

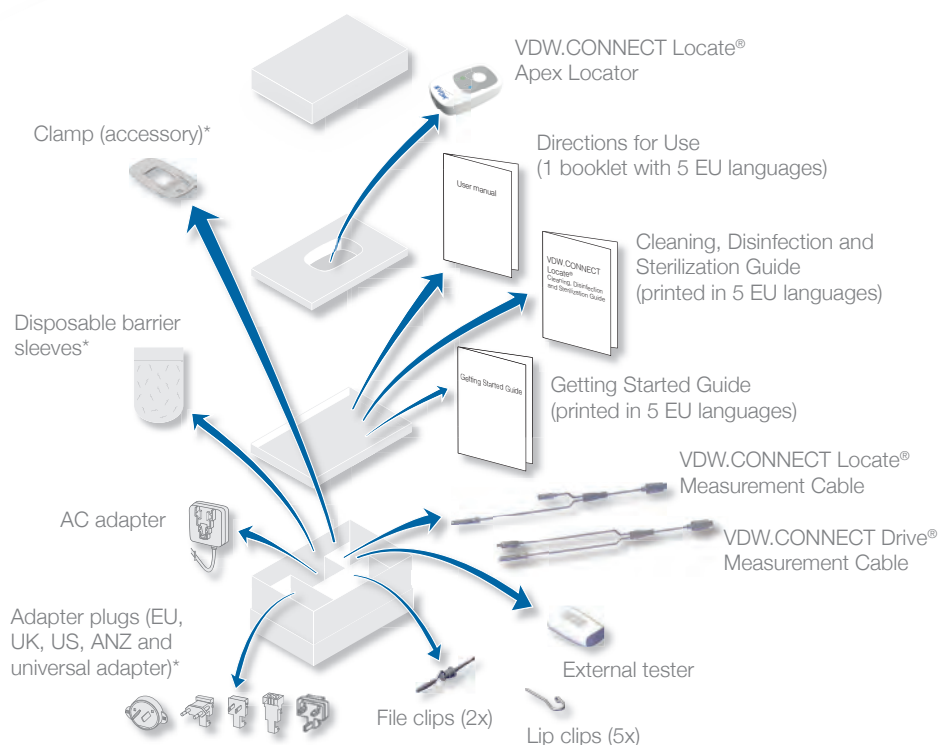
**DepoDent**



## VDW.CONNECT Locate® Apex Locator

Getting  
Started  
Guide

# 1 Package contents



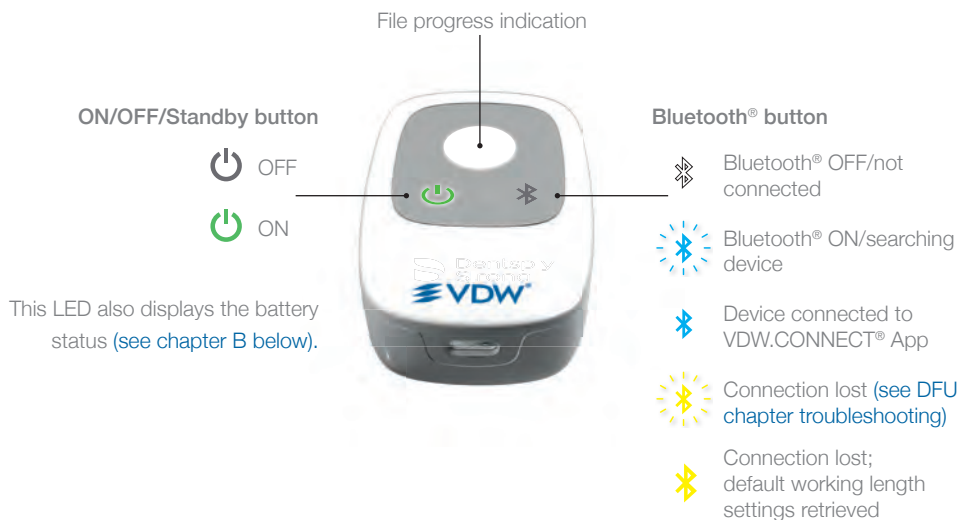
\* These components are not available in all kits.

