

BR GOLD STEP PRO MAX

User Manual

Safety information:

The components used in this device are subject to damage. Therefore, please adhere to the following information to maintain your safety and the device safety.

Before you start using the device, please read the manual carefully several times and understand it well, because the wrong use of the device may lead to damage or harm to the device.

You must pay attention and adhere to all information and warnings in the user manual before operating the device.

When assembling the device, make sure that all parts are connected correctly. And in case you need any assistance during the installation process, please contact the technical support team and ask for assistance.

After you have finished using the device, please return the device to its case to protect it from any possible damage.

The device must be stored in an environment free from negative electrical charges, away from moisture, and at a temperature below 50°C.

Turn off the device completely before saving it.

Make sure that the electrical socket provides the same voltage

Safety information:

indicated on the charger before plugging the charger into the socket.

If any of the following things happen, please contact the technical support team and request assistance:

- 1- A liquid substance penetrated the device
 - 2- The device was exposed to high humidity
 - 3- The device does not work well or you cannot operate it according to the user manual
 - 4- In the event that the device is dropped and damaged
 - 5- If there is a clear sign of damage or harm to the device
- Please keep the user manual for future reference.

Introduction

Thank you for your trust and purchase of BR devices. BR devices are known worldwide for their efficiency in the field of metal detection and locating gold and treasures with high accuracy, now in your hands. This device will provide you with the most accurate and best results during the search process and you will be able to track the location of your target easily and quickly, because BR devices are equipped with the latest and best systems in this field.

For best results, please follow the information in this guide accurately and correctly to reach your target.

Technical specifications

The BR Gold Step Pro Max is one of the newly developed devices by BR Systems, a well-known company in the field of metal detectors.

This version of the device outperforms its predecessors by providing greater capabilities and high-precision results

Screen : colorful screen 4.3 inch (480*272 pxl)

Battery : Li-ion Battery 7800 mAh/3.7 V – 20 hours.

Charger : USB – PD

Languages : English – French – Arabic – Spanish – Turkish – German

Casing : Safety suitcase designed especially for BR Gold Step Pro Max components and parts.

Warranty : Three years real warranty.

Technical specifications

fields for buried metals and voids.

Depth: up to 16 meters.

4- Live scan system: BR Systems company is characterized by this exclusive system that allows the user to search for the target with ease and during walking in any direction by displaying the metal, the void and the soil in three different colors that enable the user to know the location of the target by simply crossing over it

Depth: up to 16 meters

5- 3D Ground imaging system: This system is one of the most important systems for prospectors because it is the only system in the world that can accurately determine the shape of the target.

The BR Systems company has developed this system to give the user a color image of the target in three dimensions, which provides him with clarity and high accuracy.

