FRESH RESULT
2 SYSTEMS PLUS

Underground Water Detector

User's Manual

This product enables you to detect the presence of underground water.

MADE IN GERMANY

GER DETECT
WWW.GERDETECT.DE

INDEX

Critical Warning

-Please be sure that all precautions taken against all risks.
-Do not use your device while it is raining or on wet ground
-You have to be sure that you are connecting the electric cables correctly
-Use the four probes and you have to Plant it under the ground more than 25 CM.
-Don't ever try to Plant the probes into the rocks.
-Turn on your device after you make sure that all parts are in place
-Make sure that the device battery is fully charged before you start searching
-If the battery starts to give a peep sound, close the device and recharge the battery
-It is recommended to read the user manual before start working on the device to understand everything and to avoid mistakes doing the search
-After the device start to make a sound and turn off automatically, put the battery on charge and do not try to start the device without charging the battery
-while charging the long-range system when the green light in the charger turn on, this will mean the battery is full.
-while charging the geophysical system when the green light in the device turn on, this will mean the battery is full.
-Be aware of high voltage resources, and do not use any charger other than the original charger that come with the device
-Main unit of the device is under warranty against all electronic breakdowns for two (2) years, any damages caused by user errors (laying open the main unit, hits, harms etc.) are not within this warranty
-Battery and antenna are also not within this warranty
-You should follow the instructions in this user manual strictly to minimize the faults and to use your device correctly

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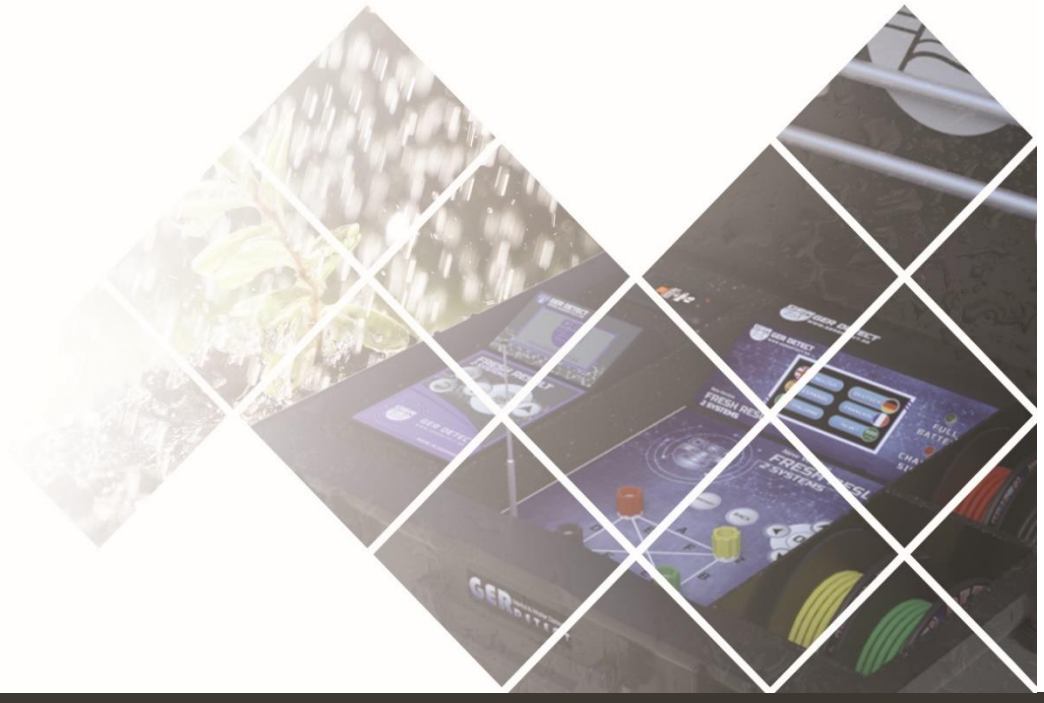
"Warning": When we send the device to the customer, we release the battery cables because the international shipping laws, so you have to connect the battery cable into the geophysical unite.

OVER VIEW

***Dear customer*,**

“Thank you for choosing FRESH RESULT 2 systems plus”

- ✓ This product enables you to detect the presence of underground water.
- ✓ FRESH RESULT 2 systems product is based on resistance principle.
- ✓ It measures the resistance between the four probes placed on surface of the region predicted to have water.
- ✓ It compares the measured values and analyze it and display the result on the screen
- ✓ The device can reach depth of 1200 meter under the ground
- ✓ The device front range is 2000-meter square
- ✓ The device displays the result on a color screen 4.3 inch
- ✓ The device works on 4 languages (Germany – English – French – Arabic).
- ✓ It’s passable to have your device with any language you like.
- ✓ All parts and accessories are in 1 shockproof handbag.
- ✓ The total weight of the device with all accessories is 10 kg.
- ✓ The guaranty credit is valid for 2 years.



