

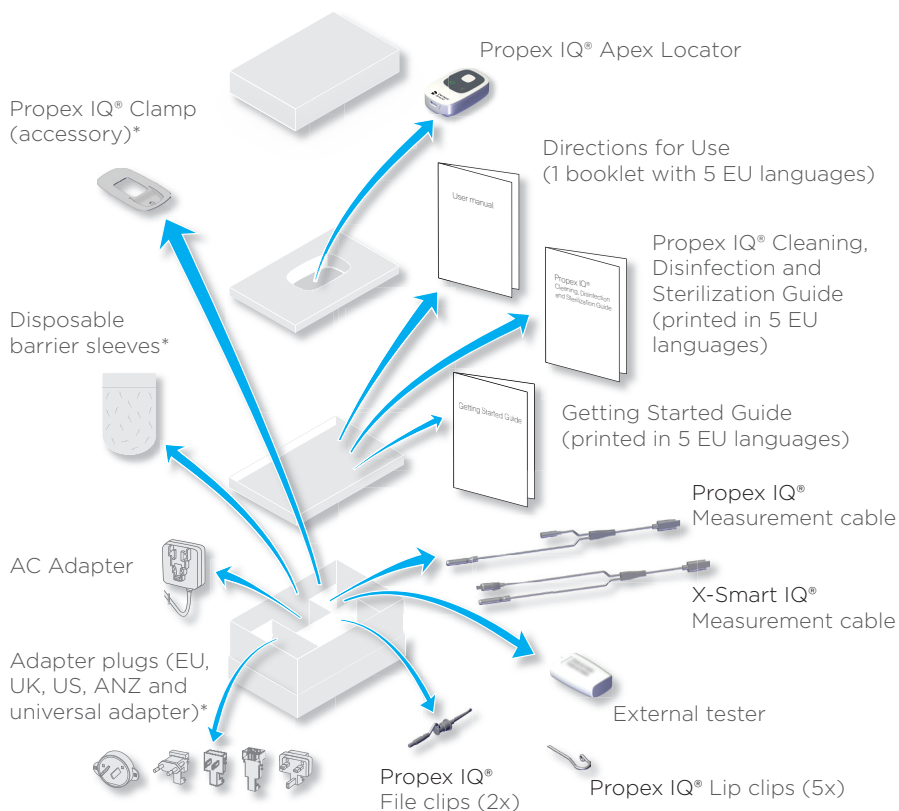


Propex IQ® Apex Locator

Getting Started Guide

Just a few images to help you set up your apex locator easily and get the most out of it.

Package contents



❗ After each use, clean, disinfect and sterilize components as specified below. Also, the disposable (single-use) polyethylene barrier sleeve shall be used and changed between patients. For further information on reprocessing, please consult the Directions for Use.

Components	Prior to first use and after each use
Propex IQ® Apex Locator	Clean, disinfect
Propex IQ® Measurement cable	Clean, disinfect
X-Smart IQ® Measurement cable	Clean, disinfect
Propex IQ® Clamp	Clean, disinfect
Propex IQ® File clip	Clean, disinfect, sterilize
Propex IQ® Lip clip	Clean, disinfect, sterilize

* These components are not available in all kits

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Propex IQ® Apex Locator operation

A LED's and buttons

File progress indication

ON/OFF/Standby button

OFF

ON

This LED also displays the battery status (see chapter B below)

Bluetooth® button


Bluetooth® OFF / not connected

Bluetooth® ON / searching device

Device connected to Endo IQ® App

Connection lost (see DFU chapter troubleshooting)






Connection lost; default working length settings retrieved



B Battery

ⓘ Please fully charge the Propex IQ® Apex Locator to optimize battery life.

Battery status

-  Green: charged
-  Green flashing: device charging / standby mode
-  Orange: low battery
-  Red: very low battery
-  Red flashing: critically low battery

Connector for charger, measurement cable and external tester



Full recharge: 6 hours
 Battery life: 1 day of usage*
 * 8 patients per day, 12 min per patient

Uncombined

Propex IQ® Apex Locator - Unconnected.



Propex IQ® Apex Locator only used with file clip.
The device is not used in conjunction with the Endo IQ® App.

Propex IQ® Apex Locator - Connected to Endo IQ® App.



Propex IQ® Apex Locator used with file clip in conjunction with the Endo IQ® App.

Combined With the X-Smart IQ® Handpiece.

