



ENDO DEVICES



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zApex

zActivator

zEvo

zEvo mini

zDown

zUp



ENDO DEVICES

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LOCALIZATION



ZApex

WIRELESS CHARGE APEX LOCATOR



FEEL THE CHARM OF WIRELESS CHARGING

Lay it down, charge it up.
Charging is as simple as placing the Z-Apex on the charging base.



ACCURACY WITHOUT WIRE

Free yourself from the charging cables.

IRRIGATION



zActivator
CORDLESS IRRIGATION DEVICE



AUTOCLAVABLE
TIPS



SMOOTH SURFACE
FINISH



ULTRASONIC
ACTIVATION
DEVICE



45 kHz HIGH
FREQUENCY



1500 mAh
POWERFUL
LITHIUM BATTERY



LIGHT WEIGHT
& ERGONOMIC



FLEXIBLE TIPS*
*only blue and silver
are flexible tips



MULTIPLE TIPS
OPTIONS



TWO POWER
MODES WITH
LED INDICATOR



CONTRA-ANGLE
DESIGN



CORDLESS
IRRIGATION
DEVICE



4,5 HRS
OF CONTINUOUS
OPERATION

IN ACTION

Cavitation effect

It is the process of formation of millions of gas bubbles in the irrigation solution. These gas bubbles grow in size, oscillate in different directions and explode into the liquid, producing powerful cleaning action.

Acoustic streaming

It is a unidirectional flow of liquid produced by ultrasonic waves. Movement of tip produces special effect called acoustic turbulence which accelerates the movement in liquid inside the root canal.

INDICATION

Smear layer removal

Effective in removal of smear layer and unplugging of dentinal tubules.

Dentin chips removal

Ultrasonic agitation forms suspension of residual dentinal chips and tissue remnants with irrigant and facilitates their easy removal.

Biofilm disruption

Ultrasonic cavitation disrupts the biofilm and helps to reduce bacteria load in the canal.

Cleaning of complex anatomy

Ultrasonic activation helps irrigants to flush into undetected or un-instrumented canal anatomy like isthmus, fins, lateral canals, apical ramification etc. Also helps to remove vapour lock.

Removal of gutta-percha remnants

Eliminates remnants of gutta-percha that remain on the walls when retreatments are carried out.

ENDOMOTORS



zEvo

ENDOMOTOR WITH BUILT-IN APEX LOCATOR





TORQUE CALIBRATION
For precise torque output.



OLED SCREEN
Digital OLED Display.



AMBIDEXTROUS DISPLAY
Screen can be rotated for left or right hand use.



POWERFUL BATTERY
Heavy duty 1500mAh Lithium battery.

APEX LOCATOR

Apical control with rotary instruments

Position of file is displayed on screen and the motor rotates in reverse direction when file reaches pre-set apical working length, to prevent over instrumentation.

Working length measurement

Manual file clip can be used to measure working length precisely with hand files.

Multi frequency technology with high accuracy & precision

Apex locator flash bar with zoom-in function

WORKING MODES

FWD Clockwise continuous rotation.

REV Anti-clockwise continuous rotation.

REC Reciprocation movement.

First-in-class cordless open motor with adjustable angles of rotation ranging from 30° to 370° for reciprocation as per user's need. First-in-class feature of speed adjustment in reciprocation mode.

ATC Adaptive torque control

ATC manages the file stress in a smart way. When torque limit is reached, instead of going into reverse mode, motor reciprocates till the stress is reduced. Once back to below pre-set torque level, file will again rotate in continuous rotation.

INTEGRATED MODE FEATURES

Auto start & stop

Motor starts working when the file enters inside root canal, and stops when withdrawn.

Reverse movement in preset apical point

When the file reaches pre-set apical reverse point, user can define whether the file starts moving in reverse direction.

Apical slow down

To preserve the cemento-dentinal junction and avoid file separation, speed of motor slows down when file is in apical region.