1- LONG RANGE SYSTEMS

This system specializes to cover vast areas and locate the water up to depth of **1200** M

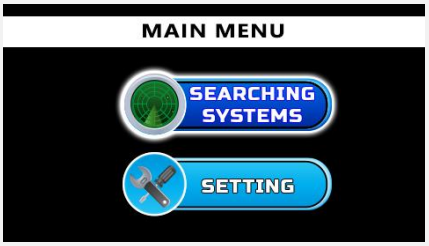
Below the surface of the ground and Front Range of **2,000** meters.

The transmission unit: the main unit of the device is placed on the ground in the middle of the area to be discovered, we connect the antenna of the signal Transmitter to the main unit and plant the probes on **"5"** meters from each other And connect them to the device, and we extend the length of the antenna on the m ain unite.

Then we turn on the device and select a language "**for example English**"

- When we choose a language the device will take you directly to the

"main menu"

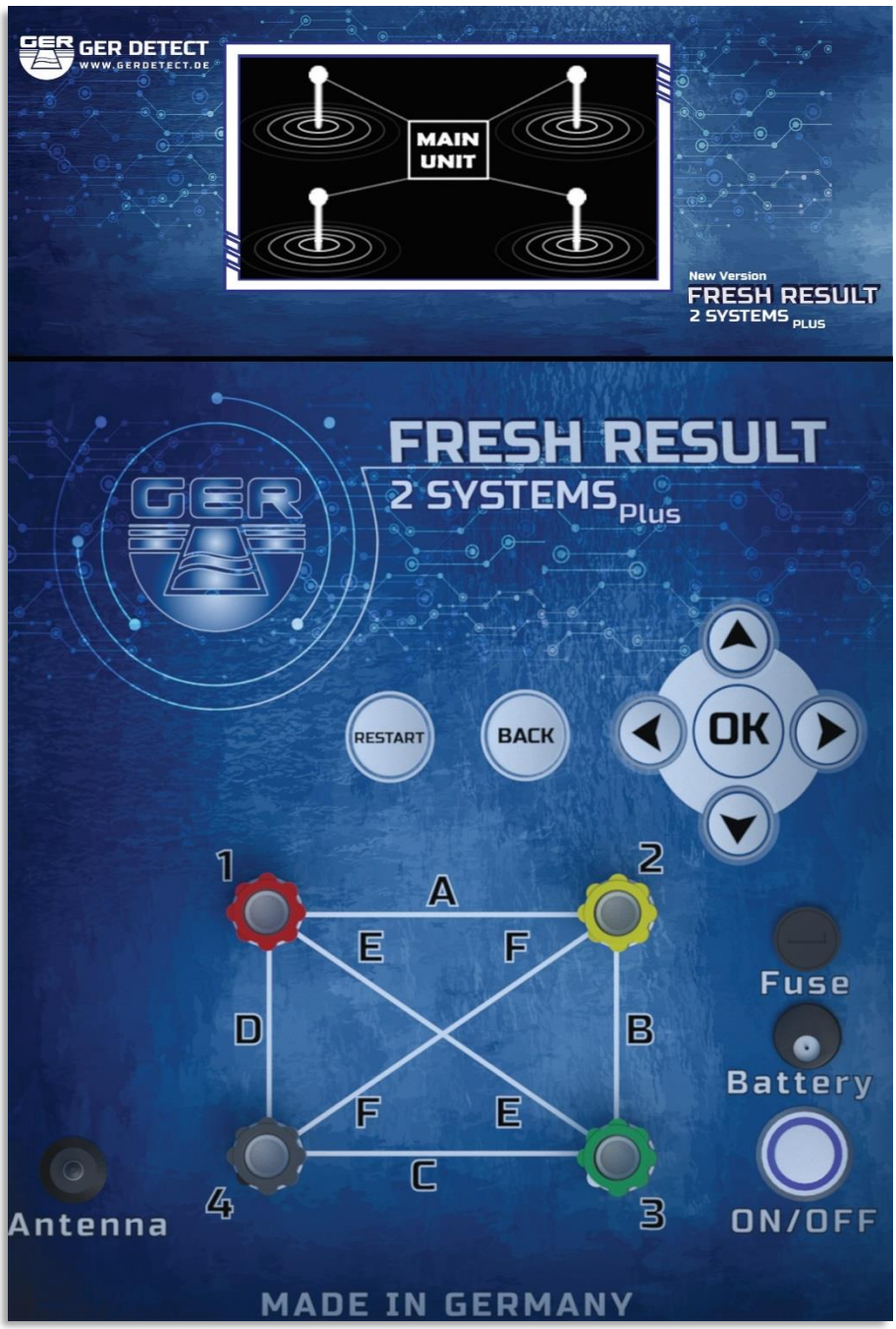


(main menu screen)

Click on **"searching systems"** which contain two search systems:

1. **The long range system**
2. **geophysical system**

(search systems screen)



We move between the search systems through navigation buttons and we select the "**long range system**" This screen will popup to inform you to "**turn on**" the Long range unit

(infomation screen)

After you turn on the long range unite you will see on the screen that the device start to send signals to the ground and then you can start to search for water

Note: extend the length of the antenna in the main unite to reach maximum range of the device and to caver more area

- Then we move on to the long range unit which works on Digital screen through which you can determine the front range to be reached in the search
By using this system

