

# Dentaport ZX



Thinking ahead. Focused on life.



The New Movement  
in Endodontics

# OTR Module

## Revolutionary Canal Preparation Technology

### New OTR Function

Safer and easier canal preparation with precise torque control and canal measurement.



The new OTR (optimum torque reverse) module safely and efficiently cleans and enlarges canals. It reduces file binding and breakage by employing precise torque reverse control. This module is exceptionally good at following the contours of curved canals and minimizes the creation of ledges and perforations.

The new OTR module can easily be attached to the current Dentaport canal measurement module, which allows the clinician to measure the canal during preparation.



### More Efficient than Ordinary Torque Reverse

When the torque applied to the file exceeds the set limit, the file instantly reverses 90 degrees and then rotates forward at least 180 degrees. The torque level that triggers the reverse rotation can be set much lower than the previous model at 20g, 40g, 60g, or 100g. A low torque reverse setting improves patient safety as it allows the file to follow the canal curvature much more accurately, reducing the risk of file binding and breakage.

Additionally, with a reverse angle of only 90 degrees, the clinician is able to continue to work efficiently without bothersome interruption.

## Multiple Automatic Functions

The Dentaport OTR module for canal preparation has six automatic functions for safer and more efficient endodontic treatment. The three most commonly used combinations of automatic functions can also be preset.

Accurate preparation

### **Auto Apical Reverse or Stop**

File stops and reverses when it reaches the end of the set working length. The working length can also be set manually and the interval between stopping and reversing can be adjusted.

Reduced file breakage

### **Auto Torque Reverse**

File stops and reverses if the torque goes over the set torque limit. With 11 torque limit options, Dentaport ZX is ideal for all current rotary NiTi file systems.

Precise control

### **Auto Apical Slow Down**

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

Reduced file breakage

### **Auto Torque Slow Down**

File slows down as the torque approaches the set torque limit.

No foot switch required

### **Auto Motor Start and Stop**

Motor starts when file is inserted into the canal and stops when it is withdrawn.

# Contra Head With Compact Convenient Design

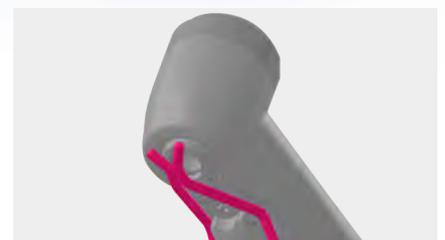


## Compact and Lightweight Handpiece

The compact head can easily reach molar areas. The electrode required for canal measurement is located inside the head; this feature allows for easier replacement of the file and permits usage of the full length of the file. An optional external electrode is also available.



Concealed file electrode



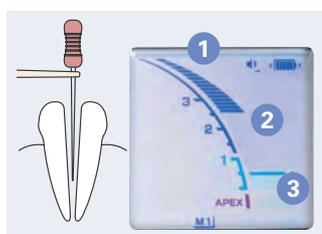
Option: External file electrode

# Dentaport ZX Apex Locator

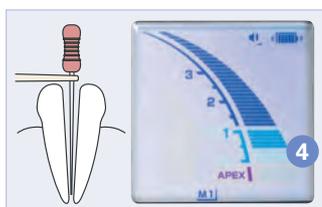
## Industry Standard



The Dentaport apex locator is the core unit of this system. Its functionality can be expanded by attaching various modules. The OTR module provides canal preparation with simultaneous canal measurement. A light cure handpiece module is also available.



- 1 Large Color LCD
- 2 File Position / Canal Length Indicator Bar
- 3 Adjustable Pre-position Bar / Apical Line



- 4 Green indicators illuminate when the file is approaching the apical constriction

### Extremely High Measurement Accuracy

The position of the apex is precisely detected by measuring the impedance of two frequencies inside the canal.

### Automatic and Accurate Measurement for Both Wet and Dry Canals

By calculating the ratio of impedance at two different frequencies, measurements are accurate regardless of the conditions inside the canal.

### Easy to Read Display

The large, high-contrast, color LCD provides the best monitoring of the file tip location.

### Fully Synchronized Meter Reading to The File Movement

Fully synchronized meter reading to the tactile feedback of the file provides the exact location of the file tip for optimum operation.

A beeper also alerts the user of the file tip location as it approaches the apex.

### Adjustable Working Length Line

Set the line that estimates the working length wherever you wish.

# Specifications



Name: Dentaport  
Model: DP-ZX

	1 Dentaport	2 Dentaport OTR Module	3 LED Light Cure Handpiece
			
<b>Specifications</b>	<b>Canal Measurement Module</b> Rating: DC 4.5 V Power Consumption: 0.2 VA Size: W 105 X D 105 X H 115 mm Weight: Approx. 400 g	<b>Dentaport OTR Module</b> Power Consumption: 20 VA Charging Capability: Fast charging type Size: W 105 X D 65 X H 115 mm Weight: Approx. 300 g <b>Handpiece</b> Diameter: 18 mm, maximum Length: 165 mm Weight: Approx. 70 g Speed: 150,200,250,300,400,500,600,800rpm (OTR: 100,300,500rpm) Torque setting: 20g,40g,60g,100g,150g,180g 250g,300g,350g,400g,500g <b>Main Tube</b> (for both preparation and light cure handpieces)	<b>Light Cure Handpiece</b> Diameter: 18 mm, maximum Length: 175 mm Weight: Approx. 60 g  Light power: 1,000mW/cm <sup>2</sup> Timer: 5–40 seconds 5 seconds distance
<b>Accessories</b>	Probe Cord File Holder Contrary Electrode Canal Measurement Tester AAA Alkali Dry Cells	Foot Switch Handpiece Hanger LS Oil AC Adapter (100 V–240 V 50/60 Hz)	Handpiece Hanger Disposable Covers



Development and Manufacturing

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