

Working Length Determination



Endo-Eze™ FIND®
APEX LOCATOR



- Convenient, easy-to-read display has unsurpassed accuracy
- Multifrequency measurements are fully automatic
- Compact design with small footprint fits easily on a counter or treatment tray

The FIND apex locator is a battery-operated portable device designed to locate the foramen and determine the working length during root canal treatments. Using a multifrequency-dependent impedance method and a series of proprietary algorithms, the FIND apex locator accurately determines the position of the apical anatomical foramen.

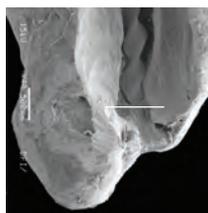
Uses

Utilizing the advantages of its well-proven technology, the FIND apex locator offers the clinician unsurpassed accuracy, unrivaled reliability, and an extremely user-friendly interface. The custom color graphic display of the unit helps to achieve the optimal endodontic performance required during every root canal treatment.

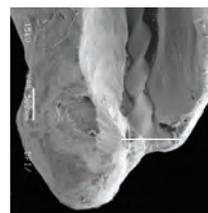
The Effect of Overinstrumentation

Research has shown that instrumentation beyond the apical foramen is a widespread problem, occurring in over half (51%) of the premolars and nearly a quarter (22%) of the molars evaluated in a study.² When a file extends beyond the apical foramen and enters the periapical tissues, pain and swelling can occur, resulting in emergency appointments and additional costs for you and the patient. The FIND apex locator helps to avoid overinstrumentation by providing accurate and reliable measurements to notify you when you've reached the ideal working length.

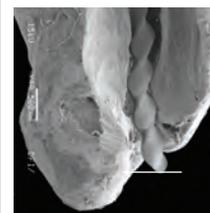
FILE 0.5 mm SHORT OF FORAMEN



FILE AT FORAMEN



FILE OVER FORAMEN



1. realityesthetics.com. 2. ElAyouti A, Weiger R, Löst C. Frequency of overinstrumentation with an acceptable radiographic working length. *J Endod.* 2001;27(1):49-52.

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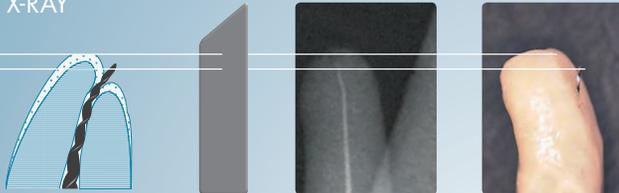
X-Ray vs. the FIND® Apex Locator

The success of any root canal treatment depends on accuracy. The most widely used method for determining the apical limit is the radiograph, but, unfortunately, it's not the most accurate. If the film isn't positioned exactly, if the angle of the X-ray beam isn't precise, or if there are interferences from equipment or anatomical structures, the reliability of the radiograph suffers. Not to mention that the location of the anatomical apical foramen is not always the same as the location of radiographical apex.

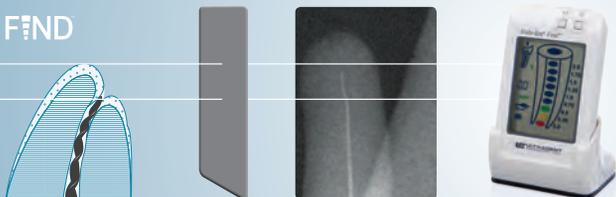
By sending an electronic signal all the way to the tip of the file, the FIND apex locator lets you know when you've reached the anatomical apical foramen, eliminating the risk of overinstrumentation beyond the apex into the periapical tissues.

A study published in the *Journal of Endodontics*² evaluating 338 radiographs showed the file extending past the foramen—even when the radiograph showed it short of or at the foramen—an average of 24.5% of the time.

X-RAY



FIND



An X-ray is a bidimensional picture of projected shadows. Depending on the apical foramen position, the top of the endodontic file could be beyond the foramen and the X-ray image shows short of the apex.