Depth: up to 16 meters

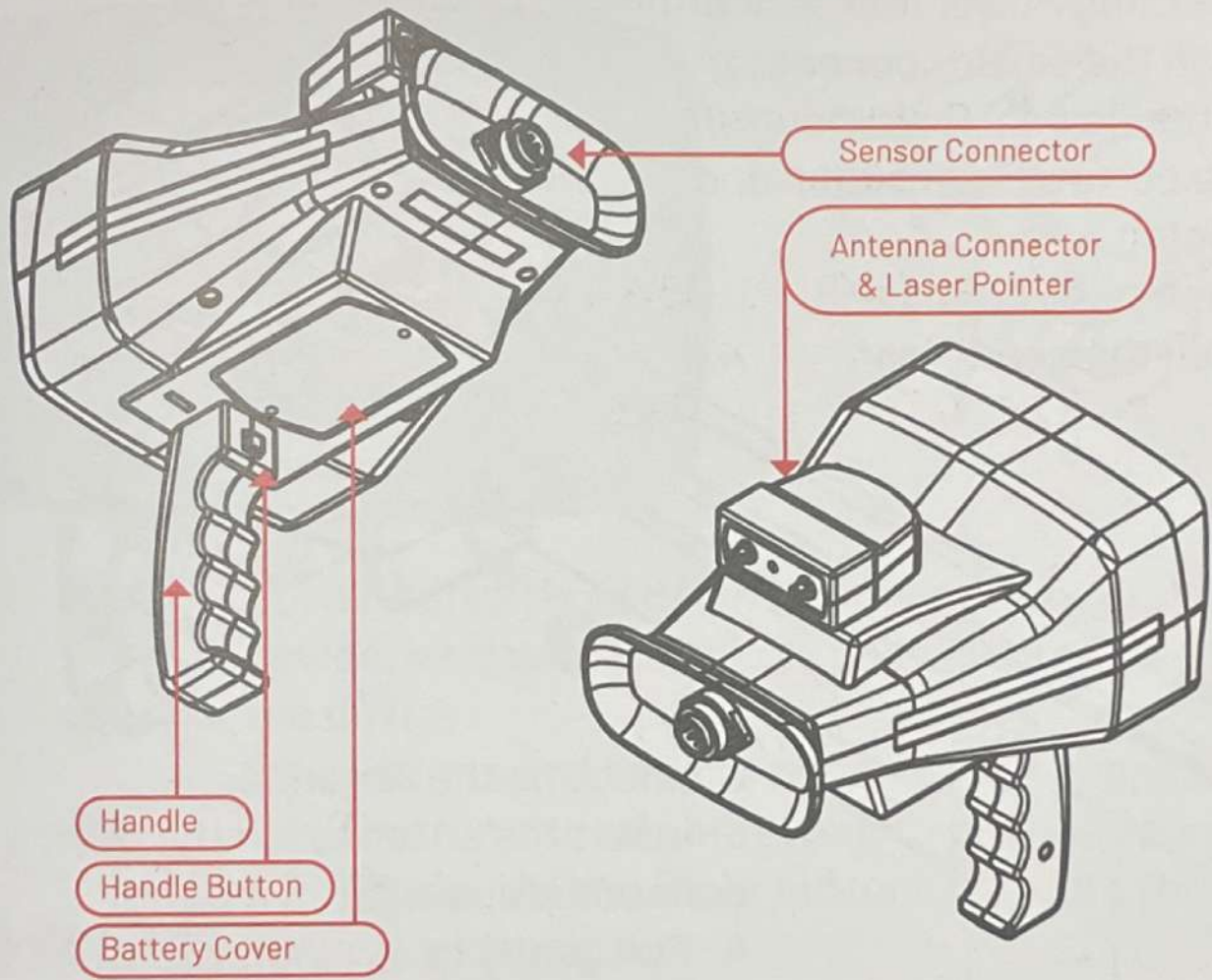
Package Contents and Components

The BR Gold Step Pro Max complete package contains:

- 1- Main unit
- 2- PowerMax Magnetic Sensor
- 3- Highly Polarized Sensor
- 4- Antenna x2
- 5- USB PD charger (TYPE C - 18W-3A)
- 6- Shock-resistant plastic bag
- 7- User manual and Warranty Card
- 8- Headphones



Device overview

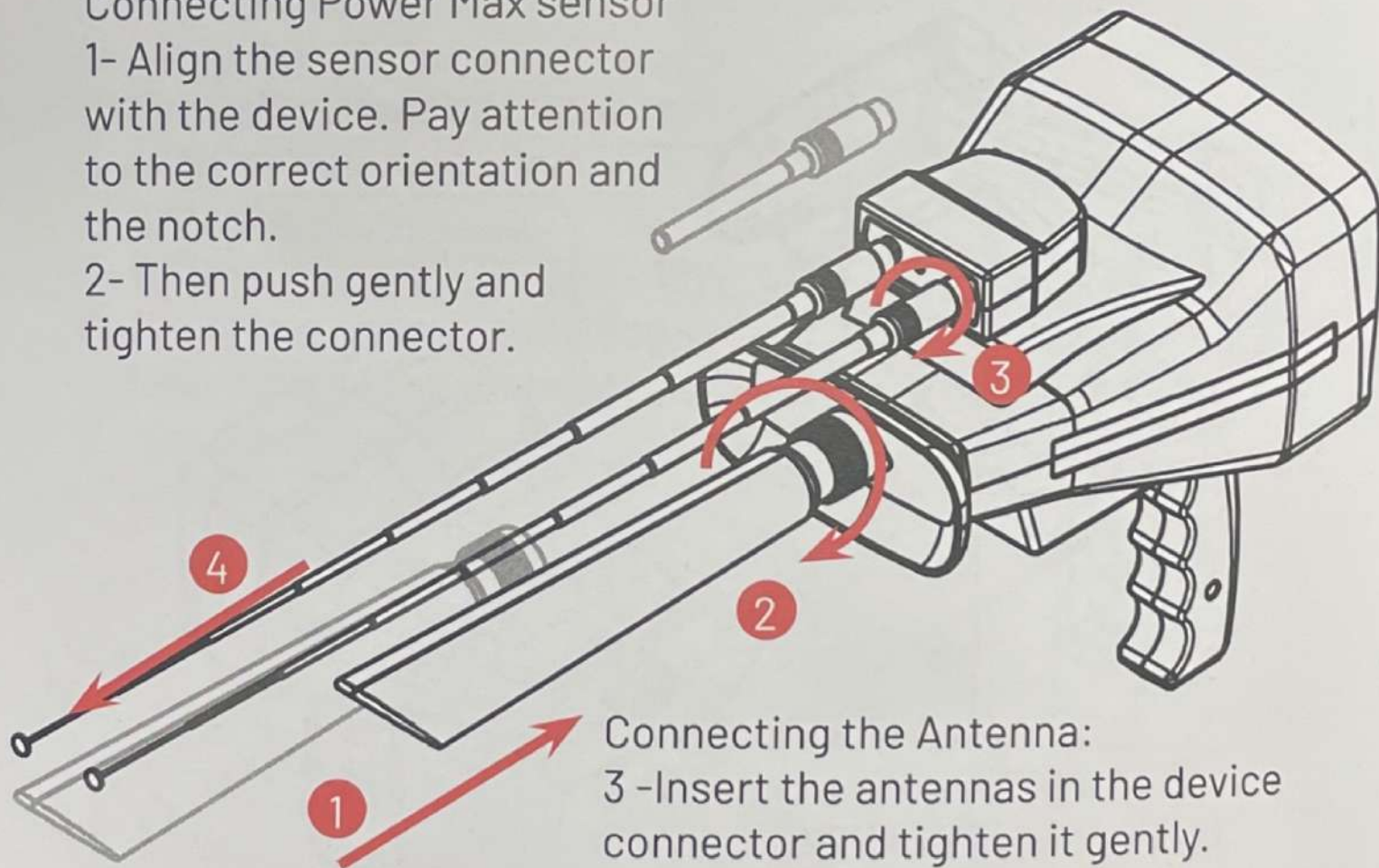


Device Assembly

Connecting Power Max sensor

1- Align the sensor connector with the device. Pay attention to the correct orientation and the notch.

2- Then push gently and tighten the connector.



Connecting the Antenna:

3- Insert the antennas in the device connector and tighten it gently.

4- Pull gently to extend the antennas fully. Make sure that the antennas are straight and parallel.

Keys & Buttons



Power Button hold down to start or turn off the device, hold down for 15 seconds to force shut off the device.



OK confirms and selects options in the menus.



Back button cancels or retreat to previous page.



Left, Down, Up and Right buttons navigate through options and menus.

Handle Button activates Laser pointer and control search features.

User Interface



1- Current search system header

2- Sound Icon, it shows if the device is muted or unmuted.