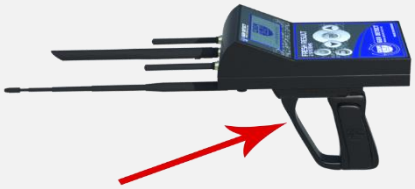
(main unit – long range system)

Description of the main unit keys – LONG RANG UNIT

Keys Description	
1	Navigation button
2	Selection button
3	Power button
4	Back button

Note

Before opening the device, the user should connect all parts of the system and connect the Handel to be able to open the device power



We turn the device through the power switch **"ON – OFF"**

first you will open the button on the side of the device

and then you will use the **ON / OFF** key

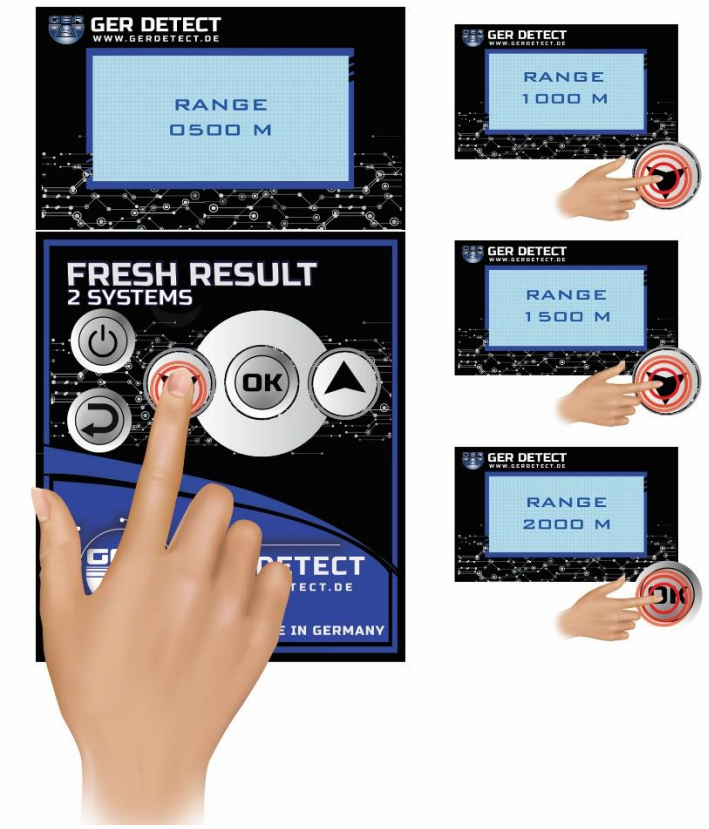
o

We move between the languages through **"navigation buttons"**

And we conform our selection by pressing on **OK** button

After selecting the Language, we choose the type of water that we will search for it

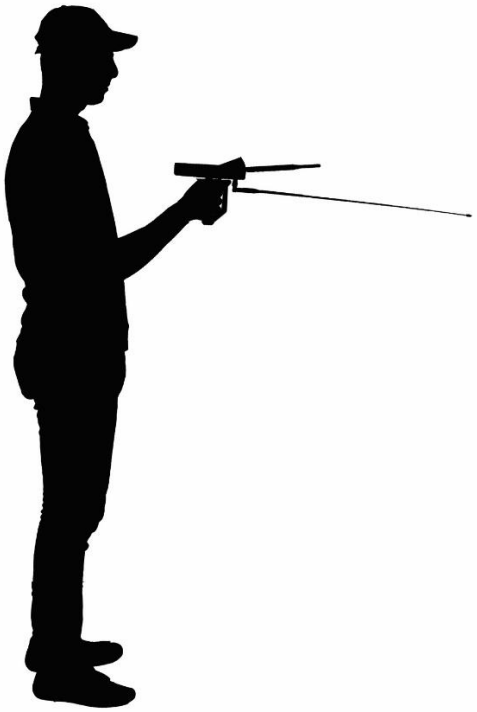
1- **Fresh Water**
2- **Natural Water**



Then we choose the Front Range of the search.
We navigate between front range options using the **"navigation buttons"** you can choose as follow:

- ✓ **500 meters:** *(from 0 to 0500 m)*
- ✓ **1000 meters** *(from 0 to 1000 m)*
- ✓ **1500 meters** *(from 0 to 1500 m)*
- ✓ **2000 meters** *(from 0 to 2000 m)*

Press **"OK BUTTON"** to select front range.



- After selecting, the front-range the device will Begin the process of search.
- Carry the device as in the photo.

- The user should position them self from the north to the south which is the best method to detect underground water.
- As When the device detects any presence of water within the selected range on the device the device will Track the signal and guide you directly to the water location point Under the ground thus, this system will be done.
- After detecting the target, conform the target from for direction

  - ***"North to South"***
  - ***"South to North"***
  - ***"East to West"***
  - ***"West to East"***

- And to now the depth and salinity, type of water and the density of water You will use the geophysical system.

