



SMART RIVER

LONG RANGE LOCATOR



GER-DETECT
User's Manual

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Critical Warning

- Please make sure that all precautions are taken against risks.
- Do not use your device while it is raining, don't use the device beyond 15 days of rain.
- Turn on the device after you ensure all parts are in place and connected.
- Make sure that the device battery is fully charged before you start searching.
- If the indicator on the side of the device starts flashing, turn off the device and recharge the battery.
- When the battery will almost expire, the device will automatically turn off.
- It is recommended to read the user manual before starting on the device to avoid mistakes through the search.
- Be aware of (energy sources - phone networks - metals - mobile phones - electronic devices), and do not use any charger other than the original one.
- The device's main unit is under a two-year warranty against all electronic breakdowns, any damages caused by user errors (falls, opening the main unit, hits, harms, etc.) are not covered within this warranty.
- Battery, charger, and other accessories are not under warranty.
- You should strictly follow the instructions in this user manual to minimize faults and to use your device correctly.
- If the device is not used correctly, or there is a high noise rate, in these cases the device will not be capable of confirming the target and determining the depth.

We wish you all the best of luck in your search.....



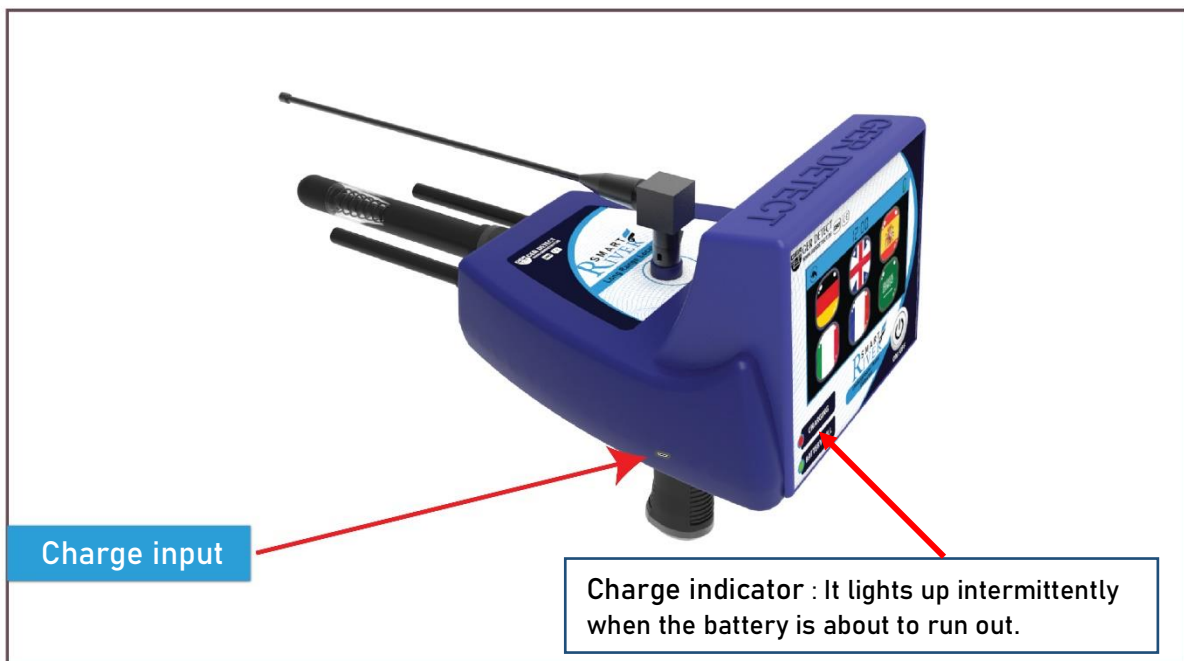
(Overview)

Dear customer,

“Thank you for choosing RIVER F SMART”

- ✓ It has been completely developed into a RIVER F SMART device with the addition of more systems and the development of new characteristics, and new professional techniques in finding water resources from long distances with high accuracy and determining the depth with ease and accuracy.
- ✓ RIVER F SMART is a multi-functional device for searching underground water, water wells, and water layers.
- ✓ Searching for fresh water and salty water.
- ✓ The RIVER F SMART device depth search is 500 meters underground and the front range is 3000 meters.
- ✓ The device works in six languages: German - English - French - Spanish - Portuguese - Arabic.
- ✓ The RIVER F SMART device is one of the best German manufacturers. It has the European CE certificate according to international specifications and the international ISO 9001 certificate according to international specifications and standards.
- ✓ This device is designed to be compatible and functional in all countries and regions.