3- Battery indicator, it shows if the battery health and charge status.

4- Time in 24 hours format.

5- Main Menu icons.

Select the search Icon or Setting and press OK to start using the device.

Settings

Press UP in the search menu and then OK to go to the device settings where you can browse the parameters and current setting values controlling the device.



Navigate through the menu using the arrow keys and press OK to enter the selected settings interface.



Settings

Display

Increase or decrease screen brightness and choose the power mode.

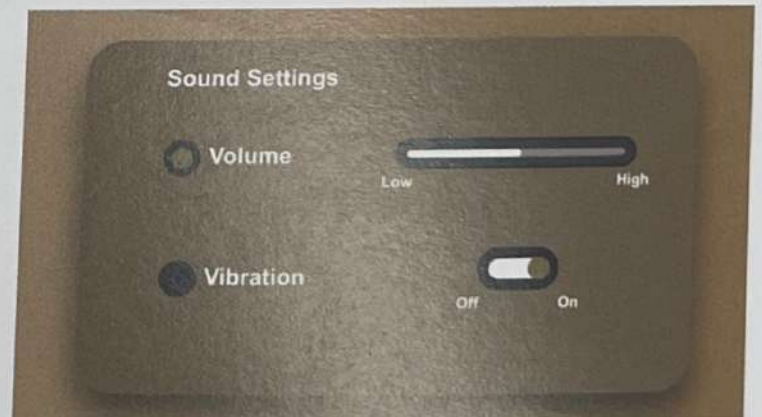
Brightness: There are two options, either light or dark mode

Idle mode: The option can be selected between 15, 30, 45, 60 seconds to save energy and provide the ability to work for a longer time on the device

Sound

You can move the left and right buttons to increase or decrease the volume and

Turn on and off vibrate mode.



Settings

Time and date

The time and date can be easily adjusted via the directional buttons to increase and decrease values.



Language

The device contains 6 languages: Arabic - English - French - German - Spanish - Turkish



Settings

Device Info

Shows manufacturer, the device model and Software version



Reset device

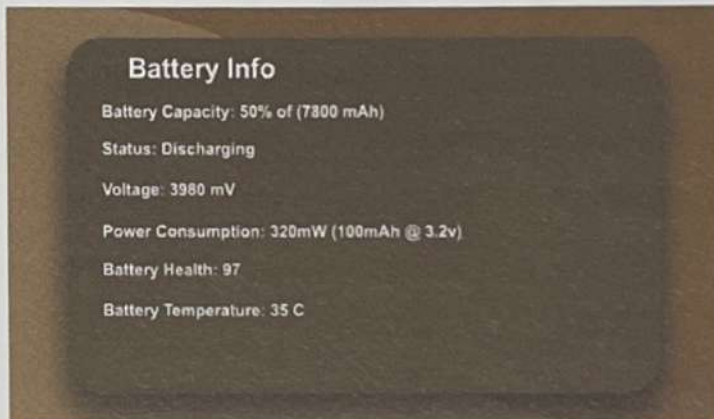
Enables you reset the device.



Settings

Battery information

It is complete information about the battery, such as the battery capacity, the amount of power consumption and the temperature of the battery to ensure the safety of the device and avoid any problem.



Long-range system



The system used in the search process in this device is the advanced and effective long-range search system.

- 1- Current search system header
- 2- Sound Icon, it shows if the device is muted or unmuted.
- 3- Battery indicator, it shows if the battery health and charge status.
- 4- Time in 24 hours format.
- 5- Search parameters.

Long-range system

The user can choose the target from the list of available targets:



Gold



Gold Nugget



Silver



Bronze



Copper



Cavity



Iron



Aluminum



Lead



Tin



Water



Mercury



Diamond



Emerald



Ruby



Precious Metals



Custom

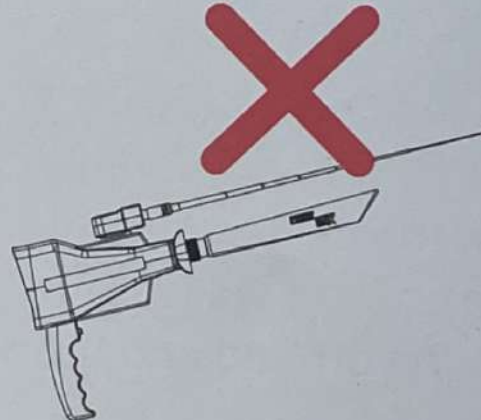
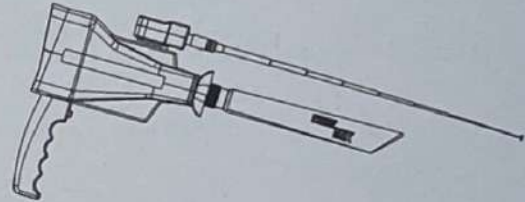
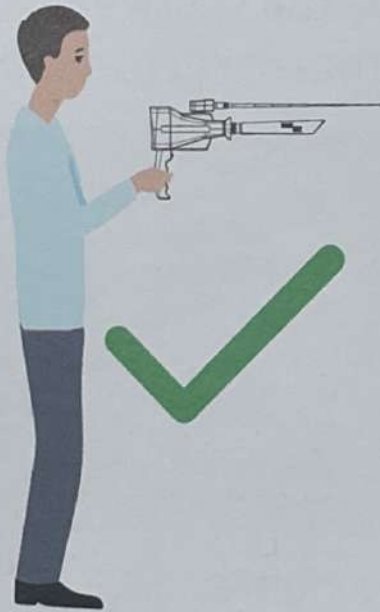
Long-range system

If Custom target is chosen, press OK and adjust the frequency to match the desired value using the arrow keys, then press OK again to confirm. The maximum frequency for the Custom target is 100 KHz. Then choose the search distance up to the maximum distance of the device (2000m) Then choose the search depth up to the maximum depth of the device (50m). The user can turn on or off the laser pointer functionality. Press the handle button while searching to activate the laser.



