

Ai-Pex

APEX LOCATOR WITH PULP TESTER

Technology — Contributor to easier treatment
Can be connected to an Endo Motor



CONSTANT CURRENT SOURCE

Electric pulp testing

MAGNETIC ADSORPTION

Unique base design

ANTI-INTERFERENCE

Multi-frequency

DSP technology



MAGNETIC ADSORPTION BASE

360° rotatable

The viewing angle of the screen
can be adjusted,
no backlighting.



LARGE COLOR SCREEN

3.8 inch LCD touch screen

Four-color display operation interface

It is clinically recommended to make the measurement to the 0.0 position and then manually subtract 0.5~1mm to obtain the final working length.

SOUND RECOGNITION

Enable easier measurement.

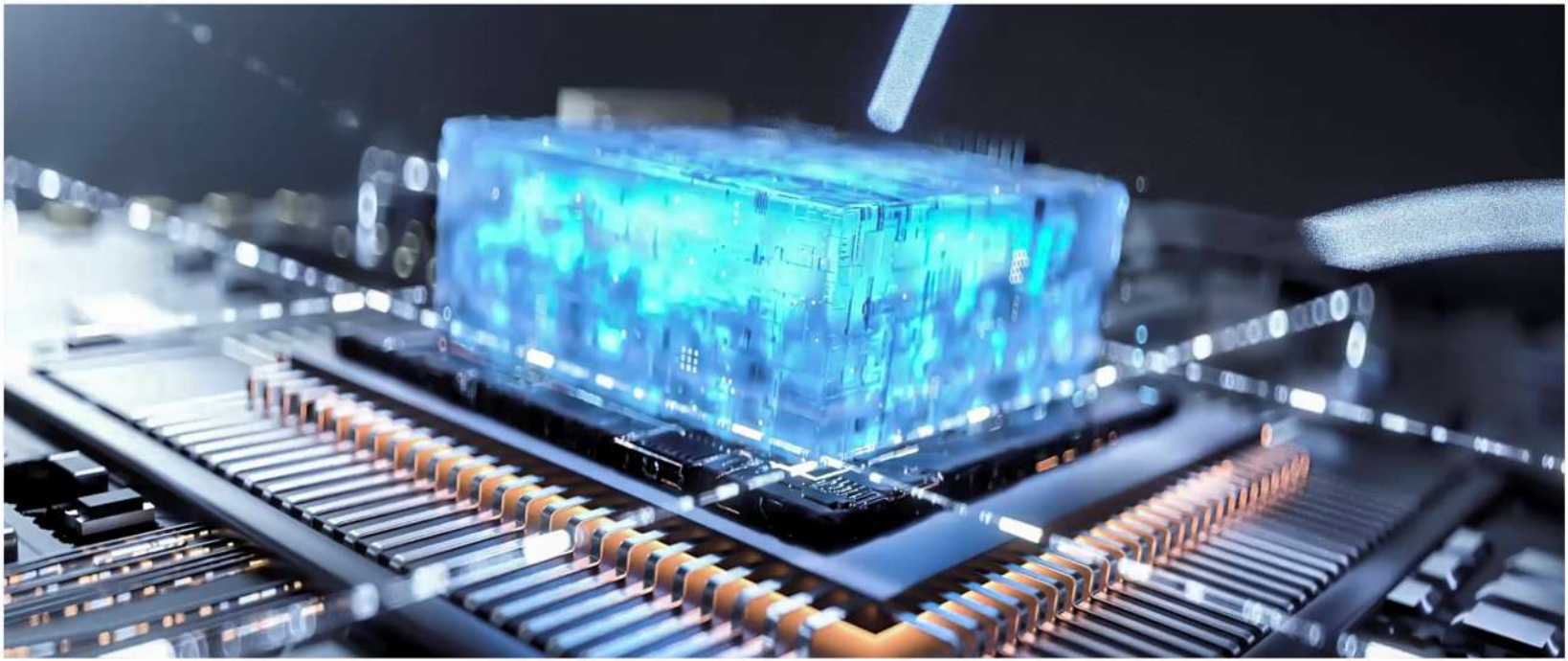
When the length indicator bar reaches a digital number below 1.5, the machine intermittently emits low-frequency beeps.