Definition of the main unit buttons & LEDs



The device features and specifications

The RIVER F SMART device has multiple features to search for groundwater, water wells, and water sources underground:

- Super speed in finding and locating water sites.
- The system for determining the target depth easily and accurately.
- The system for specifying the continent in which you search.
- A screen that supports the touch system which contains many advantages and features.
- An electronic thermometer within the device screen that measures the weather temperature.
- A digital clock
- The possibility of muting and activating the device's sound.
- Super Antenna which enables the device to cover large areas of research.
- A radar search dish to receive and improve the signal.

RIVER F SMART device parts connection



Install the device handle



Install the Super Antenna



Install enhancer antennas

Install recipient antenna



RIVER F SMART device operation steps



After turning on the device, the following data will appear on the main screen:

Battery level indicator - clock - temperature - activate and mute button.



1- Settings icon:

It contains the working languages of the device, which are:

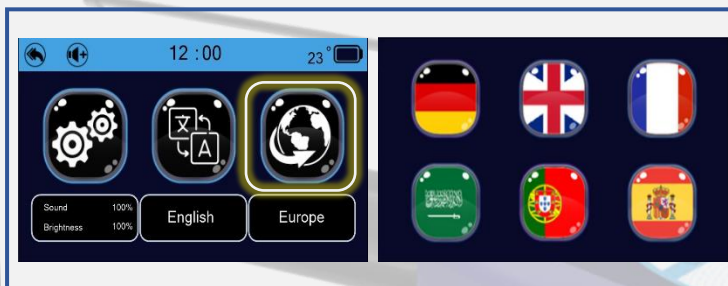
German - English - French - Spanish - Portuguese - Arabic

Device settings icon through which you can set:

Sound level - brightness level - time settings - device information

Locate and choose the continent icon you want to search in.

This unique feature was added due to the different frequencies of underground water from one continent to another.