- ① Cable connection between X-Smart IQ® Handpiece and Propex IQ® Apex Locator required.
- ① Always use the protective sleeves of X-Smart IQ® Handpiece and Propex IQ® Apex Locator to ensure a correct functioning of the system.

Propex IQ® Apex Locator & X-Smart IQ® Handpiece - Unconnected.

The Handpiece barrier sleeve may look different in certain countries.



Propex IQ® Apex Locator used with X-Smart IQ® Handpiece but without the Endo IQ® App.

- ① Bluetooth® auto connection feature only available when both X-Smart IQ® Handpiece and Propex IQ® Apex Locator are combined via cable.
- ① Connects the second device automatically once bluetooth® connection is established with the first one.

Propex IQ® Apex Locator & X-Smart IQ® Handpiece - Connected to Endo IQ® App.

The Handpiece barrier sleeve may look different in certain countries.



Propex IQ® Apex Locator used with X-Smart IQ® Handpiece in conjunction with Endo IQ® App.

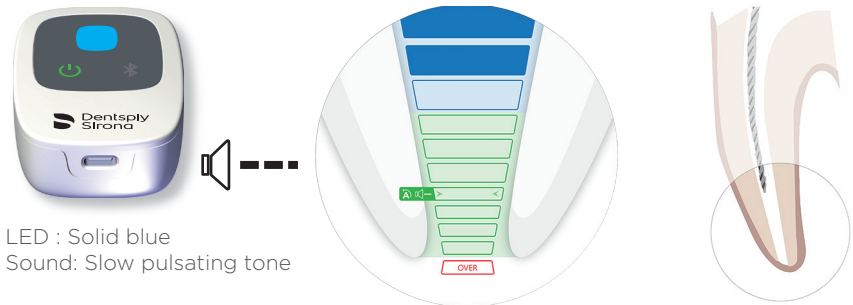
If one of these two devices is connected to the Endo IQ® App via Bluetooth®, the second device automatically will be connected to the Endo IQ® App once it is turned ON.

Ⓛ File progression

⚠ Always perform a closed-loop test before performing a treatment (see chapter 3).

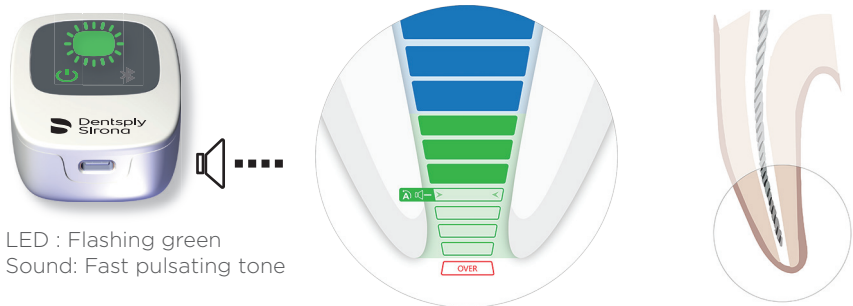
Coronal and medial region:

Move the endodontic file towards the apex.



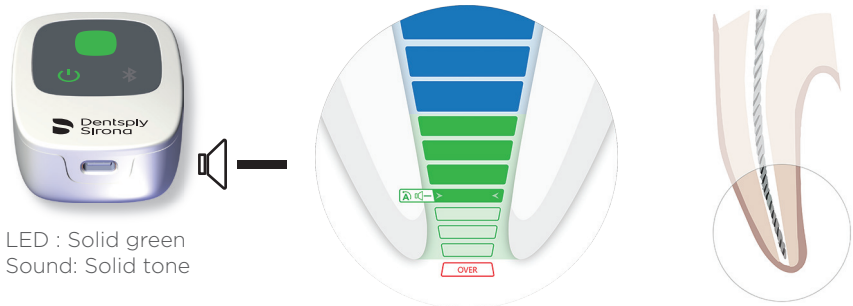
Region coronal to the reference point for working length determination:

The endodontic file can be moved further towards the reference point.



Reference point for working length determination:

This is the relevant position for determining the working length.

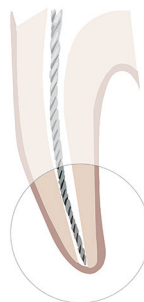
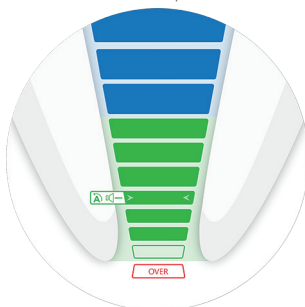


Region beyond reference point:

Further file progression beyond the reference point is visualized.



