediately, but the numbers remain frozen on the face for about 3 minutes.

- Convenient to operate

Peak of stimulus current reaction numerical value---80.

Between 0-40, the patient feels ache and anesthesia, it means alive teeth nerve

Between 40-80, with above-mentioned reaction, it means part of teeth nerve dead

80, no above-mentioned reaction, dead teeth nerve

- The device turns itself off three minutes later after operation (No wasted batteries.)

### III. SPECIFICATIONS AND EQUIPMENT CLASS

a). Battery-operated

Output voltage: 9.0V DC

Output current: 90mA

b). Equipment class: Class II (Medical Appliance Classification Catalog)

c). Protection from ingress of liquids: None

f). Protection from ingress of liquids: None

g). Using environment: Equipment not suitable for use in the presence of a flammable anesthetic mixture with air or nitrous oxide.

### IV. OPERATION

1. Make the test wire link with the cable socket of the unit; afterwards insert the stainless hook and the test electrode into the interface of the unit

2. Strictly separate the tooth which will be measured from the saliva, blow the surface of the tooth until it is dry, so as to forbid the stimulation electric current to

conduct from the gum, or else there will appear a false stimulus current. You have to particularly pay attention to the near joint's dryness, for forbidding the current there will appear a false stimulation current signal.

3. Hang the stainless hook on any side of the mouth, then select different speed mode (different speed:high means high speed, mid means middle speed, low means low speed)

4. Paste a spot of conducting glue or toothpaste on the contact interface (1/3 slice side) between test electrode and selected tooth.

Then press the power switch.

Then lay the test electrode on the on the surface of selected tooth. Adterwards, the unit will be activated and simultaneously the figure keeps rising on the screen.

5. When the patient slightly feels toothache, or anesthesia, you should take the test electrode away from the footh and observe the figure on the screen in order to record it; this figure is the tooth's stimulation current reaction number.

6. Peak of stimulus current reaction numerical valueis 80. Between0-40, the patient who has the reaction ofache and anesthesia, the dentidt can be sure that thenerve is still alive. Only the numerical value go up to40-80,the patient has the above-mentioned reaction,the dentist can be sure that part of the teeth nerve hasbeen dead! When the numerical value has reached 80,but the tooth gas no above-mentioned reaction, thissnows the nerve has already been dead!

7. After operation, the measurind result remainsfrozen on the surface of LCD screen for 3 minutes andthen the unit eill switch off antomatically.

\* After switch the machine on, while the displayscreen shows LO,its means the battery needs to becharged.

## VI. MAINTENANCE

1. This unit can be dismantled privately; otherwise the unit will be damaged wholly.

2. Please use the original charger, any other charger may result in the damage of the battery and the controlled electric circuit; even the machine will be greatly damaged.

3. After using this unit, the dental professionals must cover the machine with sterilized sheet.

4. The unit should be scrubbed by pure water or ethanol and follow the standard disinfection procedure to disinfect the materials. The pulp tester should be placed in the original packing box in a dry and clean cupboard, in case of its drop onto the floor.

## VIII. STORAGE & TRANSPORT ENVIRONMENT:

Ambient temperature:  $-40^{\circ}\text{C} \sim +55^{\circ}\text{C}$

Relative humidity range:  $10\% \sim 90\%$

Atospheric pressure:  $500\text{Pa} \sim 1060\text{hPa}$

Handle with care.