Installation and Instructions For Use of Software

Version 4.0

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Hardware Requirements
CPU: Pentium 4 or higher
Memory: 512 MB RAM or more
Hard Disk: 50 MB of free space
Operating System: Windows XP, vista, win 7
Screen and graphics card that support 1024x768 resolution

1. Installation Instructions

A CD containing two software programs and a USB Bluetooth dongle and extension cord are included in this package. The order of installation is as follows:

a. Installation of the IVT BlueSoleil software.
b. Installation of the ApexNRG-Blue software.
c. Pairing of the Apex Locator with the Bluetooth software.

1.1 Installation of the software and preparation for use

The installation is fully automatic, requiring only your approval by clicking on the buttons "Next" or "OK" during each phase. Do not change any of the installation options. Shortcut icons are automatically created for the IVT Bluesoleil and ApexNRG-Blue software on the desktop.

When installing on Windows Vista, Windows 7 or later operation systems, do not double-click on the installation icon. Instead, right-click and choose the "run as administrator" option for full and correct installation.

When installing on Windows XP, make sure the user account is the admin, not a "guest" for full and correct installation.

Updated version 4.0 enables you to choose how to use the software:
1. Follow the file's progress and documenting the procedure;
2. Follow the file's progress (measurement) only.
If you choose to follow the file's progress without documenting the procedure, click on the white "tooth" icon located on the desktop. Follow paragraph 2.2 in the user's manual.
If you choose to document the procedure results in the database, click on the database icon on the desktop. See paragraph 2 in the user's manual.
Please note: The program must be closed before you can click on an alternate icon; do not leave any screens open before choosing a different method of use.

A Bluetooth "Dongle" has been included with the device, to allow Bluetooth Wireless transmission between the Apex Locator and your PC. Even if you already have built in Bluetooth Wireless Technology in your PC, please use only the dongle supplied with the Apex Locator in order to ensure maximal connectivity.

Insert the ApexNRG-Blue software CD into the CD drive and proceed in accordance with the installation instructions in the installation wizard on your computer. The installation of the Bluetooth software (IVT BlueSoleil) will be directly followed with the installation of the ApexNRG-Blue software.

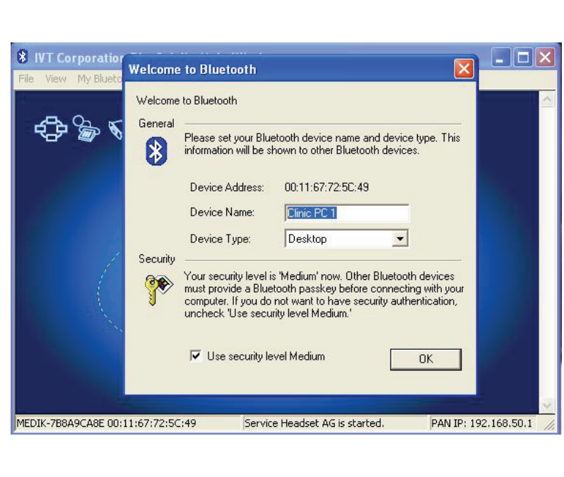
Upon completion of the installation of both programs, ***connect the dongle to one of the USB ports on your computer***. A small Bluetooth® icon will appear in the corner of your screen.

Turn on the ApexNRG Blue Apex Locator.

Note! Do NOT insert the dongle into a USB port before the installation of both programs has been completed.

1.2 Pairing the Bluetooth and the Apex Locator

If the IVT BlueSoleil Bluetooth software does not start automatically, run the software by double clicking its icon on the desktop. The following screen will be displayed: Enter a device name that will define your computer (for example "Clinic PC 1" or "Dr. Joe Laptop"). Click "OK". (Fig. A)


Welcome to Bluetooth

Welcome to Bluetooth

General

Please set your Bluetooth device name and device type. This information will be shown to other Bluetooth devices.