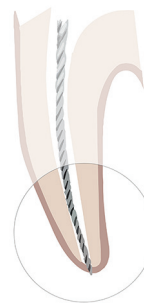
LED : Solid green
Sound: Solid tone



Apical foramen (Major apical foramen or diameter) passed/over-instrumentation:



LED : Flashing red
Sound: Fast pulsating tone



- ① The last green bar indicates the apical foramen.
- ① In combined mode, Apical Reverse (AR) is OFF by default on X-Smart IQ® Handpiece. If AR is ON, X-Smart IQ® Handpiece will go in reverse where the reference point has been set (LED shows solid green and solid tone is emitted).
- ① SHAPING TARGET and Apical Reverse (AR) settings as well as sound volume and scheme can be changed in the Endo IQ® App.

3

Closed-Loop Test

⚠ **This feature checks the cables. This test should be performed before each treatment.**

Ⓐ Turn ON Propex IQ® Apex Locator (1).

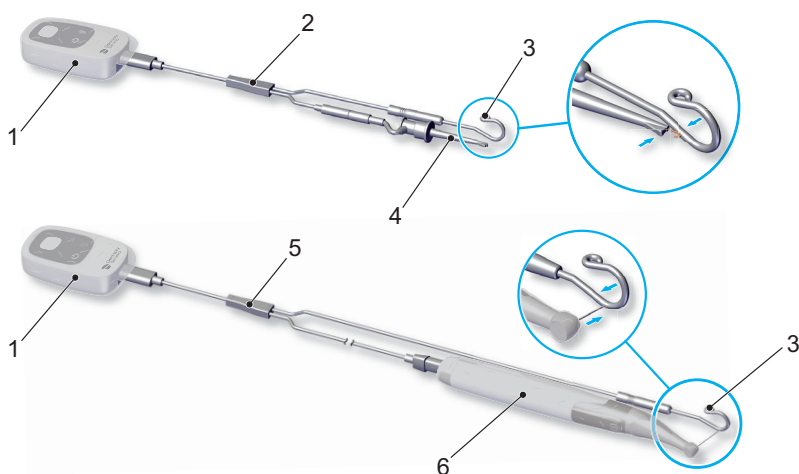
Ⓑ Connect the Propex IQ® or X-Smart IQ® Measurement Cable (2 or 5) to Propex IQ® Apex Locator (1).

Ⓒ Connect the Propex IQ® Lip Clip (3) and the Propex IQ® File Clip (4) or X-Smart IQ® Handpiece (6) to the Propex IQ® or X-Smart IQ® Measurement Cable (2 or 5). Ensure that an endodontic file is inserted in the X-Smart IQ® Contra-angle.

Ⓓ Make a closed-loop circuit with the Propex IQ® or X-Smart IQ® Measurement Cable: Hook the Propex IQ® File Clip (4) to the lip clip (3) or put the lip clip (3) in contact with the endodontic file inserted in the X-Smart IQ® Contra-angle. Propex IQ® Apex Locator (1) central LED will turn white indicating that cables are functional.

Any result other than white indicates a test fail.

⚠ **If the closed-loop test failed, please refer to Propex IQ® Directions for Use - 10 Troubleshooting.**



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Connect devices to Endo IQ® App

- A Open Endo IQ® App.

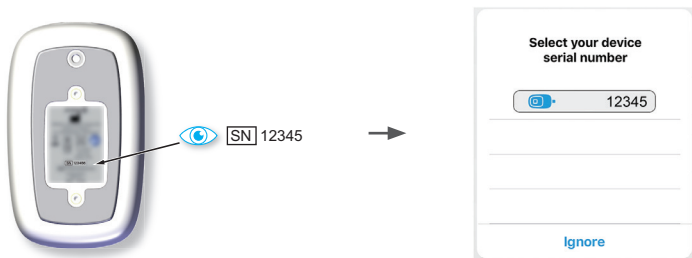


- B - Press the ON/OFF/Standby button to turn ON the Propex IQ® Apex Locator.
- Press the Bluetooth® button to activate the Bluetooth® and check that the Bluetooth® LED is flashing blue.



- C Wait a few seconds until Endo IQ® App detects the device.

- D Check the device serial number on the back of the device and click on the corresponding number on the iPad® screen.