- ① 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
VDW.CONNECT Locate® Apex Locator	Clean, disinfect
VDW.CONNECT Locate® Measurement Cable	Clean, disinfect
VDW.CONNECT Drive® Measurement Cable	Clean, disinfect
VDW.CONNECT Locate® Clamp	Clean, disinfect
VDW.CONNECT Locate® File Clip	Clean, disinfect, sterilize
VDW.CONNECT Locate® Lip Clip	Clean, disinfect, sterilize

## 2 VDW.CONNECT Locate® Apex Locator operation






### A LED's and buttons



### B Battery

ⓘ Please fully charge the VDW.CONNECT Locate® 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

## 2 VDW.CONNECT Locate® Apex Locator operation

### © Working modes

#### Uncombined



#### **VDW.CONNECT Locate® Apex Locator – Unconnected.**

VDW.CONNECT Locate® Apex Locator only used with file clip. The device is not used in conjunction with the VDW.CONNECT® App.



#### **VDW.CONNECT Locate® Apex Locator – Connected to VDW.CONNECT® App.**

VDW.CONNECT Locate® Apex Locator used with file clip in conjunction with the VDW.CONNECT® App.

## 2 VDW.CONNECT Locate® Apex Locator operation

### Combined – with the VDW.CONNECT Drive® Handpiece

- ❗ Cable connection between VDW.CONNECT Drive® Handpiece and VDW.CONNECT Locate® Apex Locator required.
- ❗ Always use the protective sleeves of VDW.CONNECT Drive® Handpiece and VDW.CONNECT Locate® Apex Locator to ensure a correct functioning of the system.



*The handpiece barrier sleeve may look different in certain countries.*

**VDW.CONNECT Locate® Apex Locator & VDW.CONNECT Drive® Handpiece – Unconnected.**  
VDW.CONNECT Locate® Apex Locator used with VDW.CONNECT Drive® Handpiece but without VDW.CONNECT® App.

- ❗ Bluetooth® auto connection feature only available when both VDW.CONNECT Drive® Handpiece and VDW.CONNECT Locate® Apex Locator are combined via cable.
- ❗ Connects the second device automatically once Bluetooth® connection is established with the first one.



*The handpiece barrier sleeve may look different in certain countries.*

**VDW.CONNECT Locate® Apex Locator & VDW.CONNECT Drive® Handpiece – Connected to VDW.CONNECT® App.**

VDW.CONNECT Locate® Apex Locator used with VDW.CONNECT Drive® Handpiece in conjunction with VDW.CONNECT® App. If one of these two devices is connected to the VDW.CONNECT® App via Bluetooth®, the second device automatically will be connected to the VDW.CONNECT® App once it is turned ON.

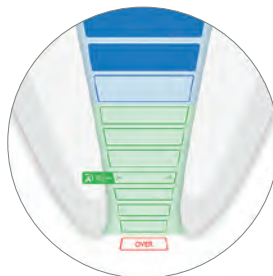
## 2 VDW.CONNECT Locate® Apex Locator operation

### D File progression

- ① Always perform a closed-loop test before performing a treatment (see chapter 3).

#### Coronal and medial region:

Move the endodontic file towards the apex.

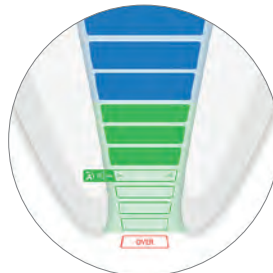


LED: Solid blue

Sound: Slow pulsating tone

#### Region coronal to the reference point for working length determination:

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

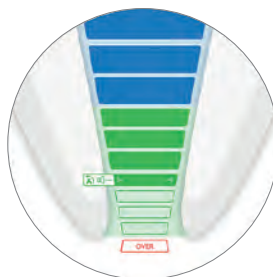


LED: Flashing green

Sound: Fast pulsating tone

#### Reference point for working length determination:

This is the relevant position for determining the working length.



