

**ER**  
SYSTEMS

# Royal Analyzer Pro 6000



**USER  
MANUAL**

**2 SEARCH SYSTEMS**



THANKS FOR PURCHASING  
OUR PRODUCT



ROYAL ANALYZER  
**PRO 6000**

**Device User Manual**



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## General Information:

- ▶ When bringing the device from different environments, you must wait some time to adapt to the ambient temperature.
- ▶ Use the original charger and power bank that came with the device.
- ▶ When using the device, it is necessary to avoid hitting the main unit and the scanning sensors with solid objects during the search process.
- ▶ When operating the device correctly, it does not cause any injury or health problems and does not pose any threat to the human body.
- ▶ In order to extend the life of the device, it must be charged with the supplied charger and not charged longer than the maximum charge required.
- ▶ Upon completion of the search process, keep the device in its original bag.
- ▶ The company does not bear any responsibility in relation to areas that require legal obligations.
- ▶ Users must bear full legal liability where this device is used.

# Royal Analyzer Pro 6000



## Full Package

### The product is delivered as shown below

The main unit of the device, tablet, wireless headphones, charger and power bank are provided as part of the delivery.



Main Unit



Case



Tablet



12V Charger



Power Bank



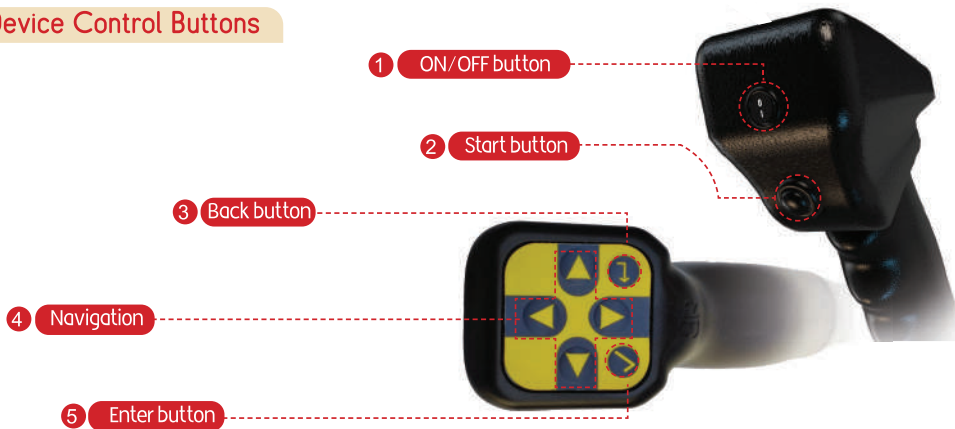
Headphones



Tablet Charger



## Device Control Buttons



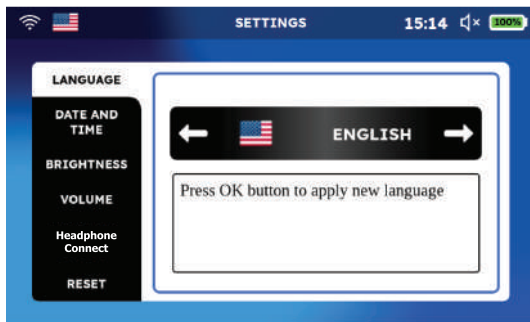
**By the buttons on the handle of the device, you can choose from the menu.**

- 1 ON/OFF button under the handle:** allows you to turn on / off the device
- 2 Start button under the handle:** Allows you to start automatic scanning / send a signal to continue manual scanning
- 3 Back button:** In the main menu of the device, it allows you to return to the previous menu
- 4 Navigation buttons:** Allows you to change between menus
- 5 Enter button:** Allows you to activate the selection



## General Settings

- ▶ You can adjust the desired settings via the navigation buttons, such as adjusting the volume and screen brightness. The set settings will be kept in memory.
- ▶ The desired settings will be saved in the device memory.
- ▶ **The device has 10 different languages:**  
When you choose one of the languages English - German - Spanish - Italian Turkish - French - Arabic - Persian Russian - Urdu, the device menu language will be changed on the top bar, and the selected language shortcut will appear.