The closer the tip is to the apical foramen, the quicker the sound is.

When the tip reaches the apical stop, the machine emits continuous high-frequency beeps.

The sound level can be adjusted as you wish.





ROOT CANAL LENGTH MEASUREMENT

Auto calibration after startup

New digital circuit

U.S. central processing chip with DSP processing module

0.1% high precision components

Information processing speed increased by 2.125 times

ENABLE WORKING LENGTH CONTROL DURING PREPARATION WHEN CONNECTED TO AN ENDO MOTOR

Connecting the Ai-pex to an Endo Motor that can be connected to Apex Locator allows real-time observation of the position of the file in the root canal during operation and activates many automatic functions (e.g. Auto Reverse).





ACCURATE MEASUREMENT OF ROOT CANAL LENGTH

Lowered environment requirements for root canal length measurement
Suitable for various complex root canals
Unaffected by blood and residual pulp, whether the root canal is dry or wet, it can automatically and precisely determine the position of apical foramen.

CONSTANT CURRENT SOURCE ELECTRIC PULP TESTING

When the clinical need to determine the vitality of the pulp arises an electric pulp tester is a useful adjunct. Thermal tests are not always sufficient to stimulate neural tissues in the coronal aspect of the pulpal tissue.

CONSTANT CURRENT ENABLES MORE ACCURATE MEASUREMENT

There are two types of electric pulp testers: constant current type and constant voltage type. The constant current type always keeps the current constant during the test; while the constant voltage type always keeps the voltage constant.

Constant-current electric pulp testers are superior to constant-voltage ones in terms of accuracy in determining pulpal viability and in correlating test values with histopathological classification.



BRIEF INTRODUCTION OF ICONS IN ELECTRIC PULP TESTING FUNCTION (PT MODE)

4 working modes: 6.2s to reach the maximum pulse intensity at the quickest speed





HOW TO USE THE PULP VITALITY TEST FUNCTION:

- ① Long press the function button to switch to PT mode
- ② Press the speed button to adjust to the suitable working mode
- ③ Connect lip hook and probe
- ④ Coat the head of probe with a layer of conductive agent (toothpaste, etc.)
- ⑤ Place the probe at the 1/3 position of the tooth neck.
Test the tooth and its adjacent tooth separately and compare the values when the patient feels tingling.
- ⑥ Determine the pulp vitality based on comparative numerical analysis

CONFIGURATION

Not autoclavable

Measuring wire (Soft texture, Long service life)

Autoclavable

File clip × 4 (Coated with biological silica gel)

Lip hook × 5 (Made of medical-grade stainless steel)

Apex locator probe × 2

Pulp vitality probe × 2



TWO PROBES IN DIFFERENT SIZES DELIVERS MORE CONVENIENT OPERATION.

The large 2.6 mm diameter probe can be used on teeth with unexposed pulp and placed at 1/3 of tooth neck for testing.

The small 0.5 mm diameter probe can be used on teeth with unexposed pulp and placed in the crown for testing, or on pulp-exposed teeth and placed at 1/3 of tooth neck for testing.





THE MAIN TECHNICAL SPECIFICATIONS

Working time: 5h20min

Charging time: 3h

Battery: 3.7V/2000mAh

Input: ~100V-240V 50Hz/60Hz 0.4A

Consumption power: $\leq 0.5W$

Screen: 3.8-inch LCD screen

OPERATION CONDITION

Environment temperature: $+5^{\circ}C \sim +40^{\circ}C$

Relative humidity: 30%~75%

Atmosphere pressure: 70kPa~106kPa