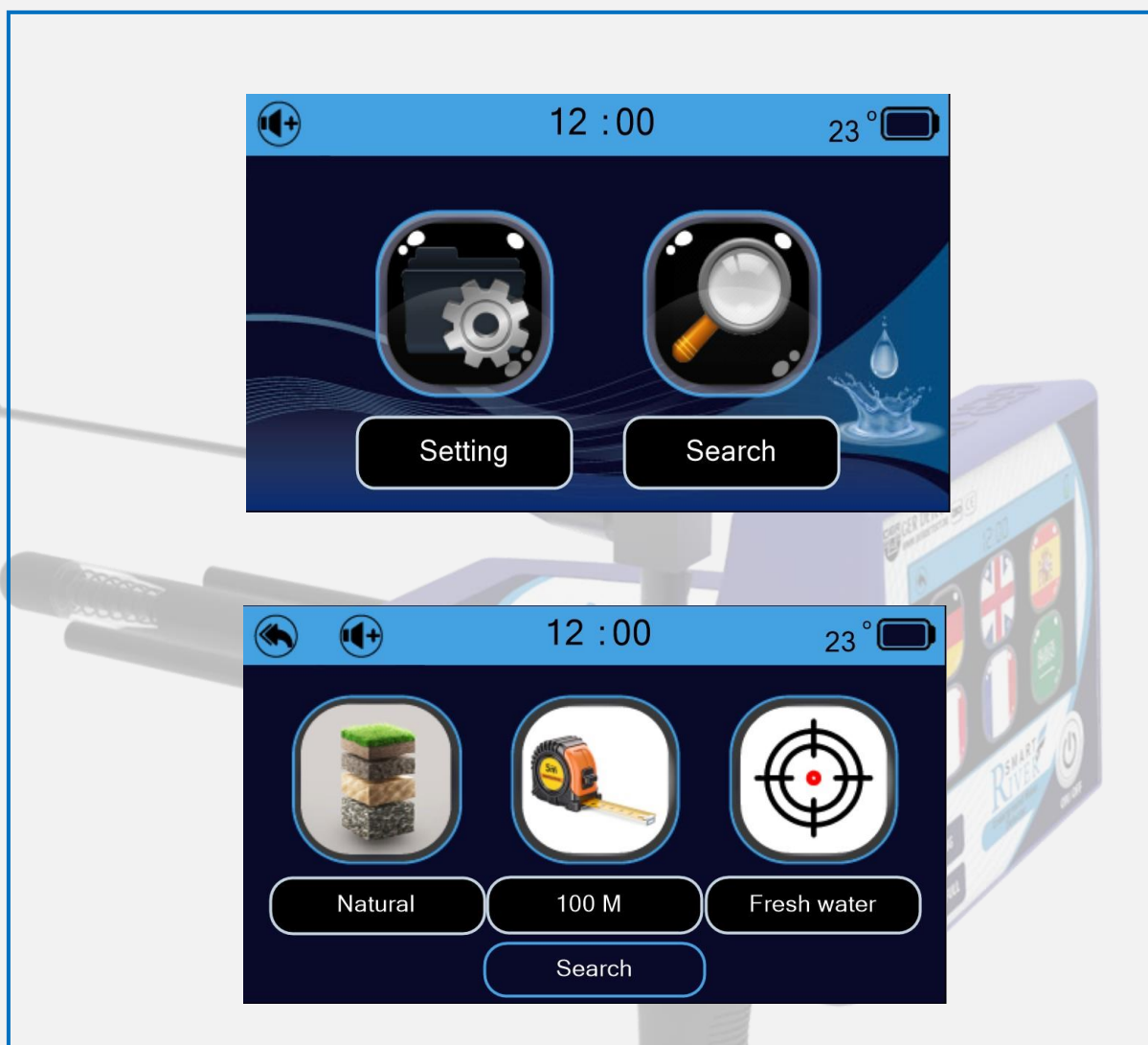




2- Search options:

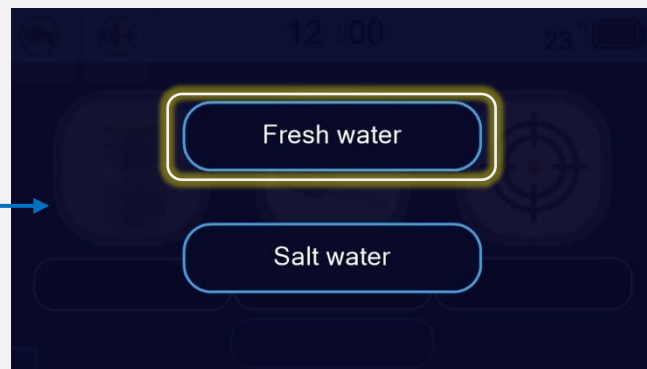
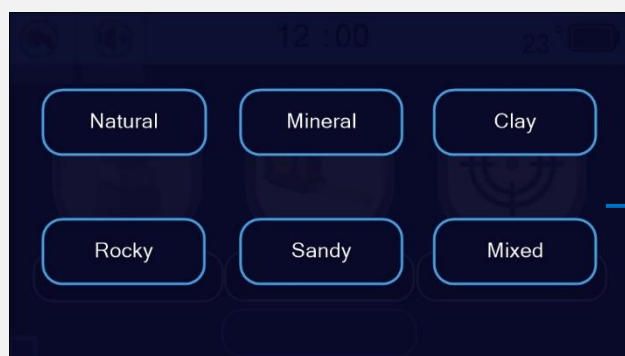
Choose the type of target you want to search underground.

Determine the front range of the device.