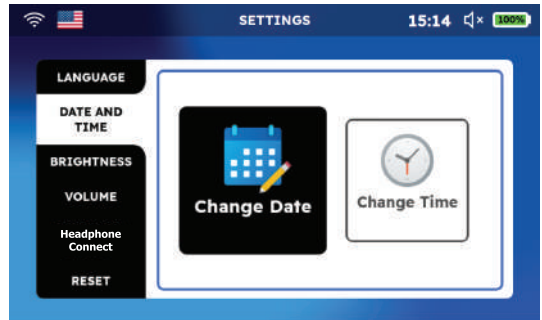




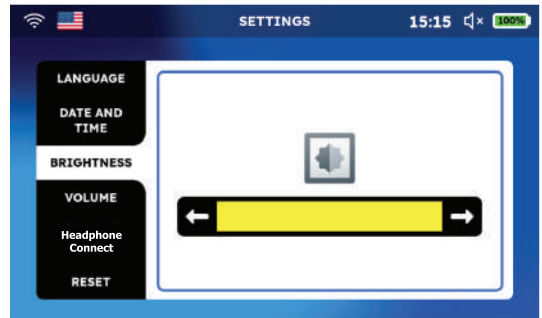


► **Setting the date and time:**

Via the navigation buttons, you can increase and decrease to set the correct time and date and the time will appear on the top bar of the screen permanently.

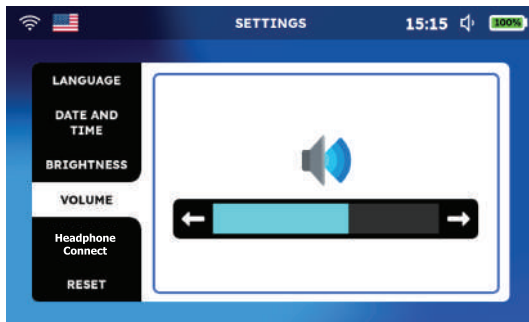


► **Brightness:** The brightness of the screen is determined by the navigation buttons.

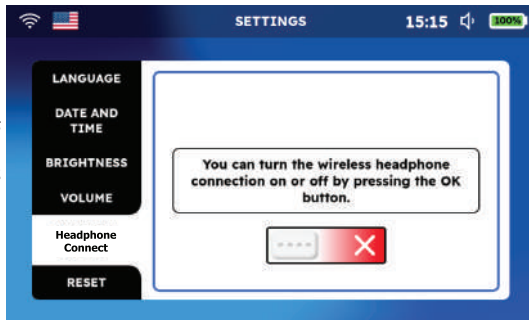




- **Volume:** The volume of the device is determined by the navigation buttons.

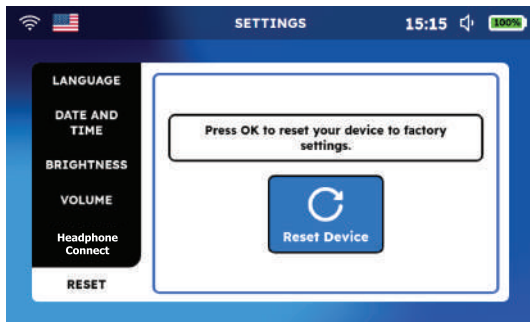


- **Wireless Headphones:** When pairing the wireless headset with the device, the headset must be sufficiently charged, and the device is completely off the boot state, the image of the wireless headset will be displayed on the top bar and a sound will be heard indicating that the headset is connected, and all sounds of your device will be transferred to the headset.





- **Reset:** You can also reset the device settings to the initial basic settings at any time by choosing Reset device.



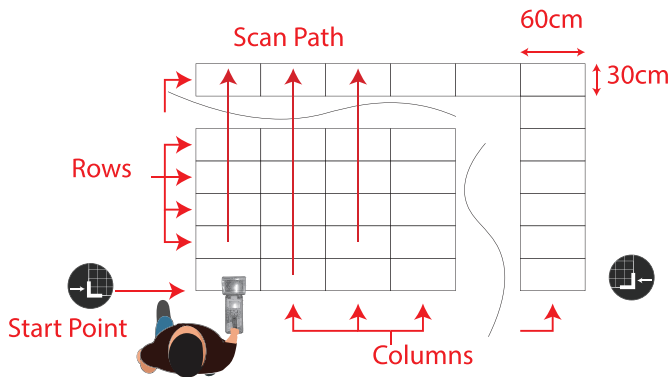


## General Instructions before using the device

- ▶ Before starting scan process you should eliminate the jewelries, bracelets, hand watch and others, and make sure that shoes are free of any metal pieces, and keep this accessories away from the scan area.
- ▶ Start the scan process from north to south to get more precise results.
- ▶ Define the soil type for the scan area.
- ▶ When moving above scan area keep a distance of 10 cm between the two scan sensors and the ground, and the two sensors should be right angled vertically with the ground, and move balanced without any vibrating the device.