Device Address: 00:11:67:72:5C:49
Device Name: Clinic PC1
Device Type: Desktop

Security

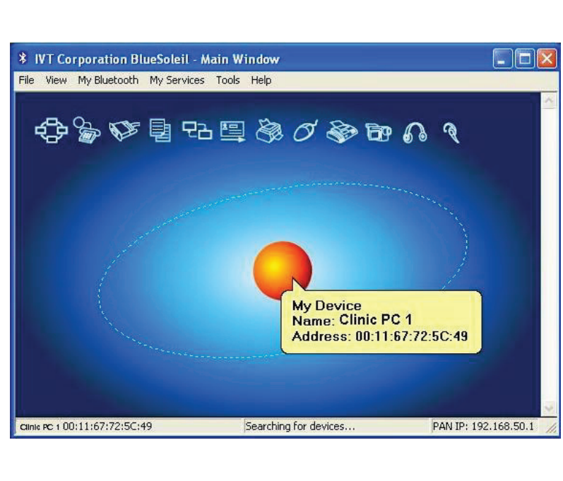
Your security level is 'Medium' now. Other Bluetooth devices must provide a Bluetooth passkey before connecting with your computer. If you do not want to have security authentication, uncheck 'Use security level Medium.'

☑ Use security level Medium

IVT Corporation
OK
MEDIX-7B8A9CA8E 00:11:67:72:5C:49
Service Headset AG is started.
PAN IP: 192.168.50.1

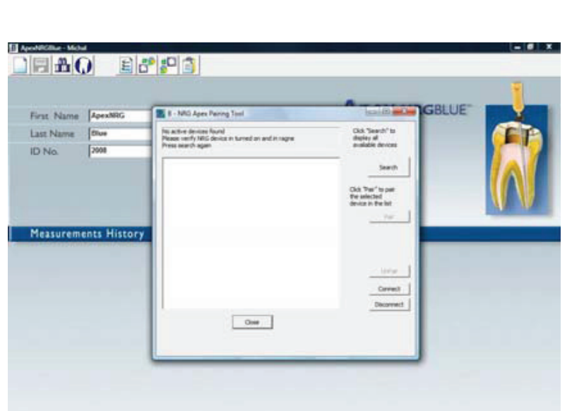
(Fig. A)

After the name is defined (Fig B), you must now CLOSE the IVT BlueSoleil software program, leaving only the ApexNRG-Blue software open.
A window which will enable the pairing of your apex locator with your computer will now open automatically.

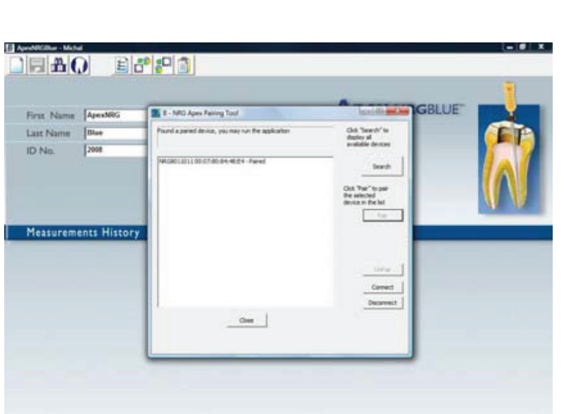

My Device
Name: Clinic PC 1
Address: 00:11:67:72:5C:49

(Fig. B)

The window will be titled "NRG Apex Pairing Tool" (Fig C).


(Fig. C)

The apex locator should be turned on to allow discovery of the device by the software. If the device has not been found, click "Search" again (the device should be found within 3-4 searches). The identification of the device may take a few seconds or up to a couple of minutes. Once one device or more has been identified by the computer, choose the correct device and then click "Pair" (Fig D).