Specifications

Rotational speed range	120 - 1000 rpm
Torque range	0.5 - 4.0 N•cm
Memory programs	11 (M0 - M10)
Battery capacity	1500 mAh

ENDOMOTORS



zEvo mini

SMALLER, LIGHTER AND QUIETER THAN EVER



360° CONTRA-ANGLE
ROTATION



SLIM AND COMPACT
DESIGN FOR MAXIMUM
COMFORT AND MOBILITY



MINIATURE CONTRA-ANGLE
FOR BETTER VISIBILITY &
EASIER POSTERIOR ACCESS



RECIPROCATION
FUNCTION



BUILT-IN FILE SYSTEM

Innovative motor

Cutting down the noise from inside,
allowing you to experience tranquility.

Light weight

Less than 100 grams, reducing hand fatigue
during treatment.

Specifications

Model	Z-Evo mini
Weight (grams)	99 g
Torque range	0.5 N•cm - 4.0 N•cm
Power supply	100 V - 240 V
Frequency	50 Hz/60 Hz
Output	DC 5 V/1 A

THERMOPLASTIC OBTURATION



zDown
OBTURATION PACK HANDPIECE



TEMPERATURE RANGE

- Wide temperature range of 90° to 250°
- Five memory programs to customize temperature and cut-off time as per obturation material used or any other intended use of the device.



INTERNALLY HEATED TIP

- Only the working end (4 - 6 mm) of the tip is heated - avoids need for insulating sleeves.
- The non-working end is insulated and stays cool avoiding soft tissue burn.



CLASS-LEADING CONTROLLED HEATING

- Fast heating - Quick heating prevents PDL damage.
- Swift cooling - Swift cooling ensure GP does not follow along the heating tip.



EXPERIENCE ERGONOMICS

- 360° start/top ring button allows holding the device in any angle comfortable for you.
- Left - right handed operation.
- Comfortable grip, light in weight.



POWERFUL BATTERY

- Highly efficient 2600 mAh Lithium battery.
- Direct Plug & Play - In case of low battery, use the device directly with adaptor.

Specifications

Heating time	0.2 seconds for 200°C 0.5 seconds for 250°C
Cooling time	2 seconds for cooling
Charging time	2 hours to complete charge
Operating time	4 hours of continuous operation at 250°C



Small (black)
40/0.025
1 Qty



Medium (yellow)
50/0.05
1 Qty



Large (blue)
60/0.06
1 Qty

THERMOPLASTIC OBTURATION



zUp

CORONAL THIRD FILLING HANDPIECE

PROTOCOL FOR USE

Master cone verification & resizing

Select a master cone which corresponds to the master apical preparation. Check for tug-back and confirm the same with radiograph. Resize the GP by cutting it to 0.5 to 1 mm short of the working length. This will prevent peri-apical extrusion of the GP.

Selection of Z-Down & plugger tip

Select the Z-Down tip which reaches 4-5 mm short of the working length and give a snug fit at the tip. Mark this length using the silicon stopper. Similarly, select the hand plugger which reaches 4-5 mm short of the working length.

Gutta Percha & sealer

Coat the master cone apically with the sealer and insert it into the canal. Brush the canal wall using strokes of GP and sealer.

Down Pack with Z-Down

Remove the GP from the orifice/coronal part with the help of heated Z-Down tip. Plug the GP cone with pre-fit hand plugger at the orifice. Now take the heated Z-Down tip 4-5 mm short of the working length. The bite of the GP will come out of the canal along with the tip. Heated Z-Down tip will transfer heat to the GP and convert it into thermoplastic state. Condense the GP with the help of hand plugger to ensure the complete sealing of accessory canals and apex.

Fill with Z-Up

Filling the canal using the Z-Up device in increments of 4 mm till the canal is filled completely while condensing the warm GP with the appropriate plugger after each increment.



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