2- Geophysical system

This system allows you to discover more details about the discovered water after using the long-range system, a survey and analysis of the underground water and the way the system works in the following way

Description the main unit keys – Geophysical system

Keys Description	
1	4.3 inch Screen for result display
2	BACK button to return back to return the previous page
3	Ok button to conform the options selected
4	Navigation buttons between the options (up – down – right – left)
5	Fuse to protect the electronic circuit
6	12 v. Battery entrance
7	Power button (ON/OFF) to turn on and turn off the device .
8	The transmission antenna for the long range system
9	4 entrance for the cable that contact the device with the probes
10	RESTART button to restart the system

Start working with the geophysical system

First steps:

- ✓ plant the 4 probes, and connect them with the 4 cables
- ✓ plant the probes in the soil until **85%** at lest of the length of the probes
- ✓ To get an accurate result the distance between the probes should be **20** meters at the start of the search.
- ✓ At the beginning of the search connect the cable between the probes and the main unit of the device and make sure they are plugged correctly as shown in the following picture

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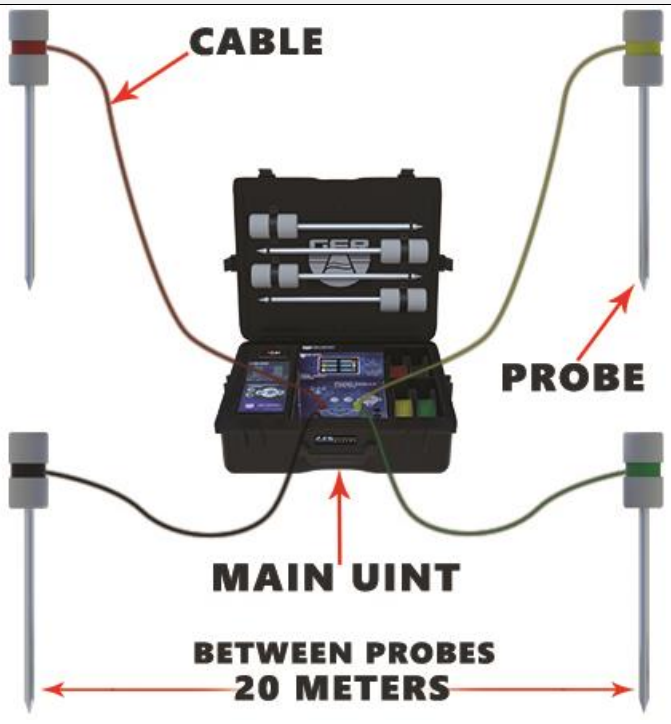
"NOTE" the distance between the **4** probes should be the seam

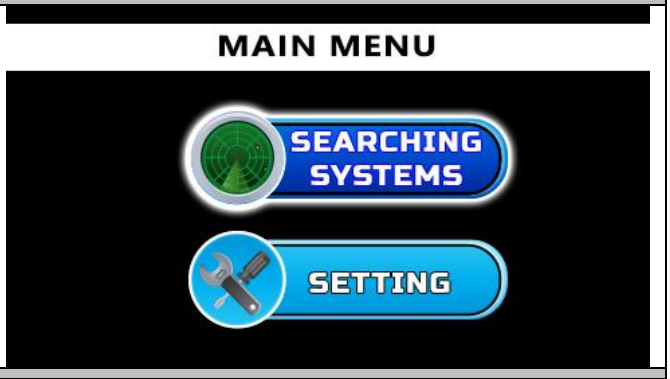


Second step:

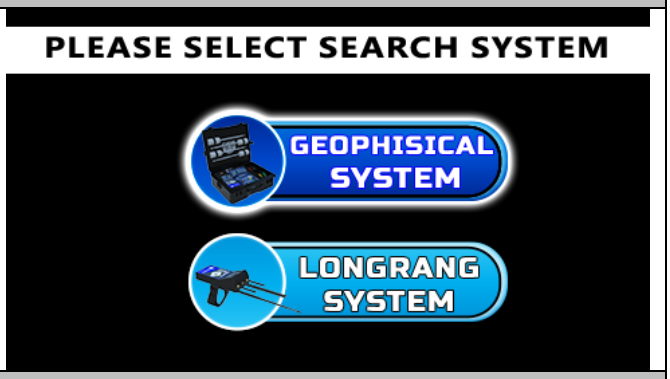
- turn on the device and wait for a period of not more than 5 seconds until the device power up and display the language options of the device

- The device works on 4 languages, (English. Germany. Arabic. French) you can choose the language search by using the navigation button up and down keys

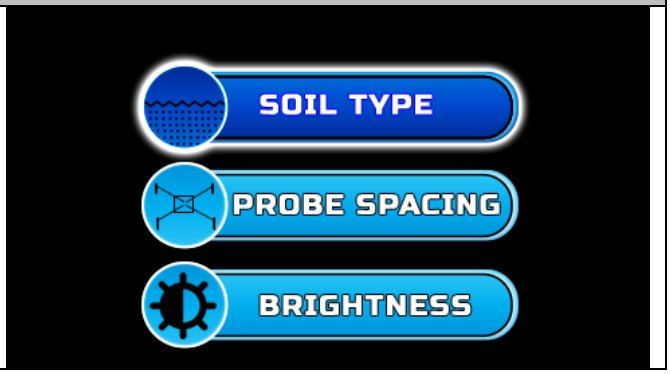
- After selecting, the language you want to work on the device will take you directly to the main menu, which contains:
  1. **Search systems**
  2. **Setting**