- ▶ Device direction should not be changed regardless of the scan path continuously in both systems, live scan and 3D ground scan without rotating and changing the scan direction whatever the scan mode is, parallel or zig zag as shown in the graph below.
- ▶ When scanning make sure that your steps are suitable with the device step moving of 30 cm, and moving a side step right or left according to scan start point of 60 cm.





# Device Systems

and how to use





## Live Scan System

### Through the device screen

The Live Scan system can be used either by the device tablet or by the device screen, and they cannot be operated together.

- ▶ Rotate the device handle as shown in picture (1).
- ▶ Open the front and back sensors with a right angle with the ground to get a bigger scan area and more precise as shown in picture (2).
- ▶ Press the ON/OFF button under the handle to switch on the device.
- ▶ Choose the Live Scan from the device screen through navigation buttons.

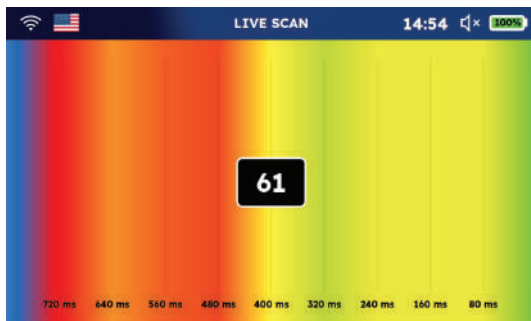
Press enter button  the device will start sound notifications before moving press enter  again so the device does self-calibration and the sound will stop and screen color will change to green, here the device is ready to start scan process. Start moving forward steps from north to south with a 30 cm for each step where the distance between the device scan sensors and the ground is 10 cm right angled (90 degrees) with the ground as shown in Figure.



# Royal Analyzer Pro 6000



When getting close to metal target red color will show up, and when getting close from voids blue color will show up with increasing or decreasing the sound alarm according to the distance between the device and the target and this what makes the Royal Analyzer special in the ground imaging systems and makes prospection process more easy, (you can use headphones for this system)



Each color that appears on the screen symbolizes a specific goal as shown in the table.

Green	Soil
Orange and Yellow	Minerals
Red	Metals
Blue	cavity

There you can get in live scan for the underground with no need for photo analysis for each scan aside and you can use the 3D ground scan system to get a target photo more precise.

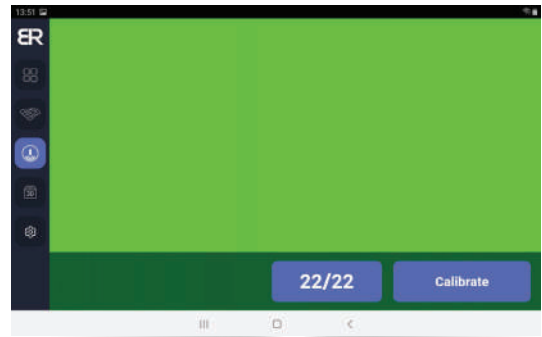
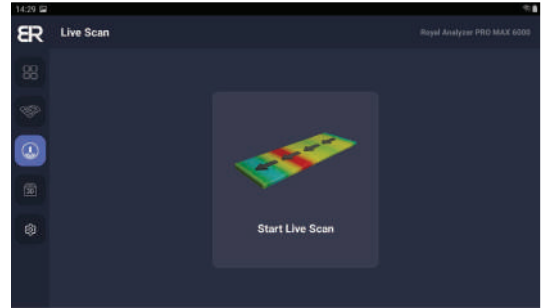




## Live Scan System

### Through the tablet screen


- ▶ Choose the live scan from the tablet screen from the left menu icon 3 choose the live scan (Middle of the screen)
- ▶ Press on calibration from the tablet screen, continue as the live scan in the device screen.

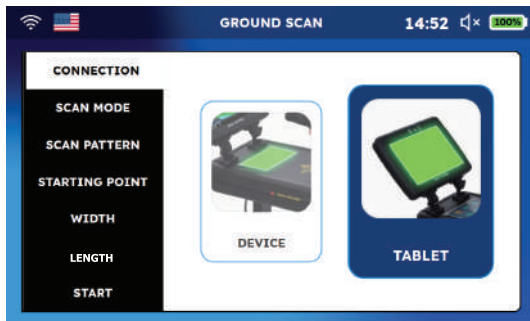




## Ground Scan System

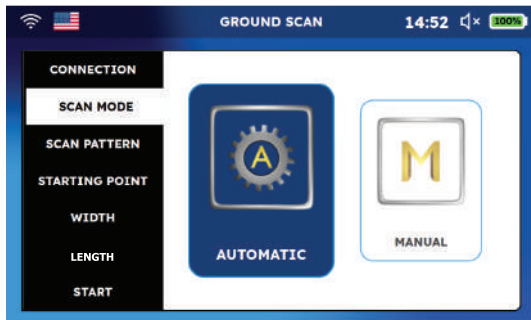
### Through the device screen

- ▶ Press start button  under the handle to switch on the device  
Press enter to enter the ground scan system.
  