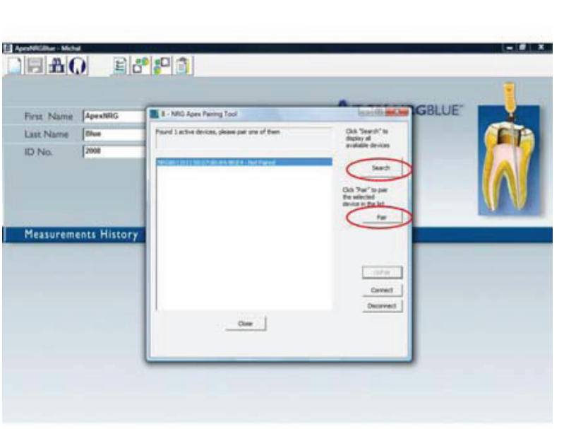

(Fig. D)

The device is now paired with the computer (Fig E). The device will now try to connect with the software; until the device is connected, the ON LED on the device will continue to flash. Once the device has been connected, the ON LED on the device will stay lit continuously, without flashing. This may take up to a couple of minutes.
The graphic file will not appear in the root canal on the measuring screen until the device is connected with the software.

Once the device is connected to the software, the blue icon in the corner of the screen will turn bright green, and the ApexNRG-Blue software may be used to begin measuring the length of the apex locator.

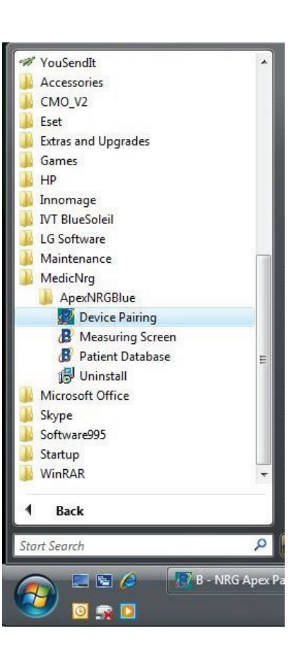
Important Note: If the device is connected (both the ON LED on the device is lit and the icon on the computer is bright green) but no file appears in the root canal the measuring screen, ***close the ApexNRG Blue software completely and then re-open the software***. The file should immediately appear in the canal. This is simply caused because the device may not have been turned on before the software was opened.

Note! The device does not need to be paired each time the ApexNRG-Blue program is used. The device should stay paired with the software, unless it has been uninstalled from the computer, or you have used a different device with the software. If the program does not open the pairing screen, the device does not need to be paired again.


(Fig. E)

1.3 Unpairing a device

Note: A device should only be unpaired if a different device is to be used on the current computer.
Before doing so, ensure that all of the other windows of the ApexNRG Blue software program are CLOSED. Do not unpair a device while the database or measurement screens are open.
In order to unpair a device, you must manually open the NRG Device Pairing Tool (in the program menu – see Fig F).
Once the device has been detected (you may need to click on the "Search" button), choose the device to be unpaired. Then click on the "Unpair" button.
You may now pair a different device.



(Fig. F)

1.4 Device Registration

Upon finalizing the installation of the software, please register your device with MedicNRG, in order to allow periodic software upgrades to be automatically sent to you in order to continuously improve your software. You may register the device at www.medicngr.com on the "Contact Us" form, please detail your name, email address and device serial number.

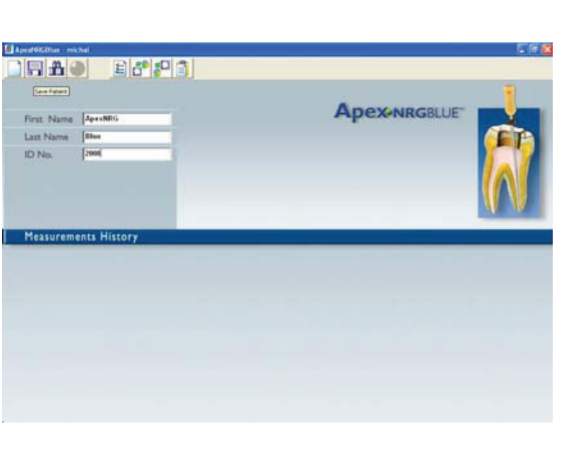
2. ApexNRG-Blue software – Overview

The program has two screens:
- The Patient Data screen
- The Measurement screen.