3- Search icon:

When you press the search icon, the device will directly start searching, depending on the preset settings saved by the prospector, which are (Water type - front range - soil type).



You can choose the type of soil in the search area (clay - mineral - natural - mixed - sandy - rocky).

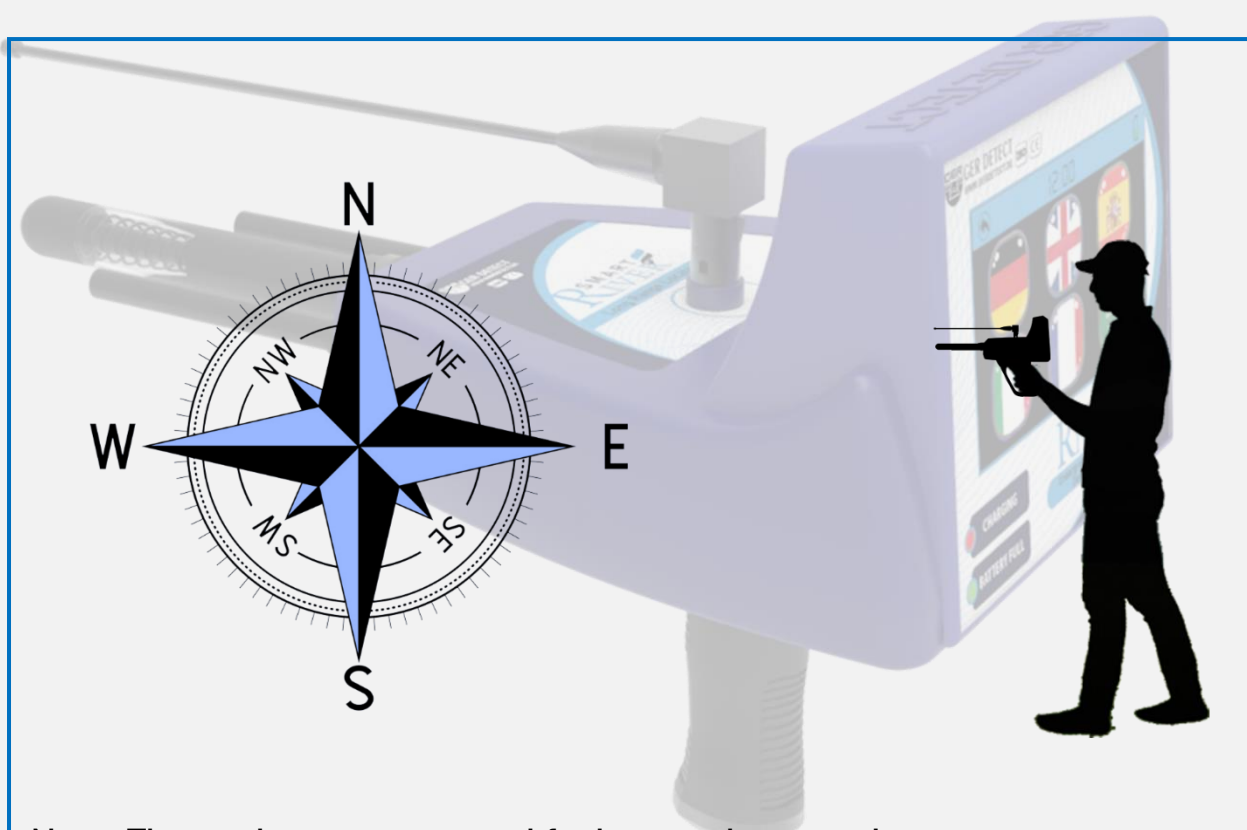
Then choose the water type you want to search for. (Example: Freshwater), which also appears on the front-range screen.