- ▶ Choose display screen, device screen or tablet.

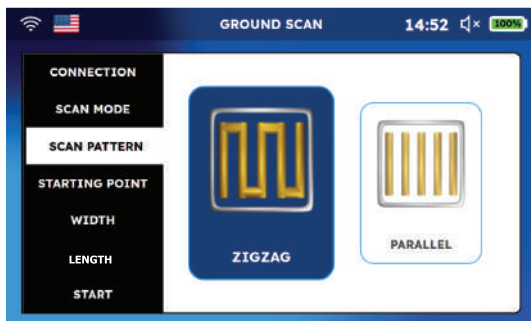




- Choose the scan mode, manual or automatic.

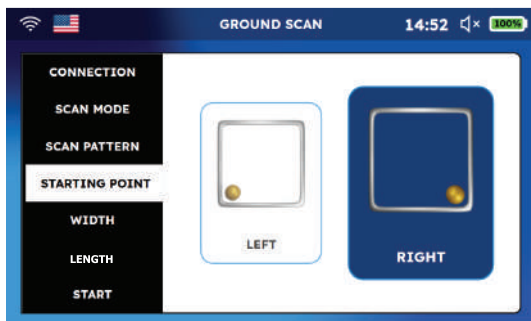


- Choose scan direction, parallel or zigzag.

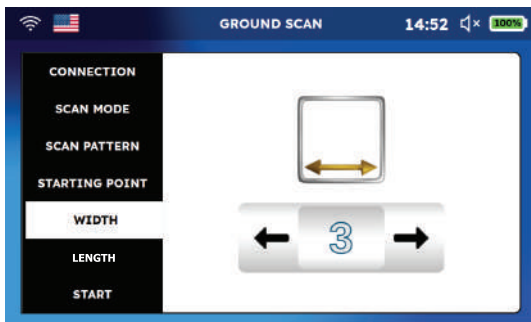




- ▶ Choose the starting point right or left.

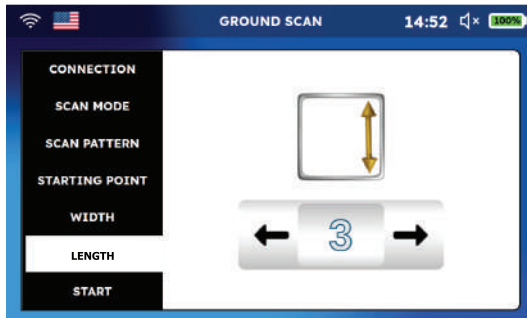


- ▶ Choose the scan columns number



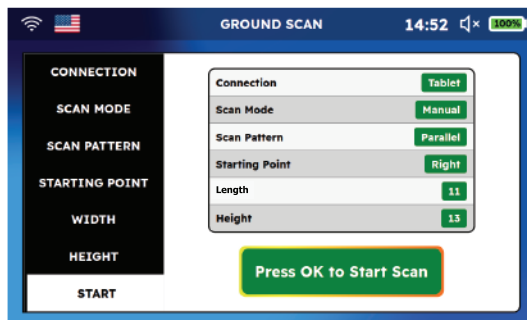


- Choose the scan rows number.



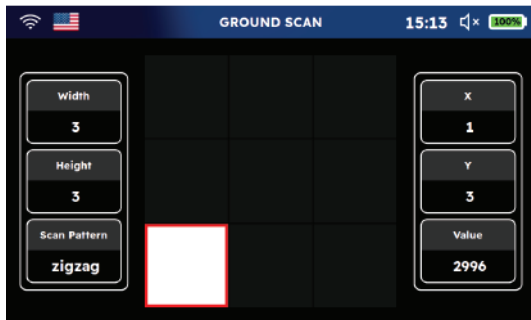
- This screen shows the scan parameters you chose earlier, press “Enter” to start scan.

Note: Make sure when operating the scan process that your steps are suitable with the speed of the device steps movement.