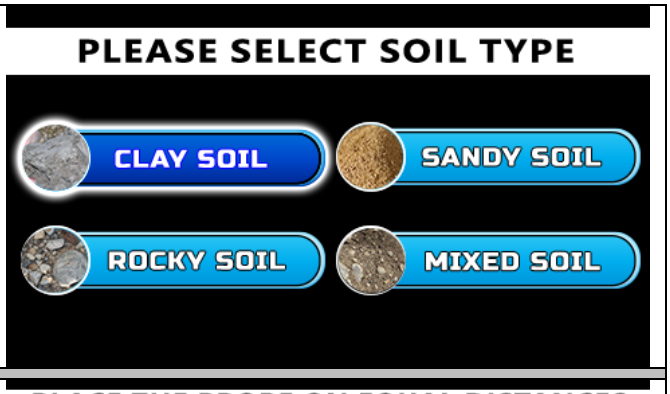
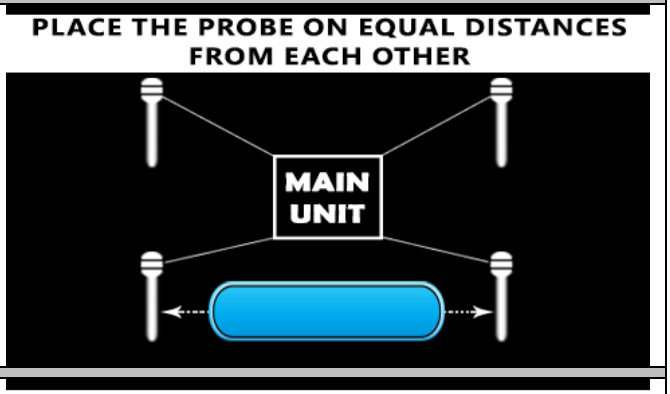
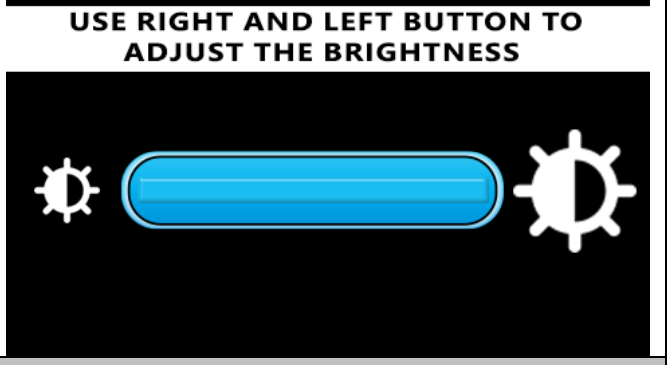
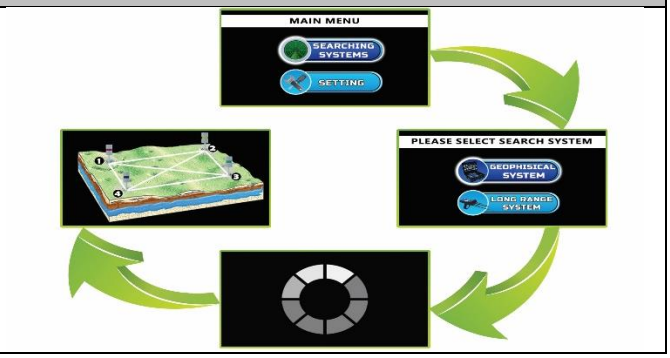