Then choose the front range you want to reach (from 100 meters to 500 meters - 1000 meters - 1500 meters - 2000 meters - 2500 meters - 3000 meters) (for example, 500 meters)

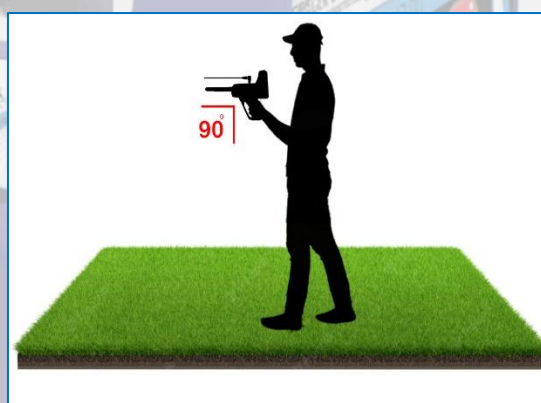
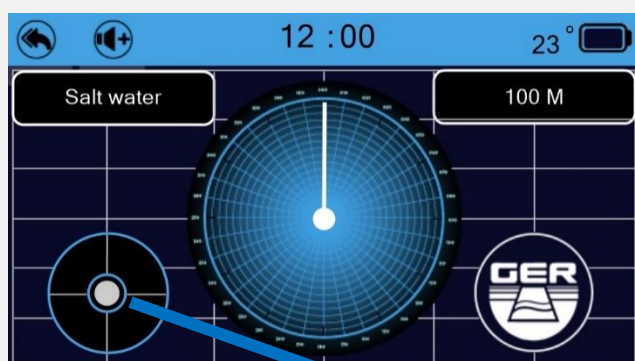
Example: If the front range of the target to be searched is expected to be within an area of 500 square meters, it is sufficient to specify the front range within 500 meters.

But if the front range of the target to be searched is unknown, you can specify the front range up to 3000 meters.



Note: The explorer must stand facing north to south.

The ionic fields are radiation emitted by underground water, water wells, and water layers after being underground for a long time. They overlap and interact with the soil, the nature of the earth's formation, and its regularity with magnetic lines to the north and south.