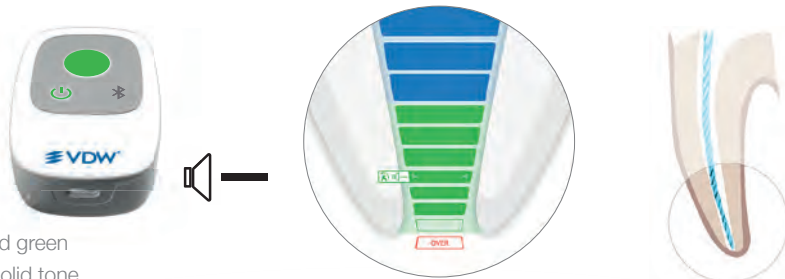
LED: Solid green

Sound: Solid tone

## 2 VDW.CONNECT Locate® Apex Locator operation

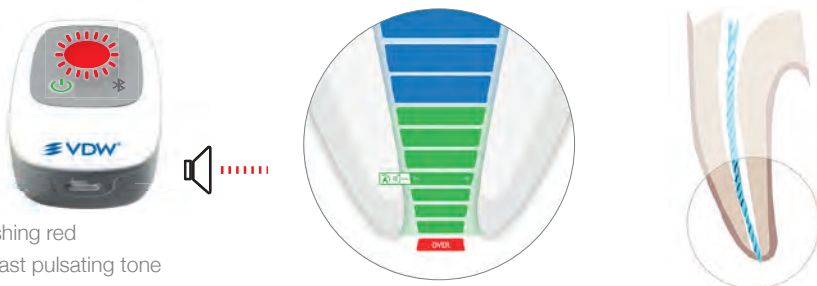
### Region beyond reference point:

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

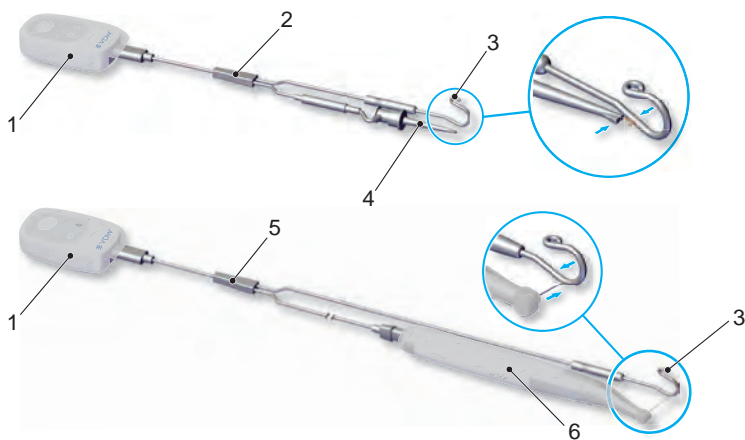
- ① The last green bar indicates the apical foramen.
- ① In combined mode, Apical Reverse (AR) is OFF by default on VDW.CONNECT Drive® Handpiece. If AR is ON, VDW.CONNECT Drive® Handpiece will go in reverse where the reference point has been set (LED shows solid green and solid tone is emitted).
- ①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

### 3 Closed-Loop Test

① This feature checks the cables. This test should be performed before each treatment.

- A Turn ON VDW.CONNECT Locate® Apex Locator (1).
- B Connect VDW.CONNECT Locate® or VDW.CONNECT Drive® Measurement Cable (2 or 5) to VDW.CONNECT Locate® Apex Locator (1).
- C Connect the VDW.CONNECT Locate® Lip Clip (3) and the VDW.CONNECT Locate® File Clip (4) or VDW.CONNECT Drive® Handpiece (5) to the VDW.CONNECT Locate® or VDW.CONNECT Drive® Measurement Cable (2 or 5). Ensure that an endodontic file is inserted in the VDW.CONNECT Drive® Contra-angle.
- D Make a closed-loop circuit with the VDW.CONNECT Locate® or VDW.CONNECT Drive® Measurement Cable: Hook the VDW.CONNECT Locate® File Clip (4) to the lip clip (3) or put the lip clip (3) in contact with the endodontic file inserted in the VDW.CONNECT Drive® Contra-angle. VDW.CONNECT Locate® Apex Locator (1) central LED will turn white indicating that cables are functional. Any result other than white indicates a test fail.

① If the closed-loop test failed, please refer to VDW.CONNECT Locate® Directions for Use – 10 Troubleshooting.





## 4 Connect devices to VDW.CONNECT® App

- A Open VDW.CONNECT® App.