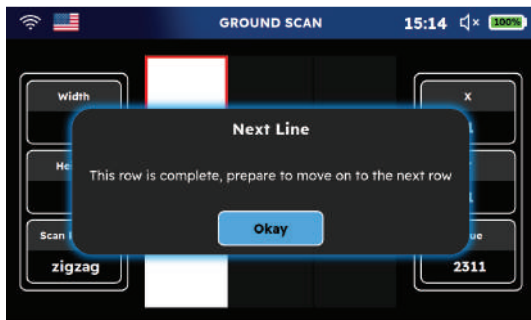




- ▶ Here the scan screen shows up, press the start key under the handle for each step in case of choosing the manual scan mode.

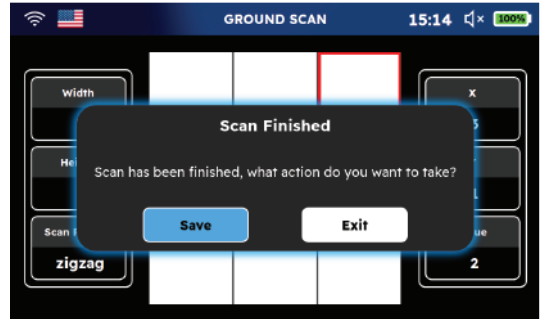


- ▶ In case of choosing the “Automatic” scan mode, press the start key once when ending each of the columns to be scanned.

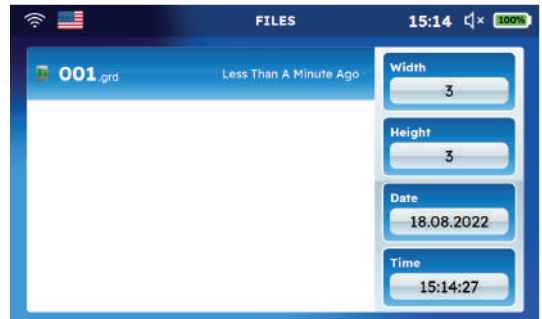




- ▶ This screen shows up when scan process is finished, you can save the result or exit.



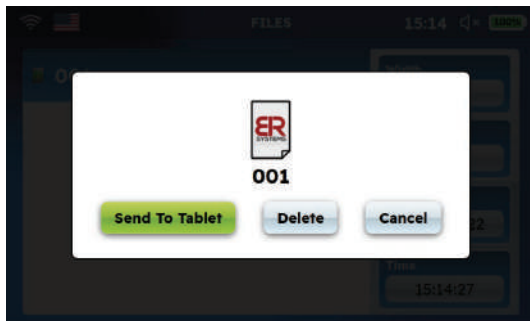
- ▶ This screen shows the scan processes you have saved earlier, arranged newest to eldest, choose the last scan process.





- ▶ When choosing the required scan process send the result to the tablet.

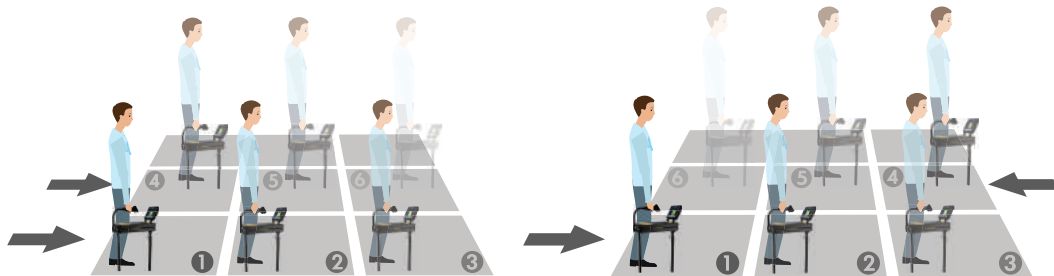
You can view it in a 3D shape to analyze the values and depths and you can also do filtration process (Look at scan result interfaces through the tablet).







- ▶ Figure 3 and figure 4 shows the two scan types, parallel and zig zag in the 3D ground scan through the device screen or the tablet screen ( Note how to keep the scan path lined and to keep on the same direction, and going back while moving from one path to another with no need to U-Turn).



Parallel scan path

Figure No:4

zig zag scan path

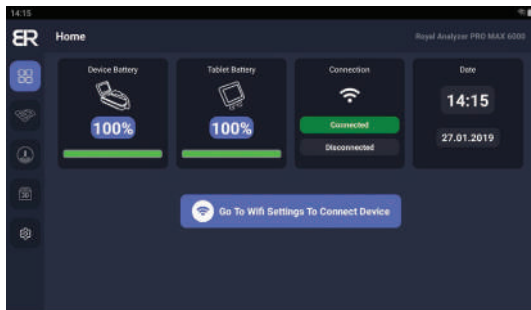
Figure No:3



## Ground Scan System

### Through the tablet screen

- ▶ After turning on the device and the tablet, you will see this interface which contains information about the device's battery level, the battery level of the attached tablet, the wireless network connection (Wi-Fi), and the time and date.