3362 Endo-Eze FIND Apex Locator Kit

- 1 x FIND unit
- 1 x Cradle
- 1 x Touch probe
- 1 x Measuring cable
- 2 x File clips
- 5 x Lip clips

\$739.99 ea
\$702.99 ea 3/more
\$665.99 ea 5/more



3364 Touch Probe

- 2 x Touch probes

\$49.49 ea
\$47.02 ea 3/more
\$44.54 ea 5/more



3363 File Clips

- 2 x File clips

\$64.99 ea
\$61.74 ea 3/more
\$58.49 ea 5/more



3365 Measuring Cable

- 1 x Measuring cable

\$86.49 ea
\$82.17 ea 3/more
\$77.84 ea 5/more



3368 Lip Clips

- 5 x Lip clips

\$64.99 ea
\$61.74 ea 3/more
\$58.49 ea 5/more

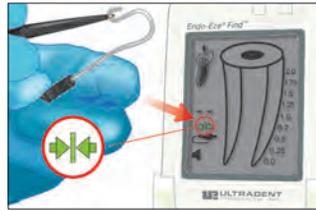


Working Length Determination

ENDO-EZE[®] FIND[®] APEX LOCATOR Technique Guide



1. Plug the measuring cable into the device. The connector icon will appear.



2. Test the connection by touching the file clip to the lip clip. The connection icon will appear.



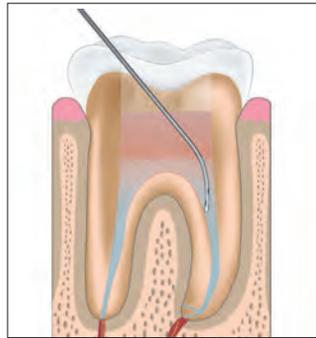
3. Ensure that the tooth is properly isolated.



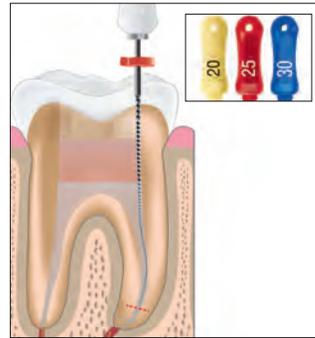
4. Place the lip clip onto the patient's lip.



5. Before beginning the electronic measurement, preflare the cervical third and middle third of the canal.



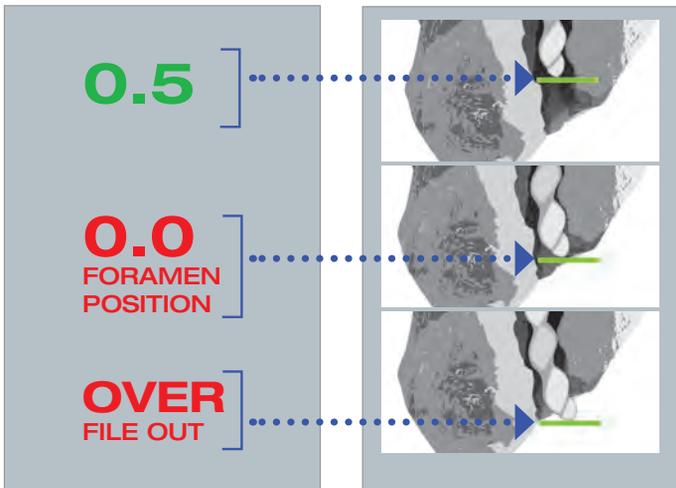
6. Ensure that the canal is filled with irrigant up to the canal opening.



7. Insert a stainless steel K-File to the temporary working length. If the chosen file is loose inside the canal, exchange it for a larger diameter.



8. Connect the file clip to the file. The file icon inside the tooth image will stop blinking.



9. Move the file toward the foramen. As the file progresses, colored dots will appear inside the root canal image on the display to indicate the file's progress. Numerical readings will appear on the right side of the display.



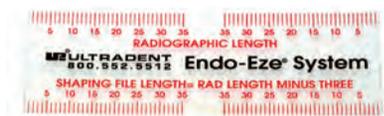
10. When you have reached the foramen, adjust the rubber stop on the file to mark the length.



11. Determine the electronically obtained length with an endodontic ruler. To establish the working length, subtract .05–1.0 mm from the electronic length.



Endo-Eze[™] Ruler



1295 Endo-Eze Ruler 25pk

\$29.49 ea
\$28.02 ea 3/more
\$26.5 ea 4 5/more