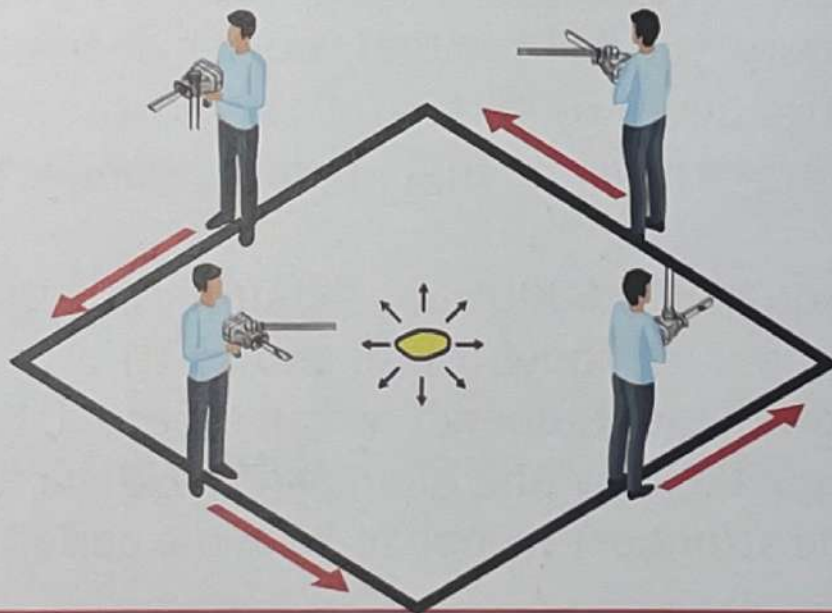
Long-range system

Press the start button, and then the device starts sending signals through the long-range signal transmitter, as these signals stimulate the static electric field of the specified target within the search field, if any, then the moving antenna begins to automatically attract towards those signals emitted by the target after repeating the search process from several directions. The antenna points to the same target location each time the user has to use the box method to locate the target precisely.



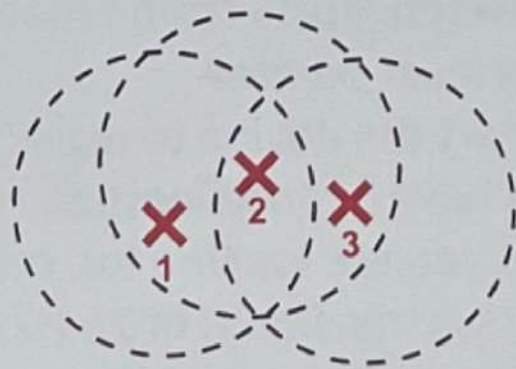
Enclosing on target using the "box" method

This method helps to more accurately determine the position of the buried target. The researcher draws a square around the previously found target at a distance of 150 cm from the center. When the researcher's feet are in the same direction as the target, the external antenna moves towards the target. Make sure at each of the four corners that the antenna is pointing in the same direction, and then you can know that the target you are looking for is the location of the signal that was placed and that the search process has been successfully completed.



Determining target offset while drilling

In some problem areas, there may be errors in the target points that were identified with the indicator. For example, suppose we find an object at a depth of 3 meters when digging, after every half a meter the location of the target should be checked in a box manner, if there is an offset in the target, the drilling should be directed in that direction. This will take less time to dig and be more accurate. In similar areas, double-checking the target site with a normal coil detector will save more unnecessary drilling.



Long Range System Search Method

Make sure that the PowerMax 25 sensor and the antennas of the long-range search system are connected, then scroll through the arrows and choose the long-range search system from the main menu

First, select search options from the system control panel
-Press the arrow buttons to move between the options and choose the type of target you want to search for from the list of targets

In the case of selecting the target "Custom", select the desired target frequency manually.

Determine the front search distance, which starts from 100 meters

Determine the depth of the search, which starts from 1 meter
Then choose to enable or disable the laser pointer

And then press the Start button to start the device to work according to the search options that have been selected

In the event that you reach the target you are looking for, manually increase or decrease the frequency by a maximum of 25 HZ to see if the target that was found is the same as the one you want

Long Range System Search Method

to search for in the search options. See (page 23) for a detailed explanation of frequency tuning.

Upon reaching the desired goal, confirm the existence of the goal using the box method, see (page 24) for a detailed explanation of the box method.

Ionic search system

What distinguishes this system is that it is not affected by electromagnetic signals whatsoever, as it is affected only by ionic fields formed by gold and treasures buried for long years (hundreds or thousands of years), so using this system is very easy.

Note:

The PowerMax 25 Sensor should be connected prior starting the search



1- Sensitivity Bar: Adjust the sensor gain sense of the fields select a high value for finer targets or low value for a general search and prospecting.

2- Sense Gauge/meter: It indicates the sense level with a gauge and an overlay combined with audio feedback of the sense and target search.

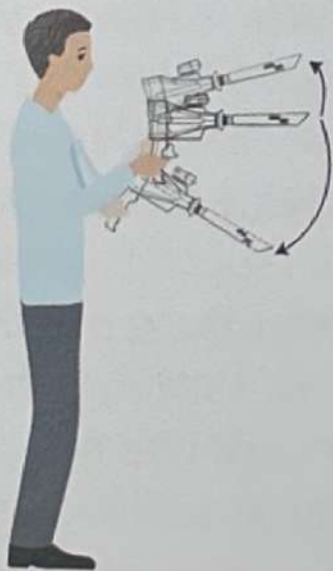
3- Balance Bar: Adjust the value to zero out noise and random false positives.