The Patient Data screen is always displayed first. Only after the patient has been identified / located can you proceed to the measurement screen.

2.1. Data Screen

The Patient Data screen (Fig G) displays windows for inputting patient data and features eight buttons.



(Fig. G)

Four operative buttons:

New Patient. Click on this button to open a new patient file.

Save Patient. Click on this button to save new patient information. Identical ID numbers cannot be saved.

Search Patient. You may search the patient database by entering one letter or number and clicking on this button.

Measurement. Only after a patient has been entered / selected will this button become available.

Four system buttons:

Set Up Database Location. Used to define the location of the nrg.mdb data file. You can change the file path in cases where several workstations are on a network and the file should be located on the network and not on a local hard disk.

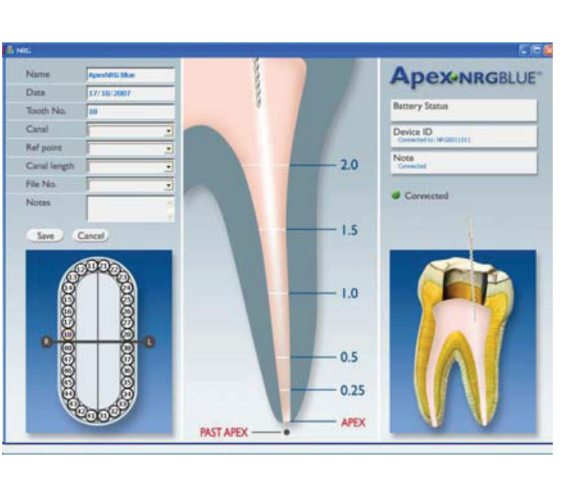
Backup Data. This function enables the data file to be saved in a backup directory. The date of the backup is automatically added to the filename enabling restoration of data from a specific date.
It is recommended to back up data on a regular, daily basis. In addition, the data should always be backed up before updating the software version, uninstalling or installing a new version. The default location of the database is in the MedicNRG folder in the Program Files directory. This directory is not deleted when uninstalling the software.

Restore Data. Enables the user to restore data saved using the "Backup Data" function.

View User Log. This function is used to view the user log (log in and log out) of different users, in compliance with HIPAA requirements. Every entry to and exit from the system is documented in the user log. The user name is automatically retrieved from the operating system.

2.2 Measurement Screen

The Measurement screen (Fig H) is divided into three sections:



(Fig. H)

1. The left section is used to document treatment and includes fields for selecting the root canal type, the reference point, the canal depth, and the file number, as well as a "Notes" field for entering comments pertaining to the treatment. Below that is a dental chart for selection of the tooth being treated.

2. The middle section of the screen displays a graphic representation of the root canal for simulation of the progress of the file within the canal.

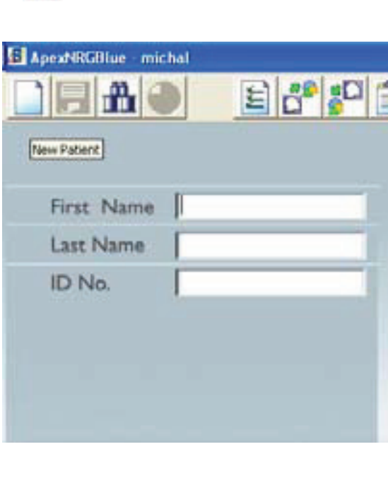
3. The right section of the screen contains three fields displaying the device battery status, the device ID no., and messages including the communication status. A cross section of the tooth is also displayed.

3. Using the ApexNRG-Blue software

3.1 Opening a New Patient Card

If the patient is a new patient, who has not yet been entered into the database, click the "New Patient" button and enter the patient's information (Fig I).

Next, click the "Save" button.