- E When the Propex IQ® Apex Locator is connected to Endo IQ® App:

This icon appears at the bottom of the screen on Endo IQ® App



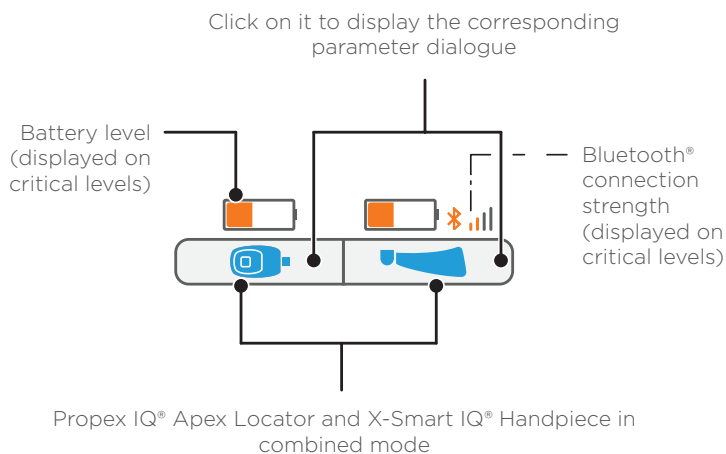
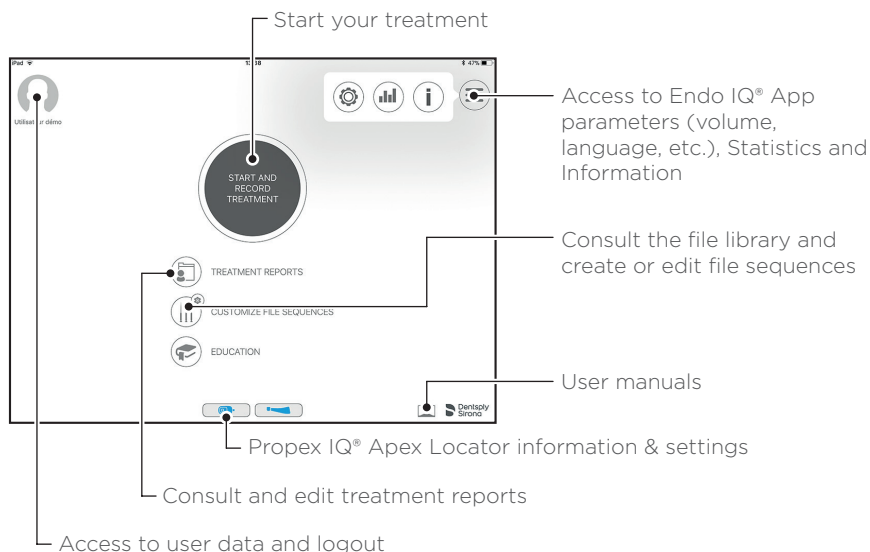
Bluetooth® LED on the device switches to solid blue

- ⓘ Please refer to the **Getting Started Guide of the X-Smart IQ® Handpiece** for connecting the X-Smart IQ® Handpiece which allows you to change unconnected settings, and Apical Reverse settings.

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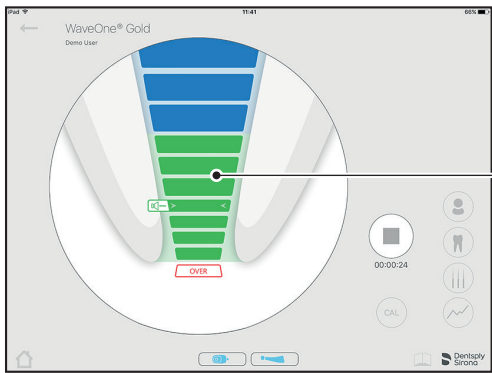
Using Endo IQ® App

Ⓐ Home screen



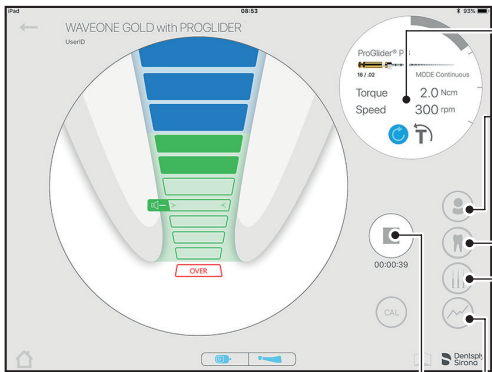
⚠ Check chapter 10 for detailed symbol explanation.

