



# Root ZX<sup>®</sup> II OTR Module



Thinking ahead. Focused on life.

## OTR Module Revolutionary Canal Preparation Technology

## OTR Technology – A Safer Way to Clean and Enlarge Canals

The Root ZX II Low Speed Handpiece with OTR technology prepares root canals while displaying precise and accurate measurements. During file rotation, the torque is automatically measured. If the torque is less than the set value, the file rotation continues, but if the torque has reached the set value, the file reverses rotation by 90° and then continues in the cutting direction once again. OTR reduces file fatigue, as well as the possibility of file breakage.

Lightweight, the handpiece is ergonomically designed to minimize fatigue and fingertip stress and is ideal for endodontic access. It offers 3 speed settings of 100, 300 and 500 rpm and 3 programmable memory modes. The module also offers operation in Normal Mode without the Optimum Torque Reverse function. In Normal Mode, 8 speed settings from 150 rpm to 800 rpm and 11 torque settings are available. This mode is useful for opening the upper part of the canal.





The New Movement in Endodontics

## Features at a Glance

- Safely & efficiently clean & enlarge canals with OTR technology
- Standard Ni-Ti file can be used no need for special files
- New contra head has internal file electrode
- OTR Module can be connected to any Root ZX II

## **6 Automatic Safety Features**

### **OTR Technology**

When the torque setting is reached, the file auto reverses 90° then continues again in the cutting direction. OTR reduces file fatigue, as well as the possibility of file breakage.

## Auto Motor Start/Stop

No foot switch required. Motor starts when file is inserted into the canal and stops when it is withdrawn.

### **Auto Torque Reverse**

Reduced file breakage. File stops and reverses if the torque goes over the set torque limit. There are 11 torque settings.

### Auto Torque Slow Down

Reduced file breakage. File slows down as the torque approaches the set torque limit.

### **Auto Apical Reverse**

File stops and reverses when it reaches the end of the set working length.

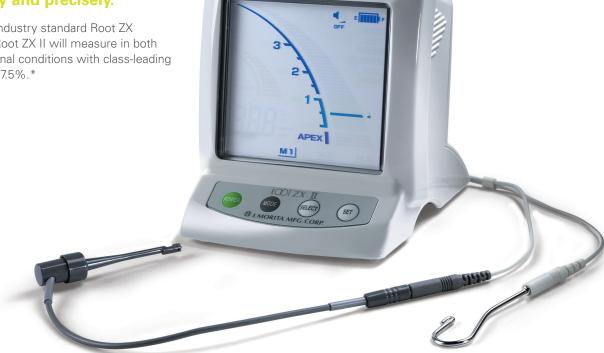
## Auto Apical Slow Down

File slows down as it approaches the end of the set working length, ensuring safe and accurate preparations.

## Root ZX II – Apex Locator World's Best Selling Unit



Built on the industry standard Root ZX technology, Root ZX II will measure in both wet or dry canal conditions with class-leading accuracy of 97.5%.\*



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## Accurate Measurement

The ratio technique used in the instrument provides a highly accurate detection of the file's location. The accuracy of the measurement is not affected by the presence or absence of blood, other discharges, electrolytes, saline, tap water, or hydrogen peroxide.

### No Zero-Adjustment

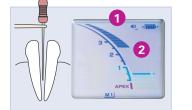
It is not necessary to set the device on zero before measuring each individual canal.

### Automatic Calibration

Automatic calibration ensures accuracy and eliminates the effect of changes in temperature, moisture, etc. inside the canal, even during treatment.

## Large Color Liquid Crystal Display (LCD)

The large color LCD screen is easy to read and provides a clear progressive display with high contrast.







- Large Color LCD 1
- File Position / Canal 2 Length Indicator Bar
- 3 Adjustable Pre-position Bar/Apical Line
- Green indicators 4 illuminate when the file is approaching the apical constriction

## Specifications & Ordering Information

#### Root ZX II – Apex Locator



Rating: DC 4.5 V Power Consumption: 0.135 VA Size: W x D x H 4.13" x 4.13" x 4.53" (105 x 105 x 115 mm) Weight: approx. 13.05 oz. (370 g)

Unit Includes: Root ZX II Apex locator Module, Probe Cord, File Holders (3), Contrary Electrodes (lip clips) (5), Function Tester, AA Alkali Batteries (3)

#### **OTR Module – Low Speed Handpiece**



Power Consumption: 1.92 VA Charger: Rapid Charge Type Size: W x D x H 4.13" x 5.00" x 4.53" (105 x 127 x 115 mm) Weight: approx. 10.58 oz. (300 g)

Unit Includes: Micromotor, Contra Angle, Handpiece Cord, Handpiece Rest, AR Oil, AC Adapter, Battery (pre-installed), Foot Switch, Handpiece Plastic Sleeves (20)



 Root ZX II – Apex Locator
 24-5336392

 Probe Cord (Root ZX II)
 24-7503661

 File Holders (5)
 24-107042

 Contrary Electrodes (Lip Clips) (5)
 24-107043

 Long File Holder
 24-8447047

 Function Tester
 24-7503910

OTR Module – Low Speed Handpiece	24-5361257
Micromotor (TR800)	24-7503950
Contra Head	24-8491895
Handpiece Cord	24-7503960
Handpiece Rest	24-7503965
File Electrode (Internal type)	24-8491887
File Electrode (External type)	24-8491879
AC Adapter	24-7504060
Foot Switch	24-7504015
Battery	24-7504010
AR Oil (60ml)	24-7503800
Handpiece Plastic Sleeves (500)	24-541050

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