- B
- Press the ON/OFF/Standby button to turn ON the VDW.CONNECT Locate® 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 VDW.CONNECT® App detects the devices.

- 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 VDW.CONNECT Locate® Apex Locator is connected to VDW.CONNECT® App:

This icon appears at the bottom of the screen on VDW.CONNECT® App.

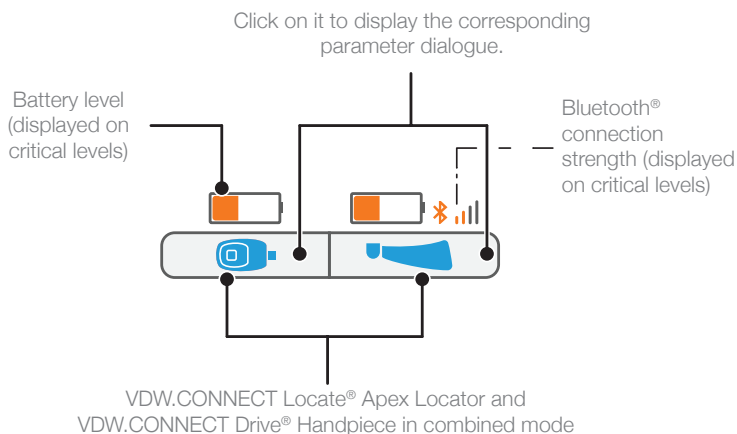
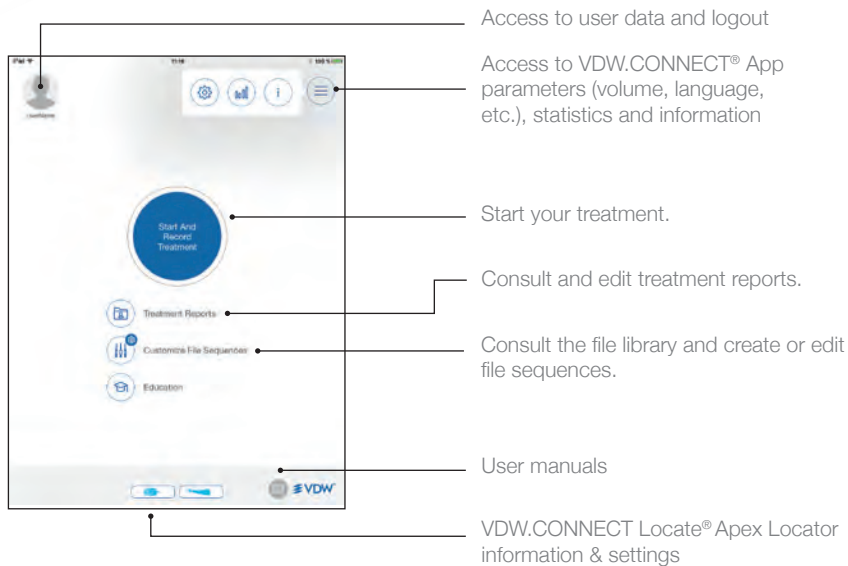


Bluetooth® LED on the device switches to solid blue.

- ⓘ Please refer to the Getting Started Guide of the VDW.CONNECT Drive® Handpiece for connecting the VDW.CONNECT Drive® Handpiece which allows you to change unconnected settings, and Apical Reverse settings.

## 5 Using VDW.CONNECT® App

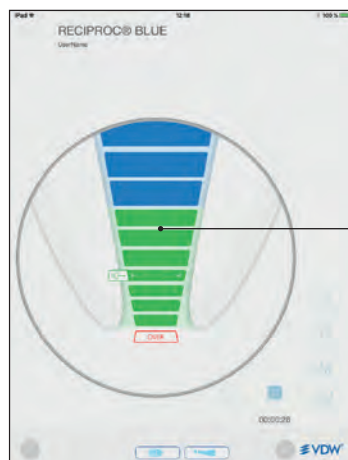
### A Home Screen



① Check chapter 10 for detailed symbol explanation.