Ionic search system

Press the handle button for the device to perform an automatic calibration process and identify the search area.

You can also manually control the device balance to eliminate environmental factors that may affect the scan system readings. You can also adjust the sensitivity and gain as well to match the device to the desired setting.

Once the device is calibrated and balanced then the ionic search system is ready to work, move the device left, right, up and down slightly over the area to be scanned. The user can move on foot or even search from inside a car. The ionic system is not affected



by the signals emitted by the car and when approaching a target the pointer in the center of the screen begins to move and increase, and when you get closer to the target, it starts to emit a sound that increases closer to the target with BR Gold Step Pro Max

Ion System Search Method

Make sure that the PowerMax 25 is connected, then scroll through the arrows and choose the Ion system from the main menu to start the system directly.

Press the handle button for the device to perform the automatic calibration process and identify the search area.

You can manually control the device balancing to eliminate environmental factors that may affect the scanning system readings.

You can also adjust the sensitivity and gain to match the device to the desired setting.

Through the previous steps, the ionic search system is ready to work, move the device left, right, up and down slightly over the area to be scanned.

Magneto Scan system

Magneto Scan system: This system is characterized by its superior ability to find electromagnetic fields formed by metals and voids very easily, and this system also determines the center of the target with very high accuracy, what distinguishes this system is that you first: you do not need a long stick and discs of multiple sizes as in other electromagnetic systems. Second: the possibility of horizontal and vertical search. Third: The calibration of the device is very simple and also provides you with the automatic calibration feature. Once you start the Magneto Scan system, the device will be ready to search. It has been automatically calibrated to suit all prospectors and everywhere while maintaining the feature of raising and lowering the sensitivity and making the correct balancing. Once the device has reached the sleep state, you can start searching. The direction of the search must be fixed so that if you calibrate the device from north to south, you must continue in this direction, and when the sensor passes over a target (metal or void) the device will emit a sound and the indicator on the screen will rise and the type of target will be determined.

Magneto Scan system

The user interface for the Magneto Scan Search System consists of the following:

Note:
The PowerMax 55
Sensor should be
connected prior
starting the search



1- Parameters bars:

Balance: Sets the reference point for the sensor. Increasing or decreasing the zero point offsets the sense range into Positive or Negative value and skews the indicator towards one type of targets over the other.

Gain: Sets overall range of sense for the system

Sensitivity: Sets the steps and sensing grads for the sensor.

2- Sense indicator: shows the current reading of the PowerMax sensor. Usually metals tend to be on the max/positive side and Cavities/voids tend to be on the negative side.

3- History Graph: shows a history of the past readings to help the user enclose on a target and/or detect its shape.

Magneto Scan system

Make sure that the PowerMax 55 sensor is connected.

Press the handle button so that the device will perform the automatic calibration process and identify the search area.

Perform the calibration process over the search area while maintaining a distance of 10-15 cm between the device sensor and the ground beneath

You can manually control the device balance to eliminate environmental factors that may affect the scan system readings. You can also adjust the sensitivity and gain to match the device to the desired setting.

Through the previous steps, the Magneto Scan System is ready to work, move the device right and left slightly over the area to be scanned.

You may also use the device horizontally forward ahead towards walls to check whether wall contain any electrical utilities, wire cables or caves behind.

Magneto Scan Search Method

Make sure that the PowerMax 55 sensor is connected, then scroll through the arrows and choose the magneto Scan system from the main menu, so the system will start working directly.

Press the handle button so that the device will perform the automatic calibration process and identify the search area. Perform the calibration process over the search area while maintaining a distance of 10-15 cm between the device sensor and the ground beneath.

You can manually control the device balancing to eliminate environmental factors that may affect the scanning system readings.

You can also adjust the sensitivity and gain to match the device to the desired setting.

Through the previous steps, the Magneto Scan System is ready to work, move the device right and left slightly over the area to be scanned.

You may also use the device horizontally forward ahead towards walls to check whether wall contain any electrical utilities, wire cables or caves behind.

Live Scan system

Search method: The Live scan system is one of the most important innovative systems by BR Detectors because it gives the user the ability to detect metals and voids with great ease and without wasting time in calibration, regardless of the conditions and environment of the target place, where this system detects electromagnetic fields formed around metals And voids, and it shows the result directly on the display screen in three different colors, and each color symbolizes a specific target as follows:

Green: the nature of the soil

Red: metal

Blue: caves & voids

Thus, the user can quickly and easily know the location of the metal or the void,

Although the system starts with an ideal calibration for most conditions and situations, our company has added the ability to change the sensitivity and signal strength to suit all conditions, whatever they may be.

Live Scan Search Method

Make sure that the PowerMax 55 sensor is connected, and then choose the Live Scan System from the main menu to start the system directly.

- Scroll down with the arrows and press the calibration icon and then press the handle button for the device to identify the search area, perform the calibration process over the search area while maintaining a distance of 10-15 cm between the device sensor and the ground beneath

You can manually control the device balancing to eliminate environmental factors that may affect the scanning system readings.

You can also adjust the sensitivity and gain to match the device to the desired setting.

Through the previous steps, the Live Scan System is ready to work, move the device over the area to be scanned to start the scanning process.