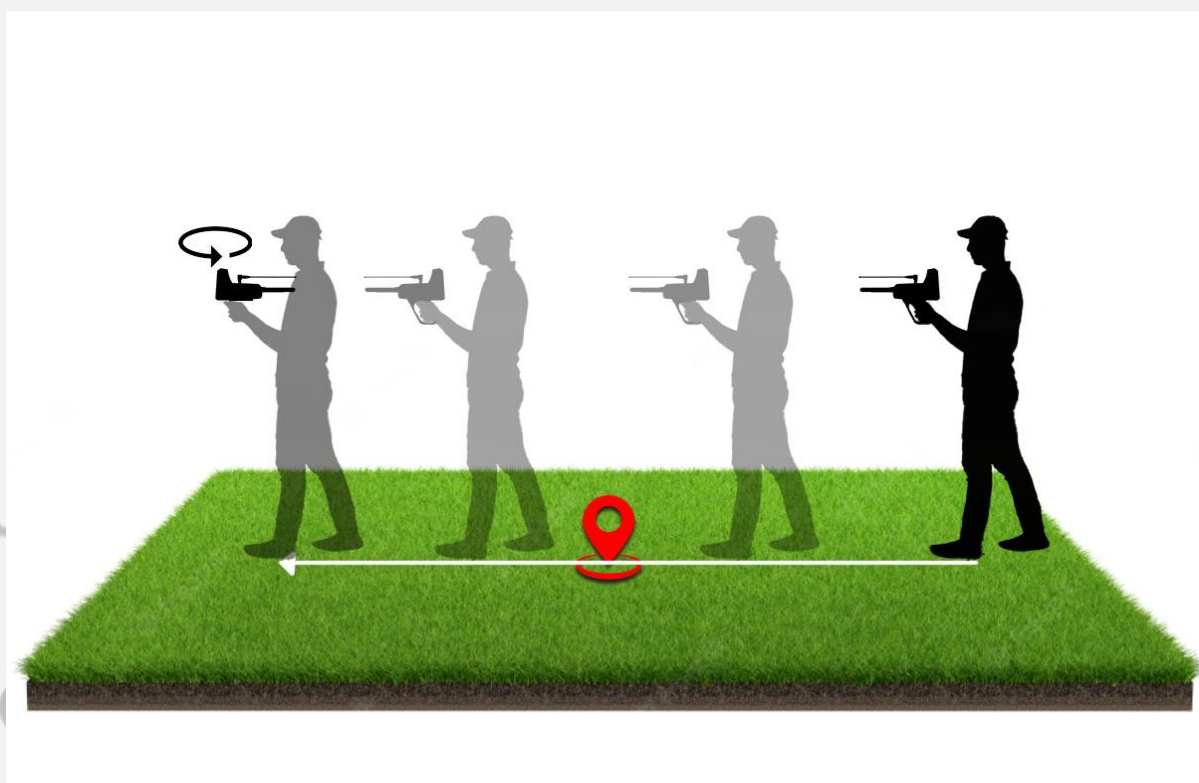


The balance of the device must be maintained during the search by fixing the grey dot in the middle of the circle icon.

The device will start sending and receiving signals directing you towards the target with a continuous sound.

When getting any signal, the device will directly turn towards the target with the target direction indicator appearing on the screen and the sound accelerating.

Confirm the direction of the target from all four directions to ensure that the target is reached more precisely.

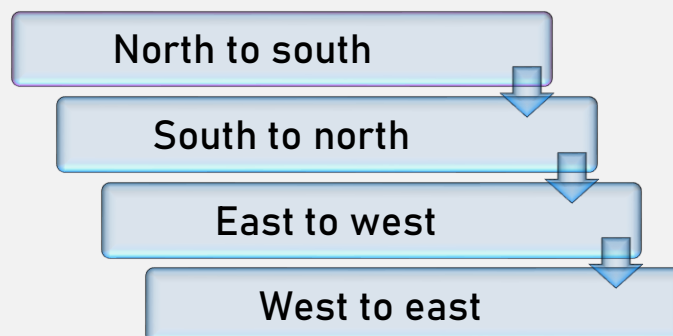


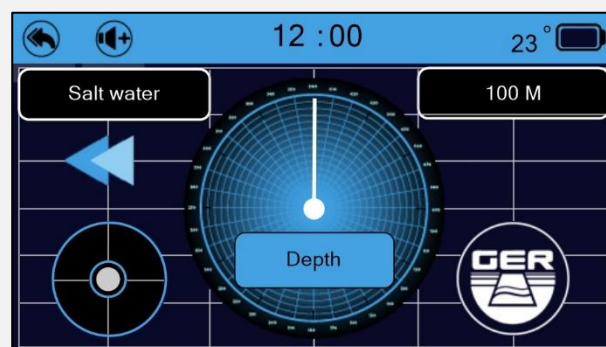
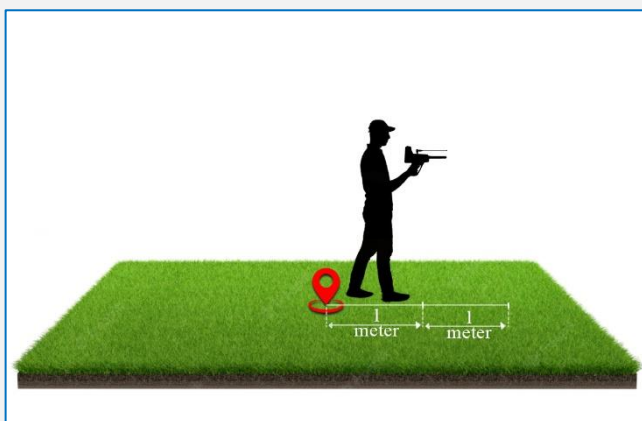
Follow the signal and when the device turns back you will have passed the target

Limit the search site by placing a mark that will be the center for target confirmation.

