

Raypex® 5 Apex Locator

Brief Instructions



General remarks

STOP

Prior to first use the battery must be charged for 24 hours.

Connect the external charger to the jack and plug it into the power outlet. When charging is completed disconnect the charger cable from the device. The battery level indicator shows all segments. When in use and the battery level indicator shows only one segment the battery must be recharged.

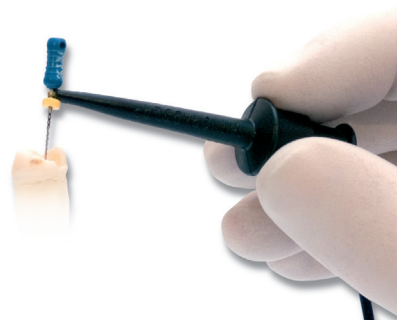
Optional: to set your individual preference point use "Virtual Apex" feature: switch to demo mode, select required segment in the Apex Zoom region (the first green bar, for example), press mode button until an arrow appears at the selected segment. After setting the virtual apex point, a special audio signal will clearly indicate that the preference point has been reached.

1 Starting the root canal treatment

After preparation of the access cavity and placing the rubber dam start to prepare the coronal canal section. To obtain the most precise measuring results rinse the canal with 0.9% NaCl or 2% Chlorhexidine directly prior to determining the canal length. Blow dry the access cavity and/or use a cotton pellet.

2 Preparing for length determination

Connect measuring cable with lip clip and file clip, or alternatively with touch probe in molar region, and insert the cable into jack at the right side of the device. Turn the device on. Place the lip clip on the patient's lip on the opposite side of the tooth to be treated.



Determination of working length

Important: choose a measuring file according to canal width.

Either attach the measuring file to the file clip and then insert it into the root canal or firstly insert the measuring file into the root canal (estimated working length minus approx. 10 mm) and then attach it to the file clip. Alternatively in the molar region: insert file into the root canal and touch it with the touch probe.

Picture of display: on the left side the file movement in the coronal-median section is shown. On the right side the Apex Zoom represents the pre-apical and apical section. The blue bars represent the pre-apical section.

The green to yellow bars represent the section from the apical constriction to the foramen apicale. The red zone appears when the foramen apicale has been passed.



Peculiarities

In the case of a wrong result: detect the reason according to the list below, eliminate and repeat measuring. (For details see Instructions for Use).

3

• Incorrect *positive* measuring results

The foramen apicale is prematurely indicated caused by an electric short circuit.

Look for:

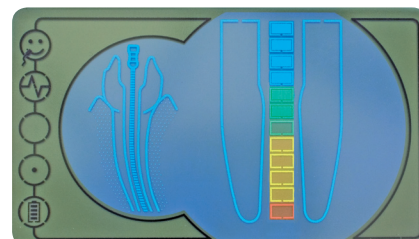
- Too much fluid in the access cavity
- Contact with metal crown and/or bridge
- Contact with parapulpal post
- Gingival proliferation
- Accessory and juvenile canal
- Root perforation and/or fracture

• Incorrect *negative* measuring results

The electric circuit is not closed due to a blockage. No result is indicated.

Look for:

- Root canal obliteration
- In the case of revisions: remnants of previous filling material have been left in the canal



(Picture of display)