**Ⓑ Treatment screen in uncombined mode
(Propex IQ® Apex Locator only)**



File progression

Ⓒ Treatment screen in combined mode with X-Smart IQ® Handpiece



X-Smart IQ® Handpiece information

Create or select a patient record number

Enter treatment data (notes, working lengths, last file used, obturation method)

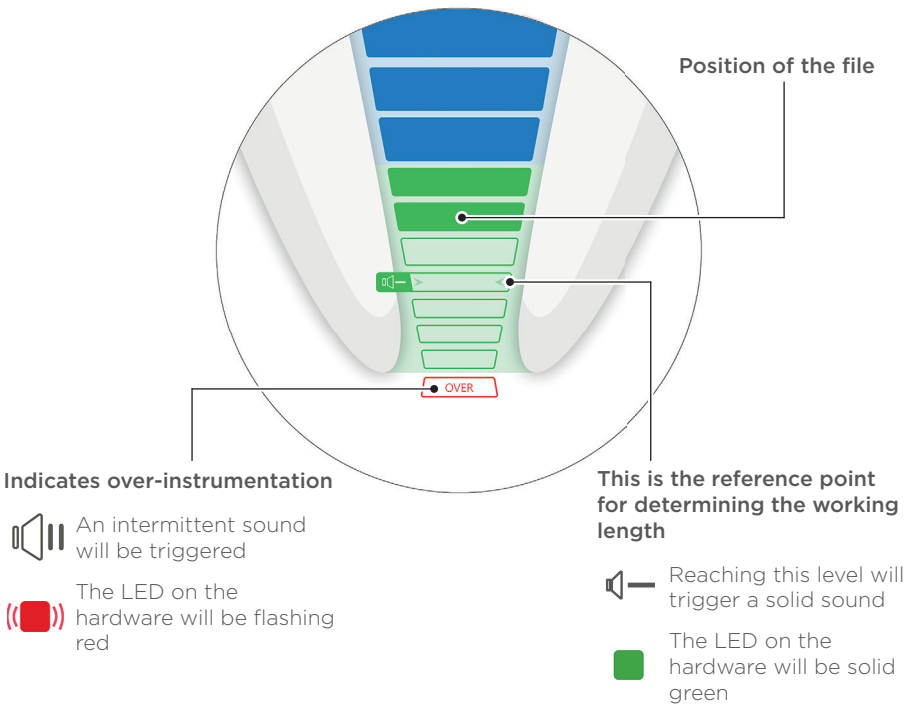
Select your file sequence (or file system)

Visualize the torque that was applied to the file and file progression

Stop recording the treatment and send a PDF report by e-mail

Ⓢ **Default Propex IQ® Apex Locator visualization**

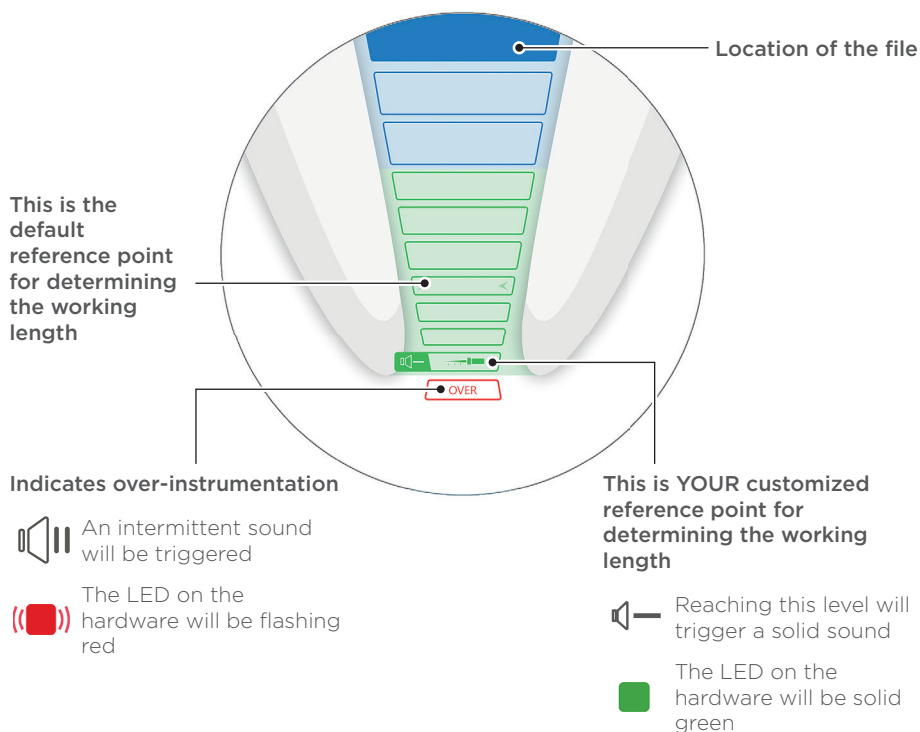
⚠ Always perform a closed-loop test before performing a treatment (see chapter 3).