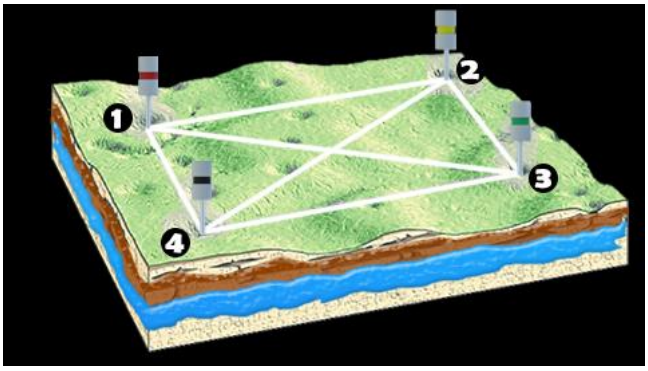
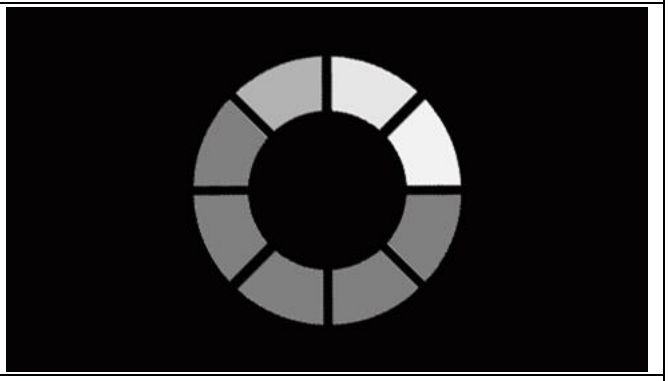
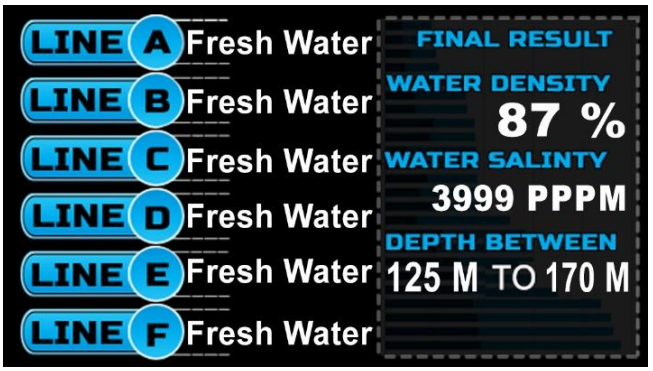
- **"Search systems"** allowed you to select the system that you want to use it for searching, the device has two search systems.
  1. **Geophysical system**
  2. **Long range system**



- **"Setting"** allowed you to adjust device settings,
  the device has three options:
  1. **Soil type**
  2. **Probe spacing**
  3. **Brightness**



➢ **“Soil type”** to choose the type of soil in which to search	
➢ **“Probe spacing”** to enter the distance between the probes according to your measurements on the ground by using a meter	
➢ **“Brightness”** to adjust the lighting of the screen	
➢ After adjusting the settings, we return back to the previous menu, by pressing the **OK** key in order to confirm the selected options that we choose them before	
➢ Now after you get back to the main menu enter the search systems than select the geophysical system and wait for a few seconds and then the device will start the search.	

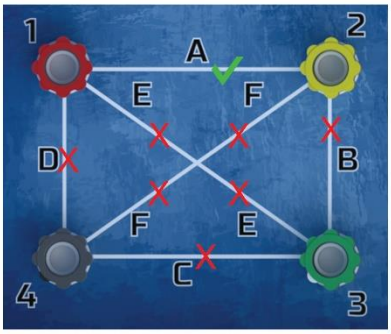
➢ This scanning process will takes a maximum of 3 minutes, Since the device is searching among the 4 probes in 6 different way to collect all information required to determine the depth and the water type and all the necessary information	
➢ After the device finish the search it will take a few seconds to possess the gathered information and display it on the screen as we will see in the end of search.	
➢ When the search process end the device will display the results as you see in the following photo: ➢ In the event of water under all probes you will see report on the device will appear from which you can learn the where about of water And the type of water.	

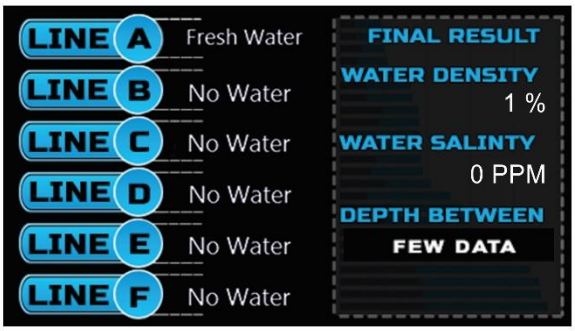
"Note"
When the water percentage is less than **50%** that means small amount of water, and when the percentage is between **50-70%** is a good amount of water, and when the percentage is between **80-100%** that means the water amount be huge

NO RESUTL

- Dear customer,
  When a ***"No result"*** message appears on the final search screen results
  Please follow the solution of this case carefully.

First case





THIS MESSAGE WILL APPEAR ON THE SCREEN

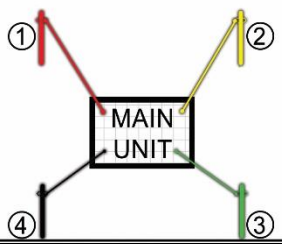
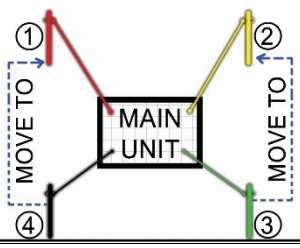
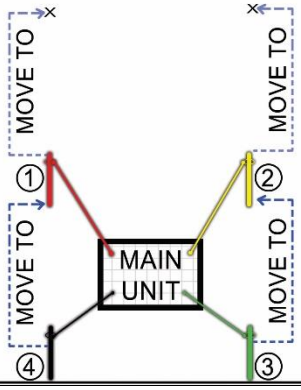
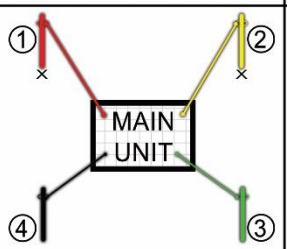
The solution of this case