Results will appear directly on the device screen in the shape

Live Scan Search Method

of scrolling picture, readings of underground objects will be represented on device screen as colors;

Red : represents metal

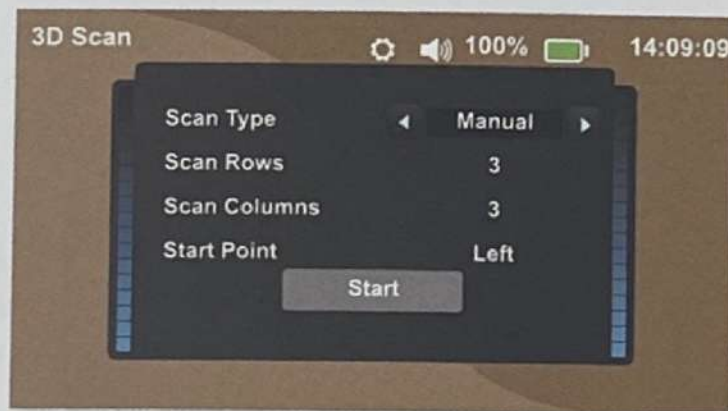
Blue : represents voids

Green : represents soil nature

3D Ground Imaging System

The three-dimensional ground imaging system is a very important system for all prospectors and explorers, and we have noticed in BR Systems that most prospectors have difficulty using and understanding this system, so we have developed an ultra-accurate and easy-to-use version to provide the user with the best result represented by a three-dimensional image of the layers of the Earth with pinpoint accuracy.

Note:
The PowerMax 55
Sensor should be
connected prior
starting the search



Starting
Phase

First, we choose the scan type, whether it is manual or automatic. Manual requires the user to push the handle button to take each sample while the automatic takes a row of samples with a single click.

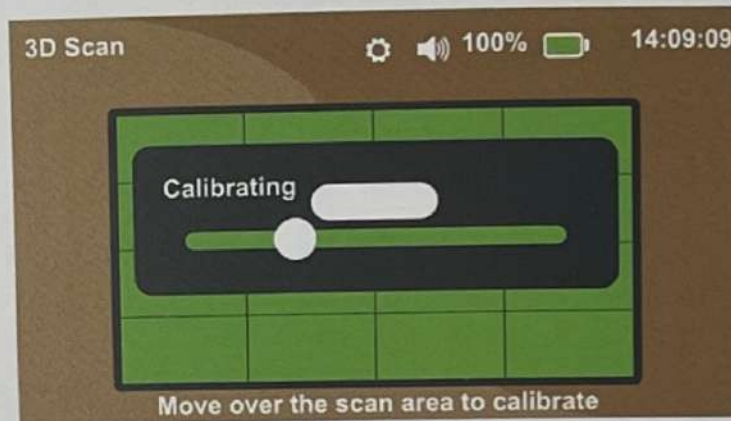
3D Ground Imaging System

Then specify the scanning area by choosing the number of Scan Rows and Scan Columns, note that the minimum is 3 and the maximum is 9.

The user has to multiply the steps by the desired offset, for example the typical step size is around 30cm (1ft).

A higher count of samples provide a more accurate result while needing more time. The user also can select where to start the scan of the grid either bottom left or bottom right.

Then press the start button.

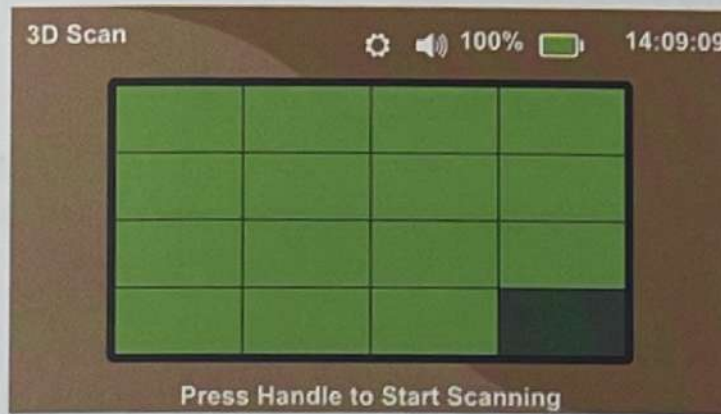


Calibration
Phase

Before starting with the scan process the device needs to be calibrated with the area. Press the handle button to start and

3D Ground Imaging System

aim the device vertically towards the ground and roam around in the scanning area. Once the calibration is complete the scan can begin.



Calibration
Phase

The scan grid shows a green fill with an overlay grid according to the selected scan parameters.

The user starts from the point which selected and press the handle button to acquire a sample. If the scan type is manual the user needs to press the handle for each step and sample, while in automatic the device will start acquiring samples for the entire column of the grid. The device beeps once every time a sample is taken and beeps twice when a column is finished

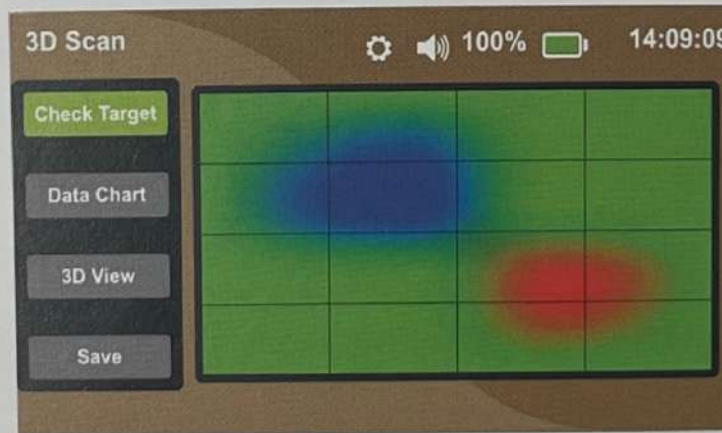
3D Ground Imaging System

After completing the scan of the area, the device gives an accurate picture of the shape of the target in several colors. Each color symbolizes a specific target as follows:

Green: the nature of the soil

Red: Metal and Minerals

Blue: Voids and Caves



Result
Phase

The user can further examine and investigate the scan area by choosing different views and representations of the search.