- ▶ Click the icon **2** to open the 3D Ground Imaging System.

Set your search parameters

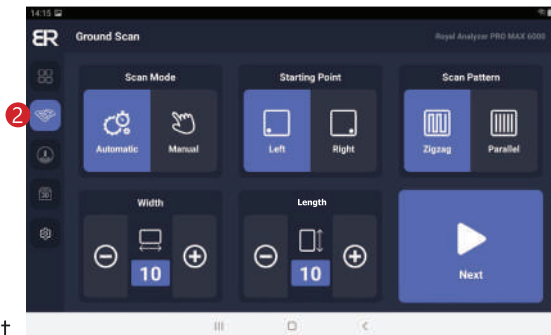
**Search Mode** "Manual – Automatic"

**Starting point** Right-left

**Scan direction** » Parallel - in one direction  
« Zigzag

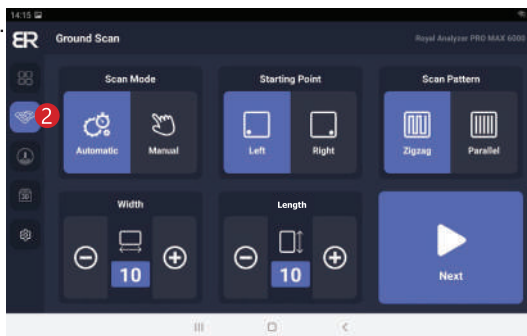
**Scan Width** » From 1 to 99 steps «

**Scan Height** » From 1 to 99 steps « Next

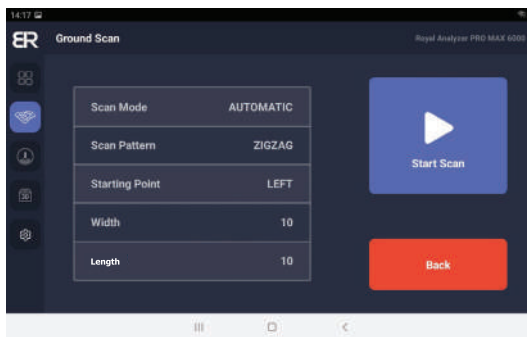




- ▶ Press icon ② to choose ground scan type. 3D ground scan system / manual scan  
Press enter button to continue scan process  
An interface shows up on the tablet, press next  
Then press the start button on each step of the scan steps  
Then continue



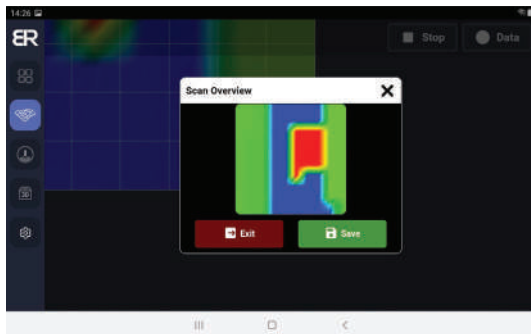
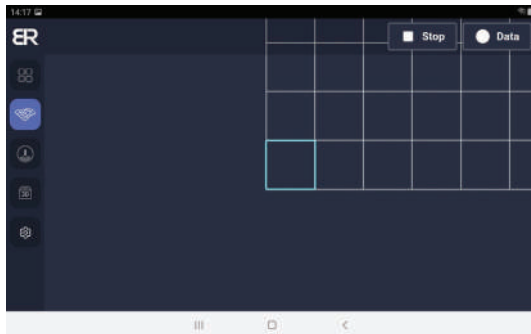
- ▶ When pressing on "Next" in the previous interface, a screen will appear containing the search parameters that you have chosen, in addition to "back" and the "start scan" icon as shown in the picture.





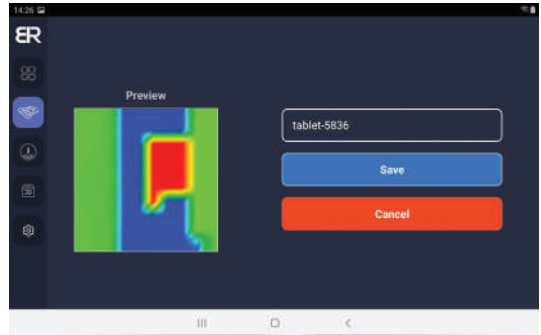
► When pressing on “Start Scan” icon from the previous screen, scan interface will appear on the tablet screen, see the photo. Let’s suppose that you chose the automatic scan system, press start, the device does the steps automatically and the step you walk should be suitable to the device steps with regards to the device speed, and when the first column is finished you need to press the start button under the handle to move to the second column until all are finished, a thumbnail for the scan result will show up as in the picture below.