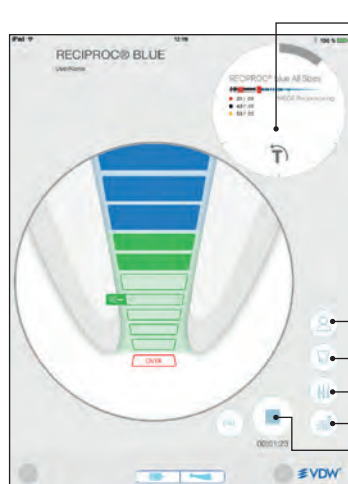
## 5 Using VDW.CONNECT® App

- B** Treatment screen in uncombined mode  
(VDW.CONNECT Locate® Apex Locator only)



File progression

- C** Treatment screen in combined mode with VDW.CONNECT Drive® Handpiece



VDW.CONNECT Drive® 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).

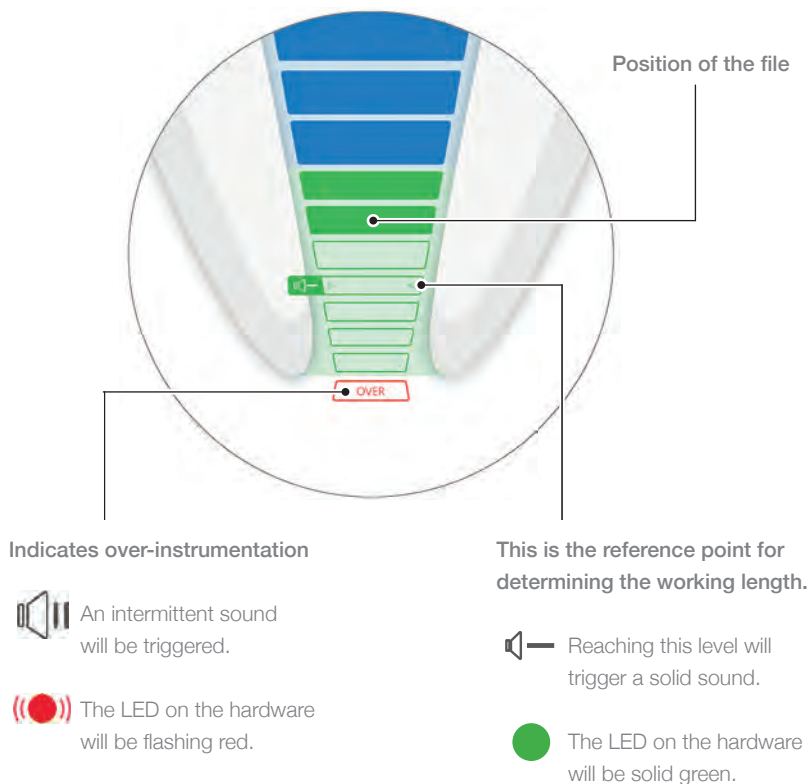
Visualize the torque that was applied to the file and file progression.

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

## 5 Using VDW.CONNECT® App

### D Default VDW.CONNECT Locate® Apex Locator visualization

- ① Always perform a closed-loop test before performing a treatment (see chapter 3).