3D Ground Imaging System

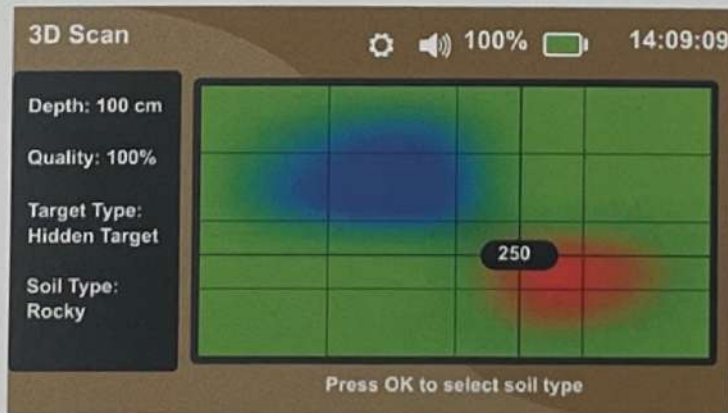
Check Target:

The user can examine each point individually. The device shows the value of the selected point as well as the estimated depth, quality and type.

The soil type can be changed by pressing OK to compensate for different parameters.

The soil types are Neutral, High Mineral, Sandy, Rocky, Clay, Dirt and Dry soil.

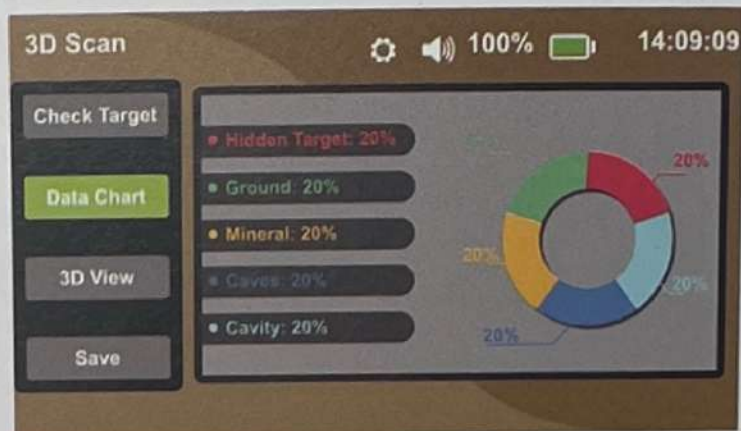
Select a soil type that matches the scan area or a similar one for a better result.



3D Ground Imaging System

Data Chart:

The scan result values are analyzed and then shown in a graph for fast estimation of the overall percentages of the scanned area. Note that although the graph differentiates between multiple types of targets, the user should be aware that some targets might lie in between two types.



3D Ground Imaging System

3D View:

This feature gives the user a 3D mesh representation of the scan area showing the high and low points.

Different views are also available for a comprehensive conclusion regarding the scan area, estimated depth or target position.



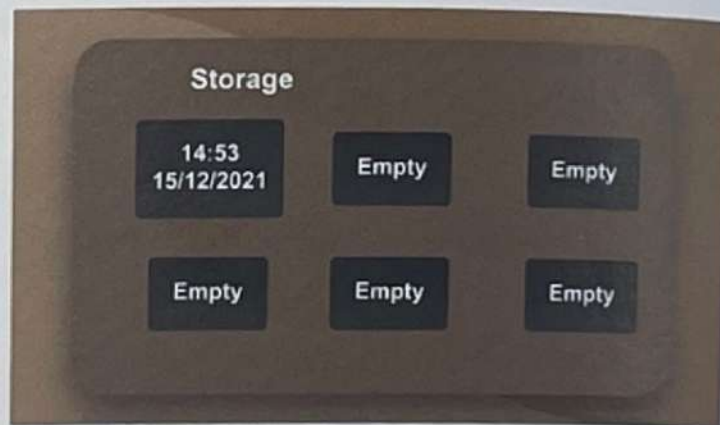
3D Ground Imaging System

Save:

The scan data can be saved in the device for future reference or investigating the data later on.

To save a scan select the save icon and select which slot to be saved in and it will rename the icon with the current time and date of the scan.

For viewing the saved scans, simply go to settings and select storage where you can view or delete saved scans.



3D Ground Imaging System Search Method

Make sure that the PowerMax 55 sensor is connected, and then choose the 3D scan system from the main menu

First, select search options from the system control panel

Press the arrow buttons to move between the options and choose the type of scan, Manual or Automatic

In Automatic Scan, the device sends signals automatically and gives 3D images. In the case of Manual Scan, the user must press the handle button sequentially to send search signals and get 3D images.

Change the number of lines and columns to control the size of the scanning area

Select the starting point from the right or left

After confirming all the previous points;

Press the start button to move to the calibration window where the device asks to move over the scanning area and then press the handle button to start the calibration process

Then the device will go directly to the search process

- Press the handle button, the device gives an individual alert when scanning each part of the search area and gives a prolonged

3D Ground Imaging System Search Method

alert when the scanning of each column is completed.

Move over the area to be scanned in steps consistent with the scanning signals emitted by the device

After completing the search process, the result appears clearly in the form of an image showing the layers of the land that were scanned and the targets discovered in the scan area.

- Click on Inspect the target in order to know the details of the image. Using the arrows, you can switch between the positions of the image and identify the depth and type of the target, in addition to the possibility of knowing the type of soil
- Click on the graph option in order to analyze the image and find out the percentage of elements in it
- Click on the 3D view in order to view the image of the target with multiple 3D patterns and shapes
- Click on Save Scan in order to save the result in the device's memory and refer to it later

Warranty Terms and Conditions

A. Extent of limited warranty

1. BR SYSTEMS warrants to the end-user customer that the BR SYSTEMS product specified above will be free from defects in materials and workmanship for the duration specified above, which duration begins on the date of purchase by the customer.