► You can save the scan with a specific name to refer to in the future as shown in the picture or exit.

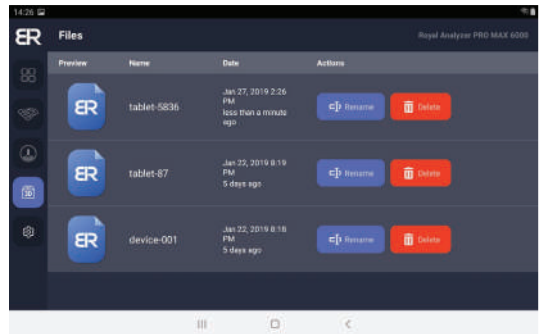




- And you can cancel the scan result.

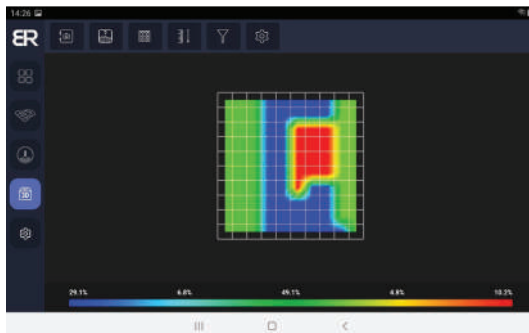


- When saving the scan process, a screen will show up with all saved scans so you can choose the required scan to view the target in 3D view, analyze it and get all target data.





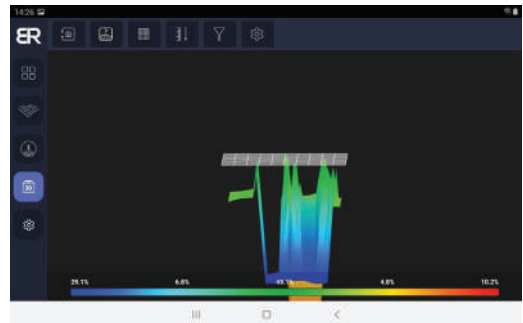
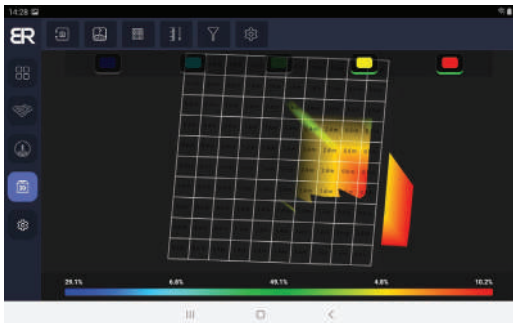
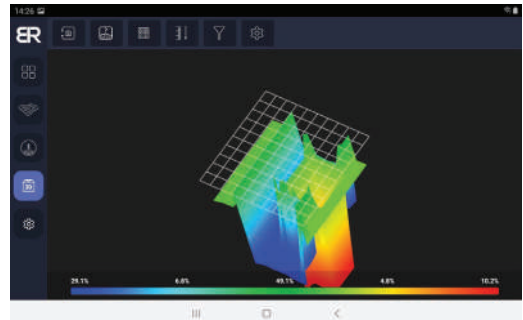
- ▶ This screen show the scan result from upper view in addition to control icons.





## Important Notes

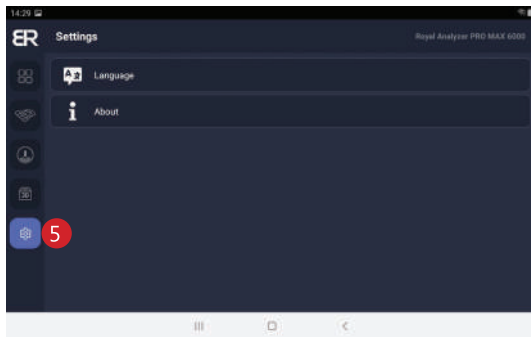
- ▶ You can move the scan result to see it from all direction and to better know the target shape in a 3D view and you can enlarge or maximize the target picture.