⚠ In combined mode, Apical Reverse (AR) is OFF by default on X-Smart IQ® Handpiece.

E Customize Propex IQ® Apex Locator visualization

⚠ Always perform a closed-loop test before performing a treatment. (see chapter 3).



⚠ When combining the X-Smart IQ® Handpiece with the Propex IQ® Apex Locator, the Apical Reverse (AR) feature is initially OFF. To use AR, check chapter 6, Device settings in Endo IQ® App.

⚠ Settings can be changed in the Endo IQ® App.

Go to chapter 7 to see how to customize your relevant working length section.

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Device settings in Endo IQ® App

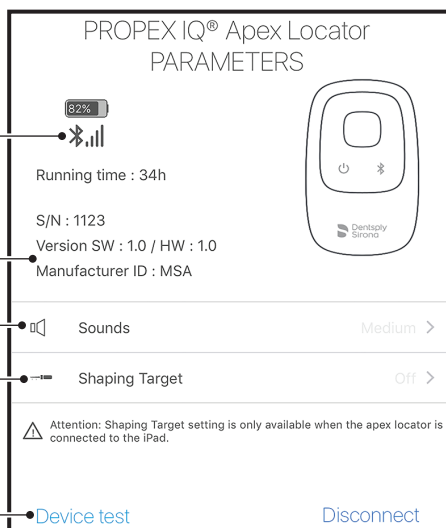
Propex IQ® Apex Locator settings

Propex IQ® Apex Locator technical data

Volume and sound settings of the Propex IQ® Apex Locator

SHAPING TARGET parameters

Test basic function of the device

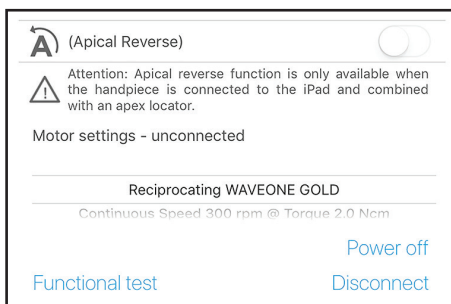


X-Smart IQ®
Handpiece settings

For more information on the X-Smart IQ® Handpiece settings, please see the X-Smart IQ® Handpiece documentation.

When using your Propex IQ® Apex Locator in combined mode with the X-Smart IQ® Handpiece, the Apical Reverse (AR) function is initially OFF.

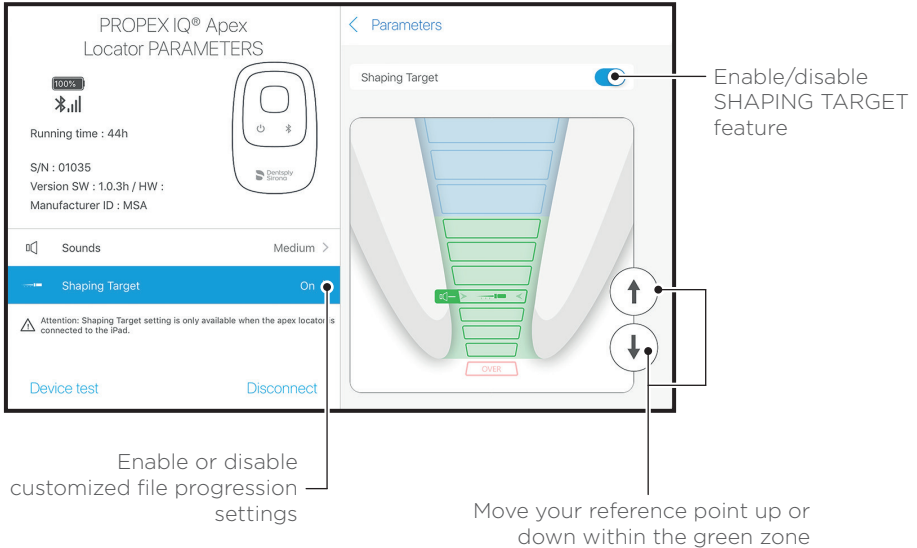
To turn it ON, press on the X-Smart IQ® Handpiece icon to access the parameter dialogue where the Apical Reverse (AR) feature then can be enabled or again disabled.