2. For software products, BR SYSTEMS limited warranty applies only to a failure to execute programming instructions. BR SYSTEMS does not warrant that the operation of any product will be interrupted or error free.

3. BR SYSTEMS limited warranty covers only those defects that arise as a result of normal use of the product, and does not cover any other problems, including those that arise as a result of:

A. Improper maintenance or modification;

B. Software, media, parts, or supplies not provided or supported by BR DETECTION;

C. Operation outside the product's specifications;

D. Unauthorized modification or misuse.

Warranty Terms and Conditions

4. For BR SYSTEMS products, the use of a non-BR SYSTEMS accessories does not affect either the warranty to the customer or any BR SYSTEMS support contract with the customer, However, if product failure or damage is attributable to the use of a non-BR SYSTEMS accessory, BR SYSTEMS will charge its standard time and materials charges to service the product for the particular failure or damage.
5. If BR SYSTEMS receives, during the applicable warranty period, notice of a defect in any product which is covered by BR SYSTEMS warranty, BR SYSTEMS shall either repair or replace the product, at BR SYSTEMS' option.
6. You can request warranty services through BR SYSTEMS or any approved seller or distributor.
7. In case of maintenance inquiry, you can request maintenance through our approved sellers or agents and the customer shall pay only shipping costs during warranty period.

Warranty Terms and Conditions

8. This Warranty Card will not be considered as valid until the customer fill the registration form on BR SYSTEMS TECHNOLOGY'S website, and warranty begins on date of purchase mentioned on warranty card.

Online Registration Form Link; <http://www.brdetector.com/register-check-guarantee/>

B. Limitations of warranty

NEITHER BR SYSTEMS NOR ITS THIRD PARTY SUPPLIERS MAKES ANY OTHER WARRANTY OR CONDITION OF ANY KIND, WHETHER EXPRESS OR IMPLIED WARRANTIES OR CONDITIONS OF MERCHANTABILITY, SATISFACTORY QUALITY, AND FITNESS FOR A PARTICULAR PURPOSE.

C. Limitations of liability

1. The remedies provided in this Warranty Statement are the customer's sole and exclusive remedies.

Warranty Terms and Conditions

2. EXCEPT FOR THE OBLIGATIONS SPECIFICALLY SET FORTH IN THIS WARRANTY STATEMENT, IN NO EVENT SHALL BR SYSTEMS OR ITS THIRD PARTY SUPPLIERS BE LIABLE FOR DIRECT, INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES, WHETHER BASED ON CONTRACT, TORT, OR ANY OTHER LEGAL THEORY AND WHETHER ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

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Contents

Safety information: -----	2
Introduction -----	4
Technical specifications -----	5
Package Contents and Components -----	8
Device overview -----	9
Device Assembly -----	10
Keys & Buttons -----	11
User Interface -----	12
Settings -----	13
Long-range system -----	18
Enclosing on target using the "box" method -----	24
Determining target offset while drilling -----	25
Long Range System Search Method -----	26
Ionic search system -----	28
Ion System Search Method -----	30
Magneto Scan system -----	31
Magneto Scan Search Method -----	34

Live Scan system-----	35
Live Scan Search Method -----	37
3D Ground Imaging System -----	39
3D Ground Imaging System Search Method -----	47
Warranty Terms and Conditions -----	49

GOLD STEP PRO MAX

GOLD AND METAL DETECTOR



USER MANUAL

5 SEARCH
SYSTEMS

Technical specifications

The BR Gold Step Pro Max features 5 search systems:

1- Long-range search system: that has proven its effectiveness and ability to pinpoint targets, locations and depth with high accuracy.

The frontal distance that the device reaches: 2000 meters.

Maximum depth: 50 meters.

Targets: Gold, Gold Nugget, Silver, Bronze, Copper, Cavity, Iron, Aluminum, Lead, Tin, Water, Mercury, Diamond, Emerald, Ruby, Precious Metals and Custom Target with a frequency up to (100KHz).

2- The ionic search system: which in turn is also the best system for detecting precious metals and ancient buried treasures buried hundreds and thousands of years ago with very high accuracy and with great ease.

3- Magneto Scan System: The latest electromagnetic system currently on the market and invented exclusively by BR Systems Company. This system is based on searching for electromagnetic

Long-range system

First, make sure that the PowerMax 25 sensor and the antenna of the long-range search system are connected.

To ensure that you get correct results, you must stay away from all influences that may affect the validity of the search results, such as metal debris, cars, electrical wires, and high voltage lines near the device.

The search should be at least 200 meters away of previously mentioned objects.

The user has to point the device towards the south because the static electric fields send their waves from north to south.

After specifying all the options from the type of target, the front search distance to be searched, the depth you want to reach, and the appropriate frequency, the device must be held in the correct way as it is parallel to the ground and the arm is at a right angle against the chest.



Frequency Adjustment

The device is pre-programmed to its targets.

According to the searching area requirement the operator can adjust the frequency for the search by pressing Left and right in while the search is started.

For example let's explain how this tuning is done for gold. At your searching area, bury a couple of gold objects (can be any carat, for example 18 carat) gold coins, bracelets, chains etc and there is no need to bury them very deep for tuning.

Turn on the detector and come to the gold program then press enter for a couple of seconds after that the tuning screen will be on as on the figure, you will see that you can decrease or increase the searching frequency by at most 10 Hz with the left right arrow buttons. In other words every tuning grade changes the frequency about 1 Hz.

Gold's main frequency is 5000Hz as default. If you tune it to +5, frequency will increase about 5Hz and to 5005Hz. Or for example if you tune it to -10, the frequency will decrease 10 Hz to 4990Hz. The operator must change the tuning and save the tuning when he/she gets the strongest response from the buried sample.

Live Scan system



Note:

The PowerMax 55
Sensor should be
connected prior
starting the search