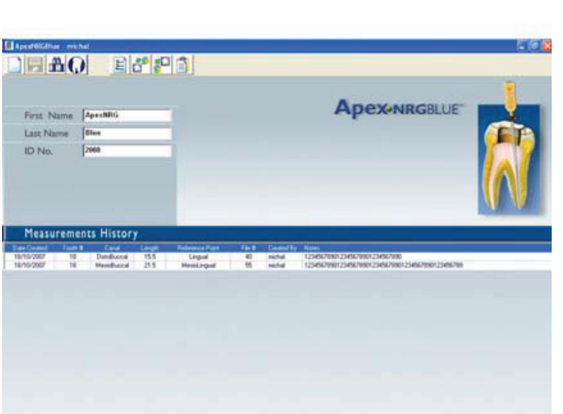
(Fig I)

Once the patient's information has been defined in the system the "Measurement" button becomes available. You may now click on the "Measurement" button, to proceed with the measurement of the canal, using the Measuring screen.

3.2 Searching for an Existing Patient

Enter the first letter of the patient's first or last name, or the ID number in the relevant field, and click on the "Search" button

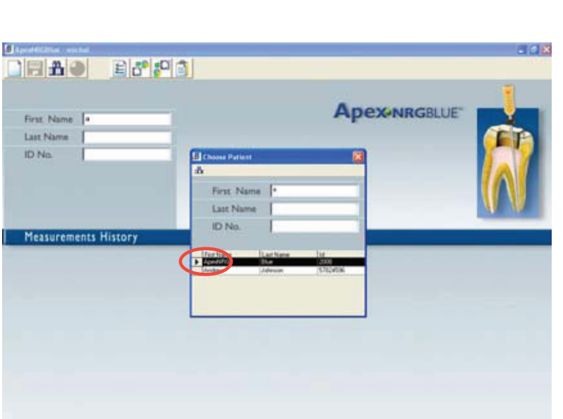
If the patient has already been defined in the system, the patient's card is displayed with the patient's Measurements History below the patient's identification information. If the patient's card is not displayed (in the case of a new patient), the message "Patient Not Found" appears at the bottom of the screen. In this case, enter the first
and last names and ID number in the appropriate fields and click the "Save" button . The "Measurement" button becomes available (Fig J).



(Fig J)

3.3 Selecting an Existing Patient from a list

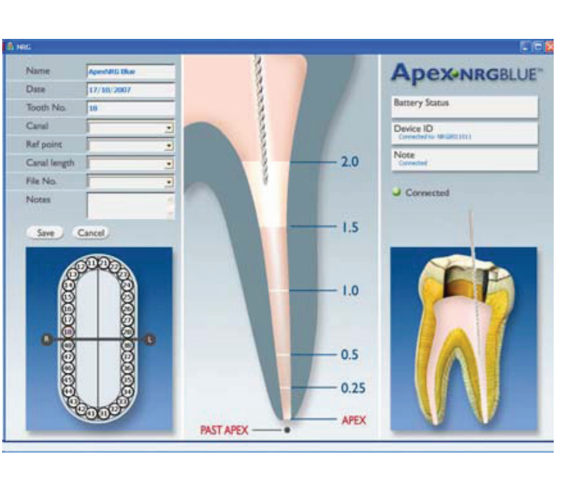
Perform the steps above, in section 3.2. A list of all the patients whose information corresponds to the information entered is displayed.
Upon identification of the desired patient, position the cursor over the left most column in the desired row and double click (Fig K). The patient's card is displayed with the patient's "Measurements History" and the "Measurement" button becomes available.


(Fig K)

3.4 Documenting the treatment / measurement.

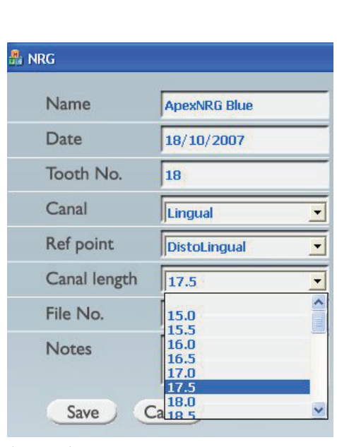
3.4.1. Click the Measurement button . The Measurement screen (Fig L) is displayed. If the apex locator is paired and connected to the software, a file will appear in the root canal on the graphic display.