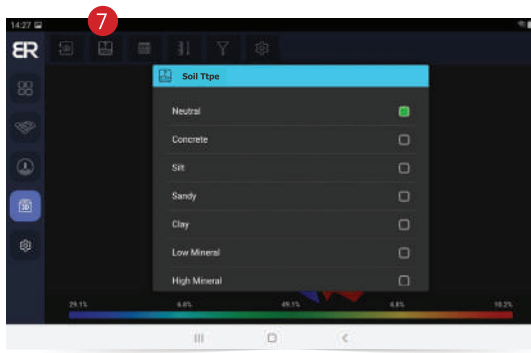
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- ▶ Press on icon **5**  
To get to the tablet app settings.



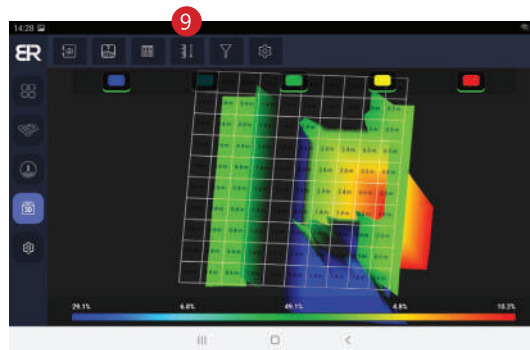
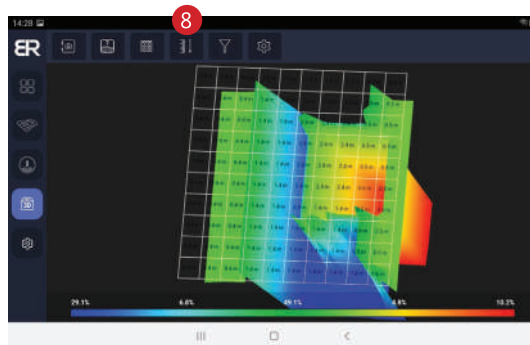
- ▶ Press on icon **7**  
To select the soil type you scanned.







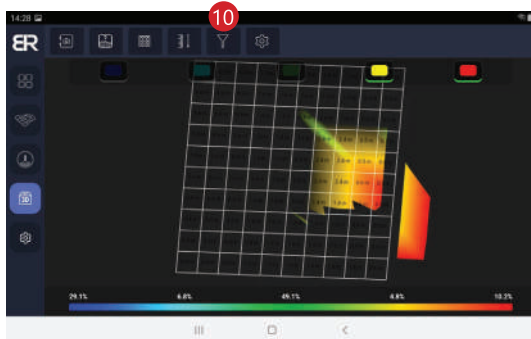
- ▶ Press on icon **8**  
To put a grid on the search result and divide it into squares, where each of the squares represents a step of the search steps in addition to numbers that show the value of each of the search points, which helps the user to know the type of target whether the target is a precious metal, a void, or the soil nature.
- ▶ Press on icon **9**  
To get the depth of each search point as shown in the picture.



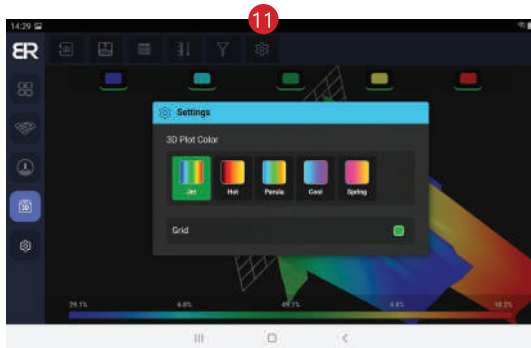
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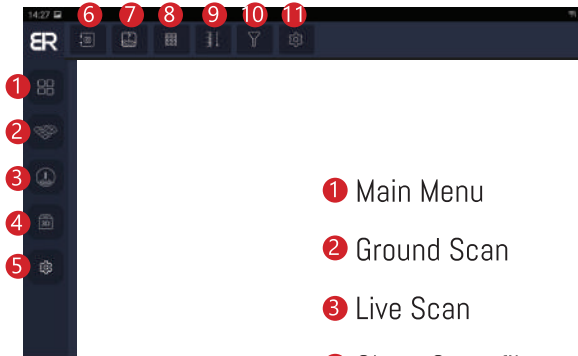


- ▶ Press on icon **10**  
To set search colors



- ▶ Press on icon **11**  
To get to the color settings.





- ① Main Menu
- ② Ground Scan
- ③ Live Scan
- ④ Show Scan files
- ⑤ Settings
- ⑥ Scan result filter
- ⑦ Soil Type
- ⑧ Show the point value
- ⑨ Show the point depth
- ⑩ Ground scan filter
- ⑪ Scan colors settings









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