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SHAPING TARGET Settings

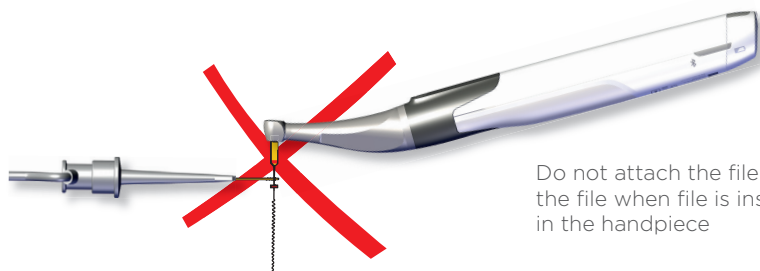
Customize the default working length reference to your own preference.



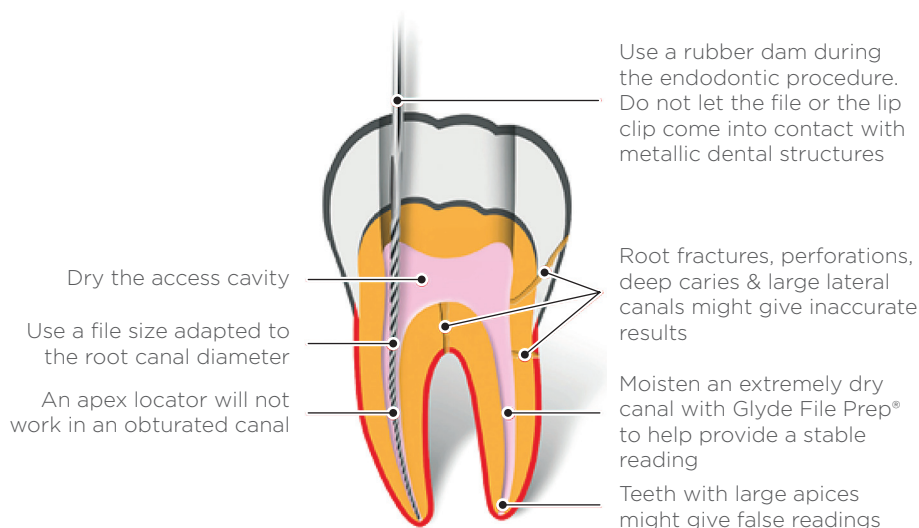
⚠ The SHAPING TARGET Setting is OFF by default, and only available when the Propex IQ® Apex Locator is connected to the Endo IQ® App.

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Propex IQ® Apex Locator precautions



Do not attach the file clip to the file when file is inserted in the handpiece



- ❗ The use of the X-Smart IQ® Handpiece barrier sleeve is mandatory in combined mode (REF A10580000000 X-Smart IQ® Handpiece sleeves).
- ❗ The use of the Propex IQ® Apex Locator disposable barrier (single-use) sleeve is mandatory (REF B00PPIQ1ACBAR Propex IQ® Apex Locator Disposable Barrier Sleeves).

Terminologies

X-Smart IQ® Handpiece provided function when connected with Propex IQ® Apex Locator

Apical Reverse (ON)

AR function allows to automatically stop the X-Smart IQ® Handpiece when the reference point is reached and starts the X-Smart IQ® Handpiece rotation in the opposite direction.

Apical Reverse (OFF)

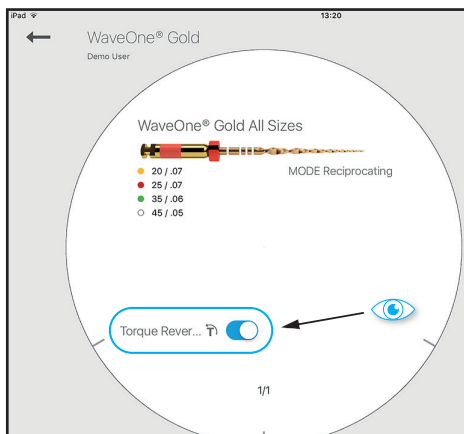
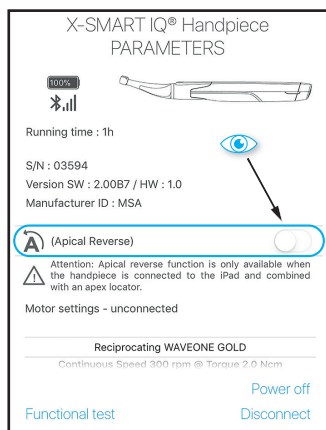
X-Smart IQ® Handpiece will not stop and will not rotate in opposite direction.