3.4.2. Begin the procedure and track the progress of the file in the root canal via the simulation on the screen. The simulation is identical to the results reported by the device's LED lights and audio alerts.



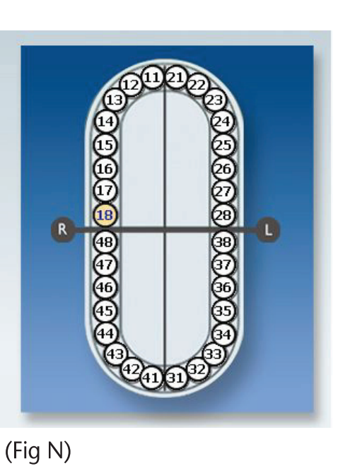
(Fig L)

3.4.3 After finishing the procedure, enter the measurement data into the appropriate fields (Fig M). Select the tooth by clicking the dental chart on the left hand side of the screen (Fig N). In each field, select the appropriate definition. A list of definitions is displayed by clicking the arrow to the right of the field. Click on a definition to select it. Alternatively, you can get to the desired definition quickly by keying in the first letter of the desired option. If several definitions share the same first letter, an additional click on the same letter displays the next definition beginning with that letter. In the "Notes" field, you can key in up to 50 characters of text.


NRG

Name: ApexNRG Blue
Date: 18/10/2007
Tooth No.: 18
Canal: Lingual
Ref point: DistoLingual
Canal length: 17.5
File No.: 15.0, 15.5, 16.0, 16.5, 17.0, 17.5, 18.0, 18.5
Notes:

(Fig M)



(Fig N)

3.4.4. After you have filled in all the fields, click the "Save" button to save the data. If data was keyed in incorrectly, you can cancel the selection by clicking the "Cancel" button on the Measurement screen and then enter the data again. All of the fields are mandatory, and the record cannot be saved if all of the fields are not filled in.

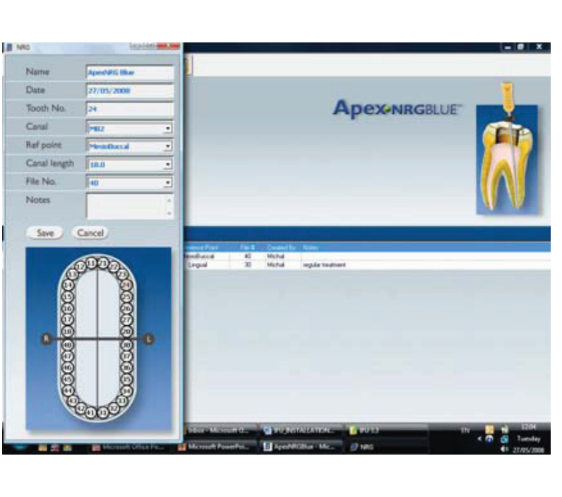
3.4.5 After saving the information, the data screen is displayed. The last treatment performed is at the bottom of the list, following the previous treatments. If you are carrying out additional treatment on the same patient, that patient's data continues to be displayed on the screen.

To continue working, click the Measurements button again and repeat the steps starting at section 3.4.2.