The image above showing us that the device found water only under the **line "A"**

1- Move the probe **"3"** From its current location To the location of the probe **"2"**
2- Move the probe **"4"** From its current location To the location of the probe **"1"**

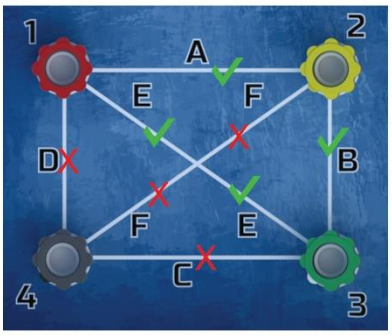
3- Redistribute probes **"1", "2"** Depending on the new location of the probes **"3","4"**

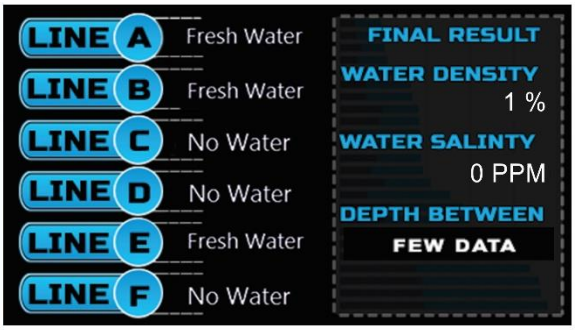
4- Re-search again

STEP 1	STEP 2	STEP 3	STEP 4
			

NO RESUTL

Second case

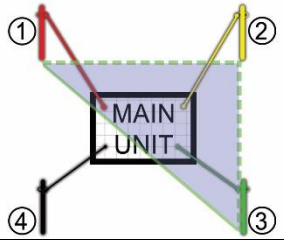
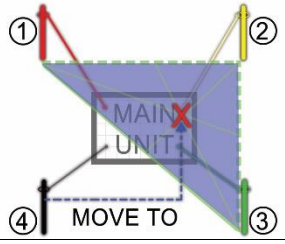
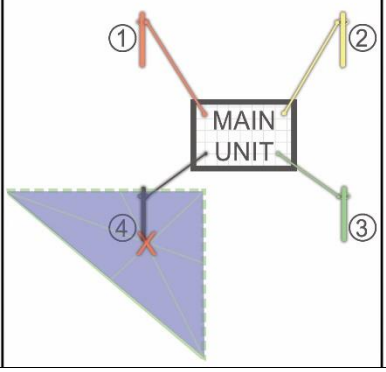
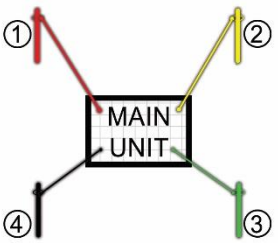




THIS MESSAGE WILL APPEAR ON THE SCREEN

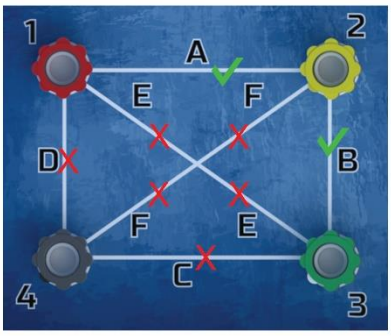
The solution of this case

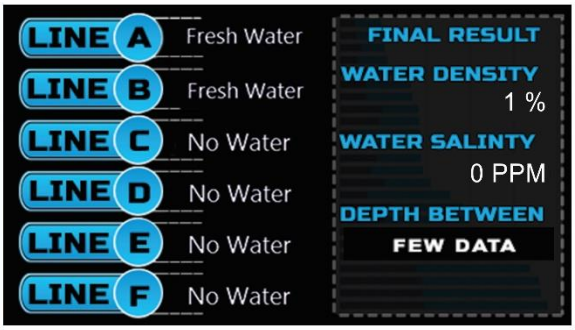
The image above showing us that the device found water only under the **line "A", line "B" and line "E"**	1-Determine the center of triangle which consist of lines **"A","B"** and **"E"** 2-Move the probe **"4"** From its current location to the triangle's center.	3-Redistribute probes **"1" , "2" and "3"** Depending on the new location of the probes **"4"**	4-Re-search again to get complete results

STEP 1	STEP 2	STEP 3	STEP 4
			

NO RESUTL

Third case





THIS MESSAGE WILL APPEAR ON THE SCREEN

The solution of this case

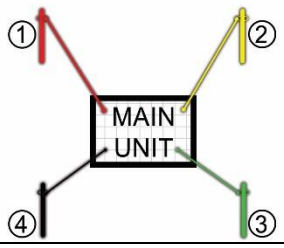
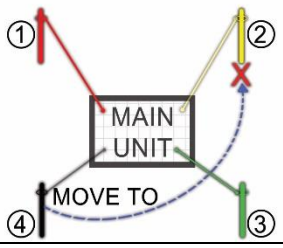
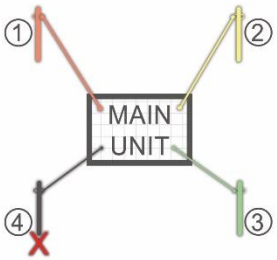
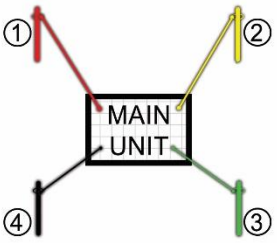
The image above showing us that the device found water only under the **line "A" and line "B"**