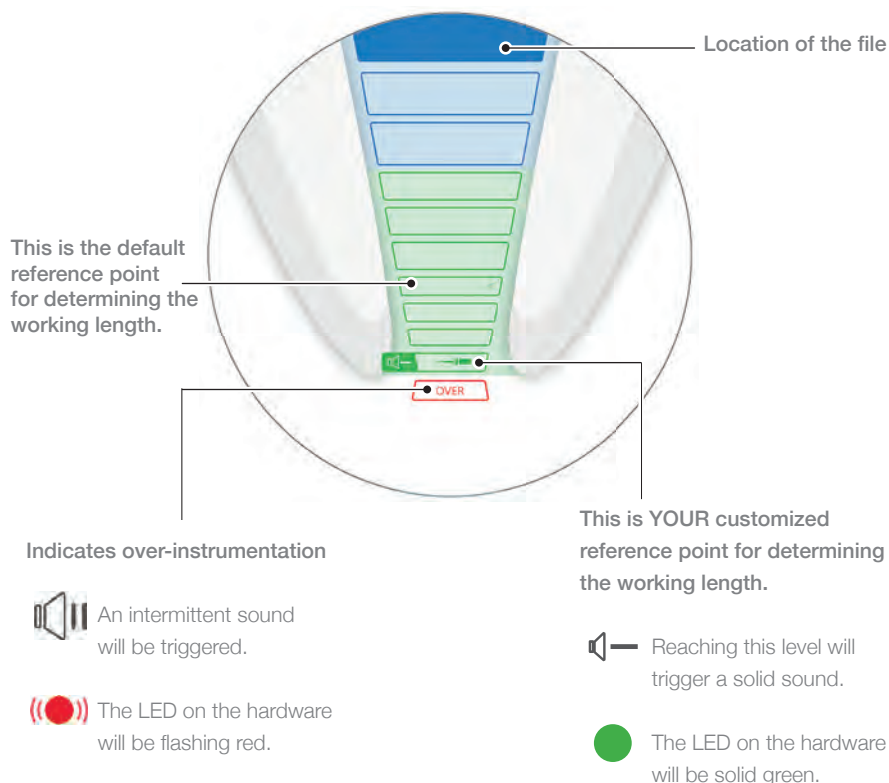


- ① In combined mode, Apical Reverse (AR) is OFF by default on VDW.CONNECT Drive® Handpiece.

## 5 Using VDW.CONNECT® App

### E Customize VDW.CONNECT Locate® Apex Locator visualization

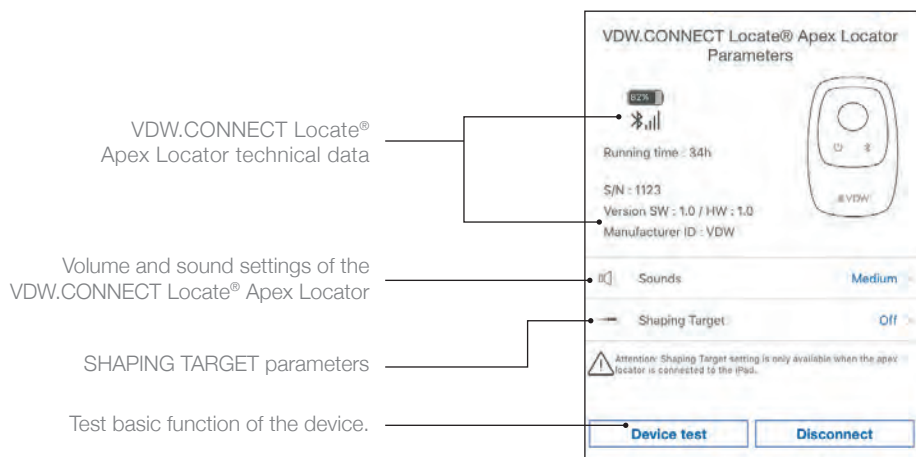
- ⓘ Always perform a closed-loop test before performing a treatment (see chapter 3).



- ⓘ When combining the VDW.CONNECT Drive® Handpiece with the VDW.CONNECT Locate® Apex Locator, the Apical Reverse (AR) feature is initially OFF. To use AR, check chapter 6, VDW.CONNECT Locate® Apex Locator.
- ⓘ Settings can be changed in the VDW.CONNECT® App. Go to chapter 7 to see how to customize your relevant working length section.

## 6 Device settings in VDW.CONNECT® App

### VDW.CONNECT Locate® Apex Locator settings



### VDW.CONNECT Drive® Handpiece settings

For more information on the VDW.CONNECT Drive® Handpiece settings, please see the [VDW.CONNECT Drive® Handpiece documentation](#).

When using your VDW.CONNECT Locate® Apex Locator in combined mode with the VDW.CONNECT Drive® Handpiece, the Apical Reverse (AR) function is initially OFF.

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



## 7 SHAPING TARGET settings

Customize the default working length reference to your own preference.

The screenshot shows the 'Parameters' screen of the VDW.CONNECT Locate® Apex Locator app. The left panel displays device information: 82% battery, Bluetooth signal, Running time: 34h, S/N: 1123, Version SW: 1.0 / HW: 1.0, and Manufacturer ID: VDW. Below this is a 'Sounds' section set to 'Medium' and a 'Shaping Target' section set to 'On'. A warning icon and text state: 'Attention: Shaping Target setting is only available when the apex locator is connected to the iPad.' At the bottom are 'Device test' and 'Disconnect' buttons. The right panel shows a 'Shaping Target' toggle switch (currently on) and a diagram of a root canal with a green 'shaping zone' and a red 'DWG' (working length) marker. Two circular arrows (up and down) are positioned to the right of the green zone. Three callout lines point to specific UI elements: one to the 'Shaping Target' toggle switch, one to the 'Shaping Target' status bar, and one to the up/down arrows.