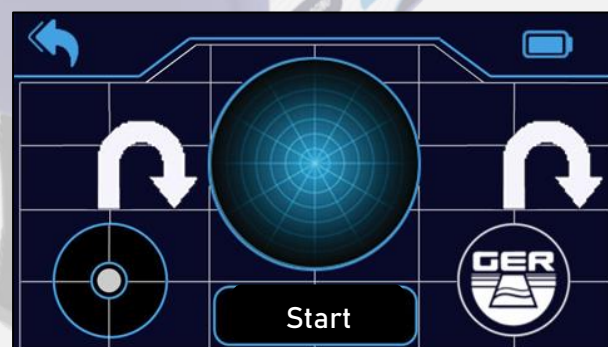
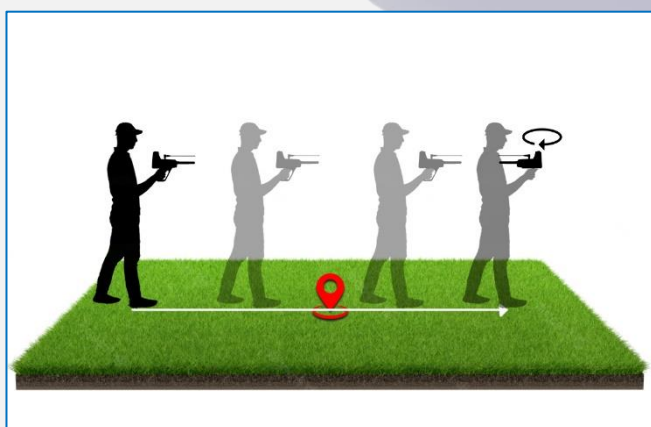
Then confirm the location of the target from the four directions (from south to north - from north to south - from west to east - from east to west).

When standing above the center of the target, the device will rotate directly above the target.

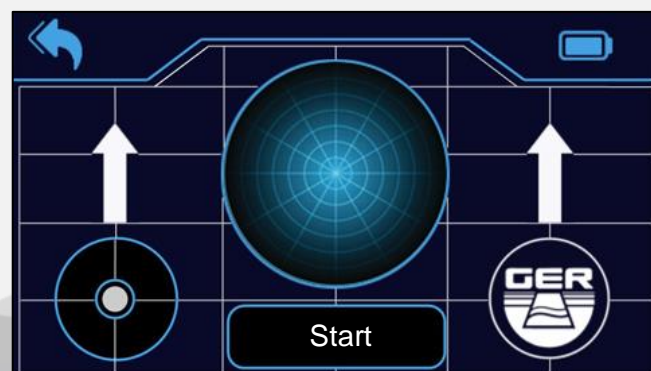
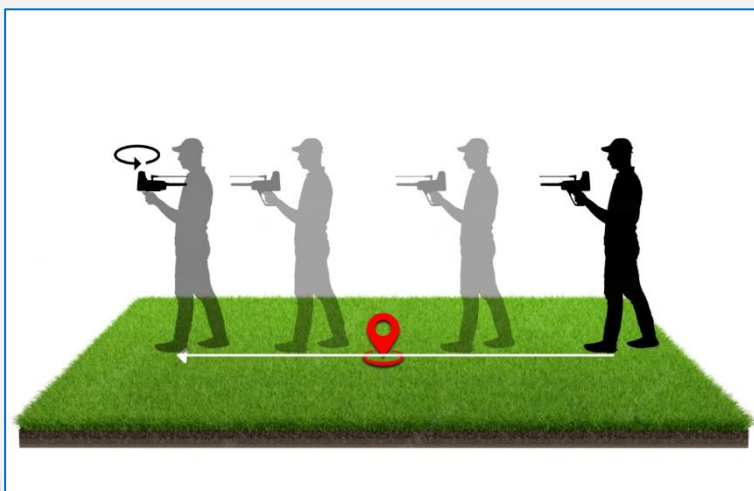




