

# OSADA APIT11

OSADA ELECTRIC CO.,LTD.

## SPECIFICATIONS

PRODUCT: **OSADA APIT 11** CODE NO.: **5042** MODEL: **EM-S11**

- GENERAL NAME : Apex Locator
- POWER SOURCE : 1) Power Voltage: DC6V (4 pcs. of AA alkaline dry batteries) Power Input: 15mA  
2) Power Voltage: DC4.8V (4 pcs. of AA rechargeable Nickel Metal Hydride batteries) Power Input: 20mA
- DIMENSIONS : W100 X D79 XH101mm
- WEIGHT : 420g (excluding batteries)
- APPROVAL NUMBER : 223AHBZX00006000
- CLASSIFICATION: Internally powered equipment Type BF applied part

※SUBJECT TO CHANGES IN SPECIFICATIONS AND/OR DESIGNS, WITHOUT PRIOR NOTICE.



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March 9, 2012

Stylish Body and High Performance



**OSADA APIT11**  
DENTAL APEX LOCATOR

OSADA ELECTRIC CO.,LTD.



IN THE CUTE BODY,  
THE ACCURACY AND EASY TO USE USABILITY ARE PACKED IN.  
VERY RELIABLE THOUGH VERY COMPACT.

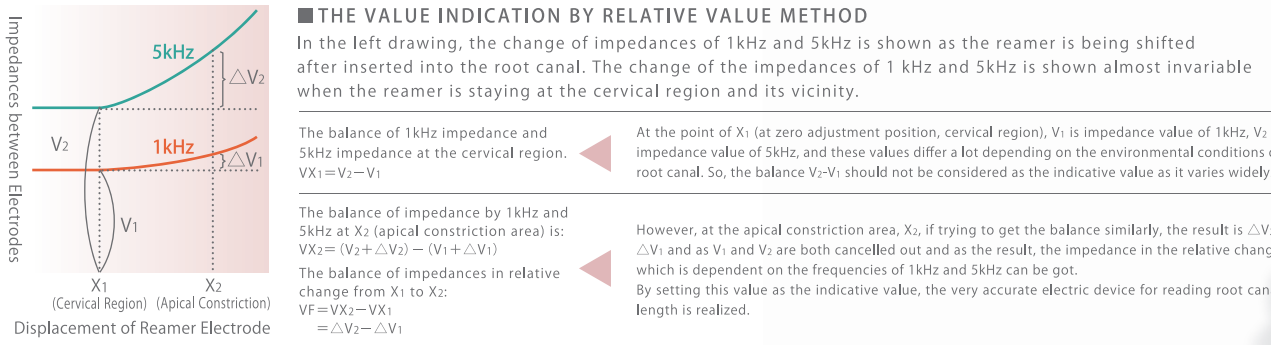


IT'S ABLE TO  
GIVE PRECISE MEASUREMENT.

MEASURING METHOD (EMR BY RELATIVE VALUE METHOD)

The measurement brought out by Apit is from using two different frequencies. The apical constriction (apical foramen) is detected from the value gained from the comparison of the balances of impedances\* by two different frequencies measured at two positions in the root canal, one at anywhere located at the cervical region and another one measured in the same way at the apical constriction region shifted down from the cervical position.

\*Impedance≒Resistance in the root canal    \*Impedance has the dependency on frequency.



- THE SECRET OF THE ACCURACY
- ①The balance of impedances derived from two different frequencies is in comparison.
  - ②For each of every root canal, zero adjustment can be set. The individually different conditions of root canal, tooth structure, periodontal tissues are taken into consideration and one by one the root length is measured accurately.

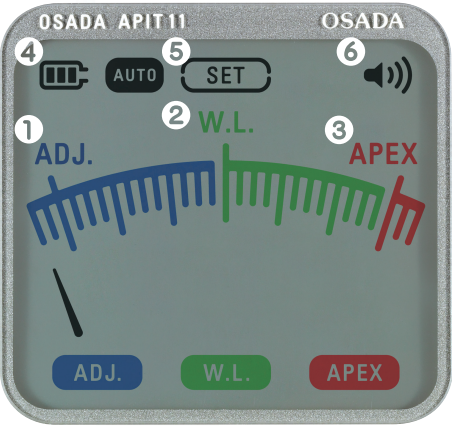
ADJUSTMENT (ADJ.) FUNCTIONS

OSADA APIT 11 has two modes of functions: one is auto (automatic) adjust mode and another is manual adjust mode. The root canal which is difficult to be measured because of the electrical leakage can be measured now by the adjustment switch (ADJ.) being pressed and the increase of the applicable cases for this detective method is widely reported.



LIQUID CRYSTAL COLOR DISPLAY

The liquid crystal color display panel is big and easy to observe. The meter indication on the panel well follows the movement of reamer or K-file which is inserted into the root canal and the sensation of reamer reaching the apex is visually captured. It is easy to see from a distance and the remaining battery power and sound volume, etc., the conditions of the device, can be checked easily.



INDICATIONS ON DISPLAY

- ①ADJ. : Zero Adjustment
- ②W. L. : Apical Foramen(Apical Constriction) = Working Length
- ③APEX: Root Apex
- ④Remaining Battery Power
- ⑤Adjustment Mode
- ⑥Buzzer Sound Volume

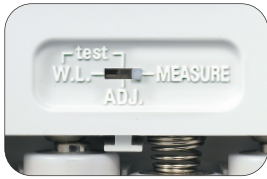
ENVIRONMENTALLY-FRIENDLY

The life of alkaline battery has been improved (max. usable time is150 hours)\*, and no need of exchanging so often as before. Rechargeable nickel hydride battery can be also used for OSADA APIT 11 (max. 100 hours usable after once charged) and can be used repeatedly. \*(in comparison with our conventional model)

OSADA APIT11

SECURE AND SAFE TREATMENT

The power current used for the measurement is very weak, less than 2μA, and can give safe treatment without giving any pain or scary feelings to patients. The checker function of the device is incorporated in the body itself. By checking-up the function regularly the safe measurement can be practiced.



EASY TO USE  
THE FILE HOLDER

For using it for molar teeth, the file holder of the file holder cord has been made longer by 10mm and full length now is 50mm. The top end of the file holder is so thin as 0.5mm and the file length can be utilized fully till its maximum.

\*(in comparison with our conventional model)



COLOR VARIATION

Four (4) colors, Marine Navy, Frost Gray, Cloud Blue and Bloom Pink are ready for the choice. Please select one which suits the atmosphere of the clinic or according to your liking.



AUTO-WINDING MODULE

By depressing the button once, the probe cord can be recoiled automatically and retracted into the body.