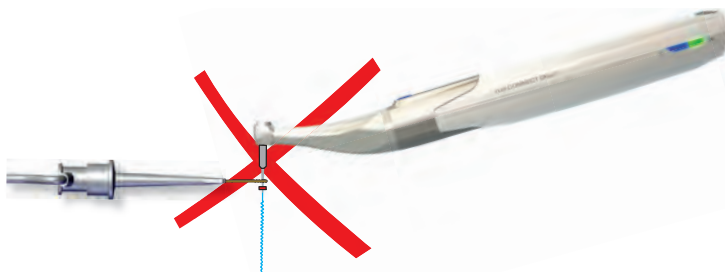
Enable or disable SHAPING TARGET feature.

Enable or disable customized file progression settings.

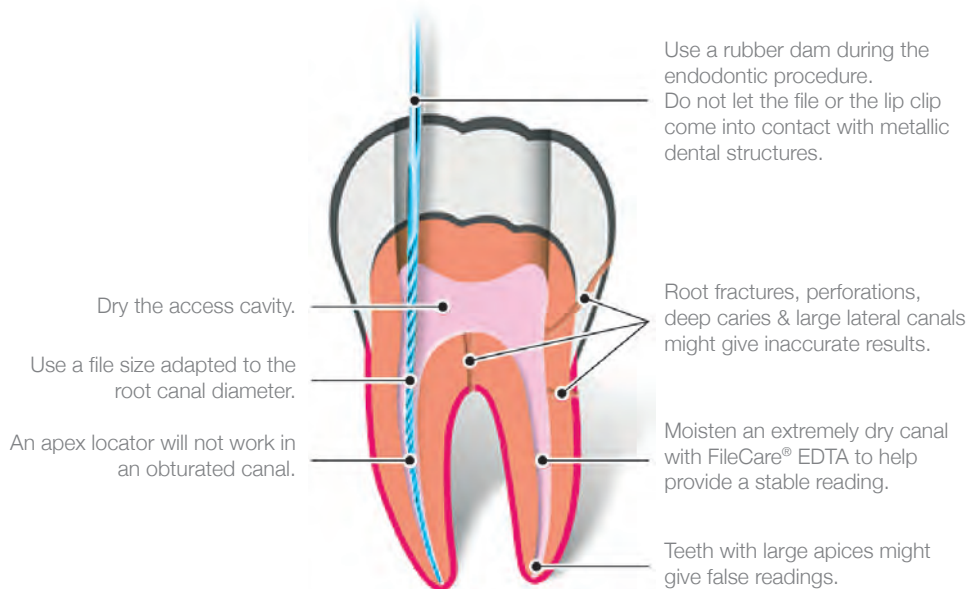
Move your reference point up or down within the green zone.

- ⓘ The SHAPING TARGET setting is OFF by default, and only available when the VDW.CONNECT Locate® Apex Locator is connected to the VDW.CONNECT® App.

## 8 VDW.CONNECT Locate® Apex Locator precautions



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



- ① The use of the VDW.CONNECT Drive® Handpiece Barrier Sleeve is mandatory in combined mode (REF V04 1185 000 503 VDW.CONNECT Drive® Handpiece Sleeves).

The use of the VDW.CONNECT Locate® Apex Locator Disposable Barrier (single-use) Sleeve is mandatory (REF M00CLOC1ACBAR VDW.CONNECT Locate® Apex Locator Disposable Barrier Sleeves).



## 9 Terminologies

**VDW.CONNECT Drive® Handpiece provided function when connected with VDW.CONNECT Locate® Apex Locator.**

### Apical Reverse (ON)

AR function allows to automatically stop the VDW.CONNECT Drive® Handpiece when the reference point is reached and starts the VDW.CONNECT Drive® Handpiece rotation in the opposite direction.

### Apical Reverse (OFF)

VDW.CONNECT Drive® Handpiece will not stop and will not rotate in opposite direction.