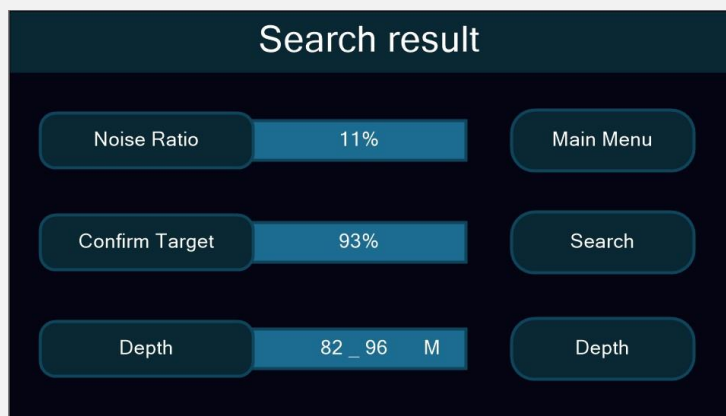
After you have confirmed the location of the target, click on the depth button to determine the target depth and then move away from the center of the target a distance of at least two meters.



Point the device towards the target while maintaining the balance of the device, press the start button, wait until you hear a beep from the device, then walk towards the target until the device rotates backwards with the appearance of an icon indicating the rotation of the device towards the back.



Turn in the opposite direction, press the start button, wait until you hear a beep emanating from the device, and the icon shifts from the rotation position to the forward position, then walk until the device rotates backwards, the device will analyze and show the final results automatically.



The following results and conditions will appear on the device screen when confirming the presence of a target:

Noise Ratio: It is the percentage of noise in the search area, which results from the proximity of (energy sources - phone networks - metals - mobile phones - electronic devices)

Confirm Target: the percentage of confirmation of the presence of the water in the search area.

Depth: The depth within which the water is likely to be located.

Example: The depth is between 82 cm to 96 cm.

Note: Water can be found at a depth less than the depth displayed in the search data final results.

The device is designed to detect and give the depth of the biggest water quantity.

Noise 11%

-Target confirmation 93%

Important Note: The ratio to analyze the results in the RIVER F SMART is as follows:

If the result of the noise is high and the target confirmation rate is low:

The device does not give depth, it is rather to retry the search again.

If it gives us depth and the noise percentage is greater than 30% It is preferable to try the search again.

if the target confirmation rate is less than 90%, try the search again.

- In the case that the depth was re-determined on the same target, and a difference in depth appeared between the first and second depth-determination process because of the different coordination of walking steps towards the target to determine the depth.

The device parts and accessories

	<p>A carrying and protective device case made of shock-resistant plastic</p>
	<p>The main unit of the device</p>
	<p>The device handle</p>
	<p>The device charger</p>
	<p>The car charger</p>
	<p>Super antenna</p>
	<p>Enhancer antennas</p>
	<p>Recipient antenna</p>

The technical specifications

RIVER F SMART Technical Specifications	
Audio Output	Dynamic speaker frequency range: 350~5500 Hz sound output: 84 ± 3dB
Liquid Crystal Display (LCD)	Touch screen full color 480 x 272 px
Length	Device: 218 mm
	The device with a super antenna of 388 mm
	The device with a golden antenna of 462 mm
Frequency	3.2 _ 18 KHz
Data processing speed	180 MHz
Operating Temperature Range	0 C° to 70 C°
Operating Humidity Range	Up to 95 % non-condensing
Storage Temperature Range	- 20C° to 70C°
Storage Humidity Range	Up to 98 % Relative Humidity
Operating Time (27 Wh Battery)	10 Hours
Waterproof Rating - Detector	Not waterproof (weatherproof only)
Li-ion Battery Technical Specifications	
Type	Li-ion Rechargeable Battery - internal Battery
Output Voltage	Li-ion 3.6 VDC
Capacity	Li-ion 27 Wh
Run Time	10 Hours
Battery Operating Temperature	0 C° to 50 C°
Battery Storage Temperature	- 5C° to 70C°
Li-ion Battery Charger Technical Specifications	
Operating Temperature	0 C° to 50 C°
Storage Temperature	- 30 C° to 80 C°
Input Voltage	90 → 250 VAC 50→60 Hz
USB Output Current	5 VDC / 2100 mA
Other Technical Specifications	
Total weight	4865 g
Device weight	592 g
Battery weight	130 g
Bag weight (empty)	3730 g
Bag dimensions	530 mm x 400 mm x 228 mm