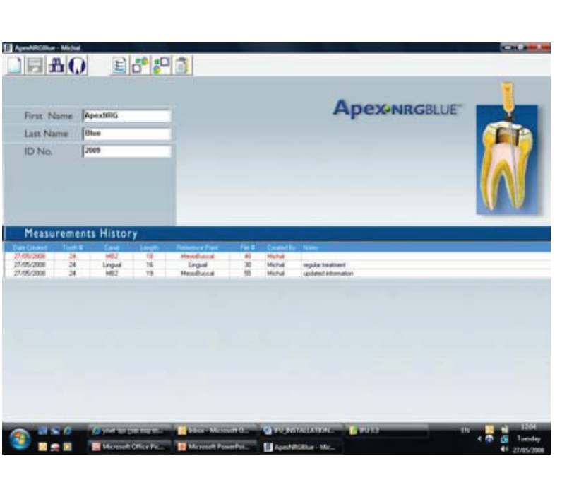
If you wish to carry out treatment on a different patient and the previous patient's data is still displayed on the screen, click the "New Patient" button and open a patient card in accordance with the instructions beginning in section 3.1.

3.5 Correcting / updating the treatment / measurement.

You can correct or change the data of procedures already saved, but only those performed on the current day. This is to ensure that you do not mistakenly overwrite data from previous treatments. Open the patient's data history, and double click the relevant row to select it. The data entry window is displayed for inserting the update / correction (Fig O).


(Fig O)

After saving, the original record turns red, while the new record remains black, and goes to the end of the list (Fig P).



(Fig P)

4. FAQ

Question	Solution
1. How can I get help if I need support during the installation of the software?	Any question you have can be sent to our support team at support@medicnrg.com
2. How soon will I get an answer from MedicNRG's support team?	Within 2 business days
3. Will other Bluetooth® enabled devices in the area affect the device or its connection to the software (cell phone, laptops, etc.)?	No, there should be no effect on the ApexNRG Blue device or software. However, you must use the included dongle.
4. I have an error notice during software operation – what do I do?	Please press the PRINTSCREEN button on your keyboard to take a picture of the error. Copy the picture to a word document and send the picture to our support team.
5. Can I use my computer's built in Bluetooth® system instead of the supplied dongle or a different dongle already plugged in?	No, you must use only the supplied dongle to ensure maximal connectivity.
6. What is the maximum range of connectivity between the device and the computer?	Up to 10 meters (30 feet). The dongle should always be in line-of-sight with the device. You may use the included USB extension cable if needed. The extension cord can help maximize the connectivity range.
7. My device was not detected by the NRG Pairing Tool.	Make sure device is on and within range. Sometimes the "Search" button must be pressed 3-4 times until the device is detected.
8. My device has been successfully paired with the software; however, the measuring screen still does not display a file and the device is not detected.	Make sure the device is still turned on (there is an automatic shut off). If after a few minutes the software is still searching for the device, please completely shut down the software and re-open. The file should immediately be present in the canal. This is a known issue we are working to improve.
9. Why does the Bluetooth icon change from blue to green?	This is to confirm that the device is connected with the software (icon is green), as opposed to when the computer is ready to search for a device (icon is blue).
10. What happens when the file disappears from the canal?	This is a safety feature that demonstrates a connectivity issue. You can continue measuring the canal length based on just the device LED display. In order to continue using the graphic display, make sure the device is turned on and in range. Make sure the B icon is green. If the file does not return to the display within a couple of minutes, shut down the program and reopen. The file should be back in place.
11. Can I use my device on different computers?	Yes, of course. The ApexNRG Blue software must be installed on each computer separately. The device needs to be paired with each computer as well (first use only or after switching devices).
12. Can I use more than one apex locator on the same computer?	Yes, but before using a different device, the previous device must be unpaired, using the NRG Pairing Tool (see section 4).
13. I cannot save measurement data.	All of the data fields are mandatory, in order to ensure a full documentation of the procedure. Upon filling out all of the fields the data will be saved.

5. Battery Operated

For your convenience, we have included AA rechargeable batteries and a battery charger. During transmission of the measured data, the device has a higher electric consumption. Therefore, we recommend keeping one battery charged and ready for replacement. The device may also use regular AA batteries, which should be replaced regularly. ***Note! Charge only rechargeable batteries!***

Please note: Do not store the device for long periods of time with the battery inside. The battery may leak after a long period of disuse.
Please remove the battery when storing for an extended period of time.