1-you can Follow the steps described in the "**First case**"
2-Or you can Follow the steps described in the "**Second case**"

1- Or move the probe **"4"** From its current location
To the location of the probe **"2"**

2- Redistribute probes **"1", "2" and "3"** Depending on the new location of the probes **"4"**

3- Re-search again

STEP 1	STEP 2	STEP 3	STEP 4
			

"Important information and notes"

- ✓ If the device displays the results **"no water"** in the search this will means two different things
  - 1- Could be the cable not connect correctly between the main unite and the probs.
  - 2- could be the device had detected very salty water.

- ✓ The difference that appears in the depth of the water (such as **80 > > 154**) Represents the surface and the bottom of the discovered water.

- ✓ If you will use a different battery charger, preferably you should use **12 to 15** v no more and no less, and the value of Ampere is **(2)** and if you will use a charger with higher or lower Ampere it will make your battery last lower than normal.

- ✓ The distance between the 4 probes should be at least 20 meters to get more accurate result.

- ✓ If the distance between the 4 probes is **20** m each you have to adjust the distance in the sitting.

- ✓ If the device gives you on the screen (few data) you should do the search again in the seam location.

- ✓ If the density of the water lower than 50 % that means the water exist in small quantity in this area and it's not recommended to drill according to this result.

- ✓ If the density of the water is from 50 % to 60 % that means the water exist in medium quantity

- ✓ If the density of the water is from 70 % to 80 % that means the water exist in big quantity

- ✓ If the density of the water is from 80% to 100% that means the water exist in very big quantity

- ✓ When the device discovers salty water the result will be on the primary result of the search it will show (salty water)

- ✓ When the device discovers very salty water the result will be on the primary result of the search it will show (very salty water) and this water is Non-drinkable and Not usable

"Important information and notes"

- ✓ the Salinity of the water is to Measure the percentage of the Salts in the water
- ✓ When you see the depth in the results, for example: (**110-130** meters) and you research again and give you, for example, (**120-160** meters) or (**40-170** meters) for example, that is mean there is more than 1 water well under the ground (there are several Water wells with different depths at the same place)
- ✓ if you made several search in the same place and the depth was similar in all the times that is mean there is an underground water leak and not stream water
- ✓ If you want to confirm the target once again in the same place, you must take out the probes and change the place of the probe to other place at least one meter far a way to remove accumulation of charge as a result of the passage of the stream
- ✓ You should avoid using the machine during rain and must wait for **15 days** at least after the rain stopped until the soil dry out then you can use the device

NOTE:

- ✓ **Suppose the existence of drilled water wells in your area and working well and starting at depths of 10 meters or 50, 100 or 120, 140, meters etc. ..... this is not conclusive evidence that the water existence only on these depths. It could be there is a water at more depths.**

That means the final result of depth on the device screen is the real depth of huge amount of water.

Example: If it is proved you through the search process device that the depth of this places from 200 to 240 meters this indicates that the existence of water is truly at these depths.

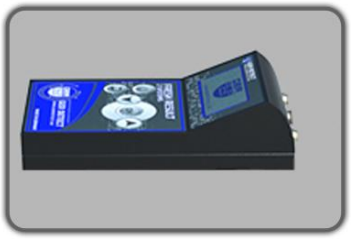
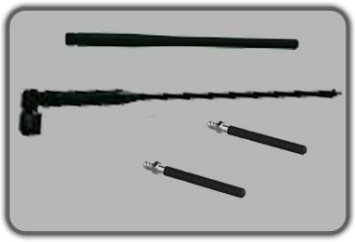
As for the drilled wells and works depths less than 200 meters with very short life, so must re-restored and drilling to the depth that the device showed.

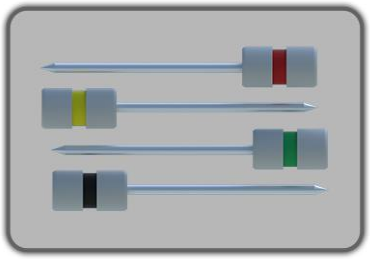
Warning

If you want the device work well without errors, you have to follow next steps

When using the device please do not wear any watches	
When using the device please do not wear any jewelry	
When using the device please get away from metals, lighter and mobile phone and video games.	
Please take off your belt in the search presses	
The shoes should not contain any metal	
Stay away from cars in your search	
Stay away from electrical ground power lines or any surfacing electric	

Parts and accessories

	Geophysical system (main unit)
	Long rang system (main unit)
	Long rang system (antennas)
	Long rang system (handle)
	Charger to be used for: 1- Long range system 2- Geophysical system
	4 Cables for Geophysical system

	**4 Probes x (45 cm)**
	**External rechargeable battery**

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