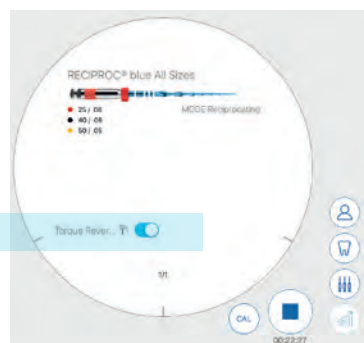


### Torque Reverse (ON)

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

### Torque Reverse (OFF)

If the torque applied on the VDW.CONNECT Drive® Handpiece is higher than the maximum defined torque, the VDW.CONNECT Drive® Handpiece stops. The user must press the VDW.CONNECT Drive® START/STOP button to restart the VDW.CONNECT Drive® Handpiece.



**VDW.CONNECT Locate® Apex Locator provided function when connected to the VDW.CONNECT® 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 VDW.CONNECT Locate® Apex Locator setting), the Apical Reverse feature is not enabled automatically. This can be done in the parameter dialogue of the VDW.CONNECT Drive® Handpiece.

# 10 Symbols




## VDW.CONNECT Drive® Handpiece status symbols

Image	Description
	VDW.CONNECT Drive® Handpiece connected; Apical Reverse (AR) is off.
	Apical Reverse (AR) is ON on VDW.CONNECT Drive® Handpiece.
	Apical Reverse (AR) is OFF on VDW.CONNECT Drive® Handpiece.
	Data transferring to VDW.CONNECT Drive® Handpiece

## VDW.CONNECT Locate® Apex Locator status symbols

Image	Description
	VDW.CONNECT Locate® Apex Locator connected and SHAPING TARGET OFF
	VDW.CONNECT Locate® Apex Locator connected and SHAPING TARGET ON
	Data transferring to VDW.CONNECT Locate® Apex Locator

## VDW.CONNECT Drive® Handpiece and VDW.CONNECT Locate® Apex Locator combined symbols

Image	Description
	VDW.CONNECT Drive® Handpiece combined with VDW.CONNECT Locate® Apex Locator and both connected to the VDW.CONNECT® App
	VDW.CONNECT Locate® Apex Locator combined with VDW.CONNECT Drive® Handpiece both with SHAPING TARGET and Apical Reverse features enabled
	VDW.CONNECT Drive® Handpiece combined with VDW.CONNECT Locate® Apex Locator but only VDW.CONNECT Drive® Handpiece connected to the VDW.CONNECT® App
	VDW.CONNECT Locate® Apex Locator combined with VDW.CONNECT Drive® Handpiece but only VDW.CONNECT Locate® Apex Locator connected to the VDW.CONNECT® App

# 11 After use

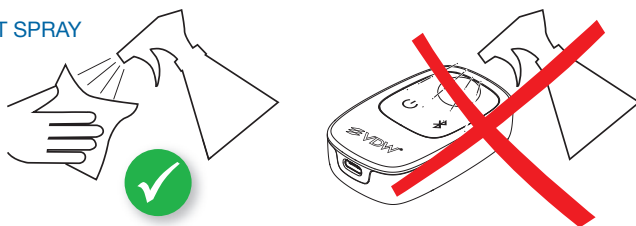
## Foreword

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


## Cleaning & Disinfection

- ⊘ Disposable barrier sleeve to be removed after each use.
- ⓘ Use only disinfectants with Alcohol Quaternary Ammonium active ingredients (e.g. FD 333), except for the VDW.CONNECT Locate® File Clip and Lip Clip (see Directions for Use). Use only disinfectants, which are compatible with the device and accessories.
- ⓘ 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



# 12 Additional information

- ⓘ This document does not replace the Directions for Use. Please read carefully the Directions for Use document that is available from any screen of VDW.CONNECT® App by clicking on this icon  and on [vdw-dental.com](http://vdw-dental.com)
- ⓘ Check regularly for updates on the App Store®.
- ⓘ Always check the application compatibility on ⓘ before updating iOS on your iPad®\*.

You also can find more information (tutorial videos, tips & tricks, FAQ) on [vdw-dental.com](http://vdw-dental.com).  
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 VDW.CONNECT® App.

\* iPad® is not a trademark of VDW.



al servicio de su laboratorio y clínica dental

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