Torque Reverse (ON)

If the torque applied on the X-Smart IQ® Handpiece is higher than the maximum defined torque, the X-Smart IQ® Handpiece automatically turns in reverse until the applied torque is lower than a pre-defined threshold (in continuous mode), or until the X-Smart IQ® START/STOP button is pressed (in reciprocating rotation).

Torque Reverse (OFF)

If the torque applied on the X-Smart IQ® Handpiece is higher than the maximum defined torque, the X-Smart IQ® Handpiece stops. The user must press the X-Smart IQ® START/STOP button to restart the X-Smart IQ® Handpiece.



Propex IQ® Apex Locator provided function when connected to the Endo IQ® App.

SHAPING TARGET





The SHAPING TARGET function allows the user to customize the location of the reference point for the working length determination.

- ① **SHAPING TARGET and Apical Reverse (AR) features can be used independently; By enabling the SHAPING TARGET feature (which is a Propex IQ® Apex Locator setting), the Apical Reverse feature is not enabled automatically. This can be done in the parameter dialogue of the X-Smart IQ® Handpiece.**




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Symbols





X-Smart IQ® Handpiece status symbols

Image	Description
	X-Smart IQ® Handpiece connected; Apical Reverse (AR) is off
	Apical Reverse (AR) is ON on X-Smart IQ® Handpiece
	Apical Reverse (AR) is OFF on X-Smart IQ® Handpiece
	Data transferring to X-Smart IQ® Handpiece

Propex IQ® Apex Locator status symbols

Image	Description
	Propex IQ® Apex Locator connected and SHAPING TARGET OFF
	Propex IQ® Apex Locator connected and SHAPING TARGET ON
	Data transferring to Propex IQ® Apex Locator

X-Smart IQ® Handpiece and Propex IQ® Apex Locator combined symbols

Image	Description
	X-Smart IQ® Handpiece combined with Propex IQ® Apex Locator and both connected to the Endo IQ® App
	Propex IQ® Apex Locator combined with X-Smart IQ® Handpiece both with SHAPING TARGET and Apical Reverse features enabled
	X-Smart IQ® Handpiece combined with Propex IQ® Apex Locator but only X-Smart IQ® Handpiece connected to the Endo IQ® App.
	Propex IQ® Apex Locator combined with X-Smart IQ® Handpiece but only Propex IQ® Apex Locator connected to the Endo IQ® App.

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After use

Foreword

Please follow the Directions for Use for complete cleaning, disinfection and sterilization procedures.

Cleaning &
Disinfection


- ④ Disposable barrier sleeve to be removed after each use.
- ① Use only disinfectants with Alcohol Quaternary Ammonium active ingredients (e.g. CaviWipes™ or CaviCide™), except for the Propex IQ® File Clip or Lip Clip (see Directions for Use). Use only disinfectants, which are compatible with the device and accessories.
- ① Leave the disinfectant to act in accordance to manufacturer's instructions. Avoid leaving the disinfectant in contact with the device surfaces for a time longer than that recommended by the manufacturer of the disinfectant product. It can result in damage to the device.

Do not spray



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Additional information

- ① This document does not replace the Directions for Use. Please read carefully the Directions for Use document that is available from any screen of Endo IQ® App by clicking on this icon  and on dentsplysirona.com
- ① Check regularly for updates on the App Store®.
- ① Always check the application compatibility on ① before updating iOS on your iPad®.
- ① iPad® is not a trademark of Dentsply Sirona.

You also can find more information (tutorial videos, tips & tricks, FAQ) on dentsplysirona.com and on the dedicated page dentsplysirona.com/IQ. For support question, please contact your sales representative.

Some images in the Getting Started Guide may vary slightly from the actual device.

The pictures in this Getting Started Guide may vary slightly from the current Endo IQ® App.



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