BR100-T

HEADLINE

BR100T one of the best long range detectors in the world to detect gold and other metals to 20 meters depth and 1000 meters as long distance

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USER MANUAL

BR Systems.

Congradulations on purchasing your BR gold and metal detector

INTRODUCTION:

Before invent metal detectors! , people didn't have anything than simple ways to find and discover gold and other metals .

In the past Spanish on America were used to discover many precious metal mines with some of old exploration methods. Now with technology adventures of exploration were so enjoyable and usefull. For example, when you use a long range system device you can search wide area and determine any target place arround you.

One of the best detectors that working with long range system is BR 100-T that developed to search for gold, gold nugget, silver, bronze and cavity , this device was made from the best American microprocessor which mean more accuracy in searching and mining by choosing exact frequencies for the precious metals Inaddition to the transmitter that can give you increasing to the depth and the distance

GOOD DETECTING:

The main important note about Long Range Detectors is to scan wide area at the best time and with BR100-T you will be able to search any area in a very short time

Contents

3 List Of Parts

4 MU Description

5 Starting

6 Starting continued..

7 Lets turn on the device

8 Determination Of Target Location

9 TARGETS IN LONG DISTANCES

10 TARGETS THAT INCLUDE MINERALS

11 TARGET DETERMINATION WITH GETTING IN THE BOX METHOD

12 Other explanations about usage

13 Other explanations about usage continue ...

14 The effects of weather conditions and field conditions

15 Technical properties

16 Taking Care of Your Detector

3 List Of Parts

WaterProof APS Case

A pair of antenna

Main Digital CU

Car charger

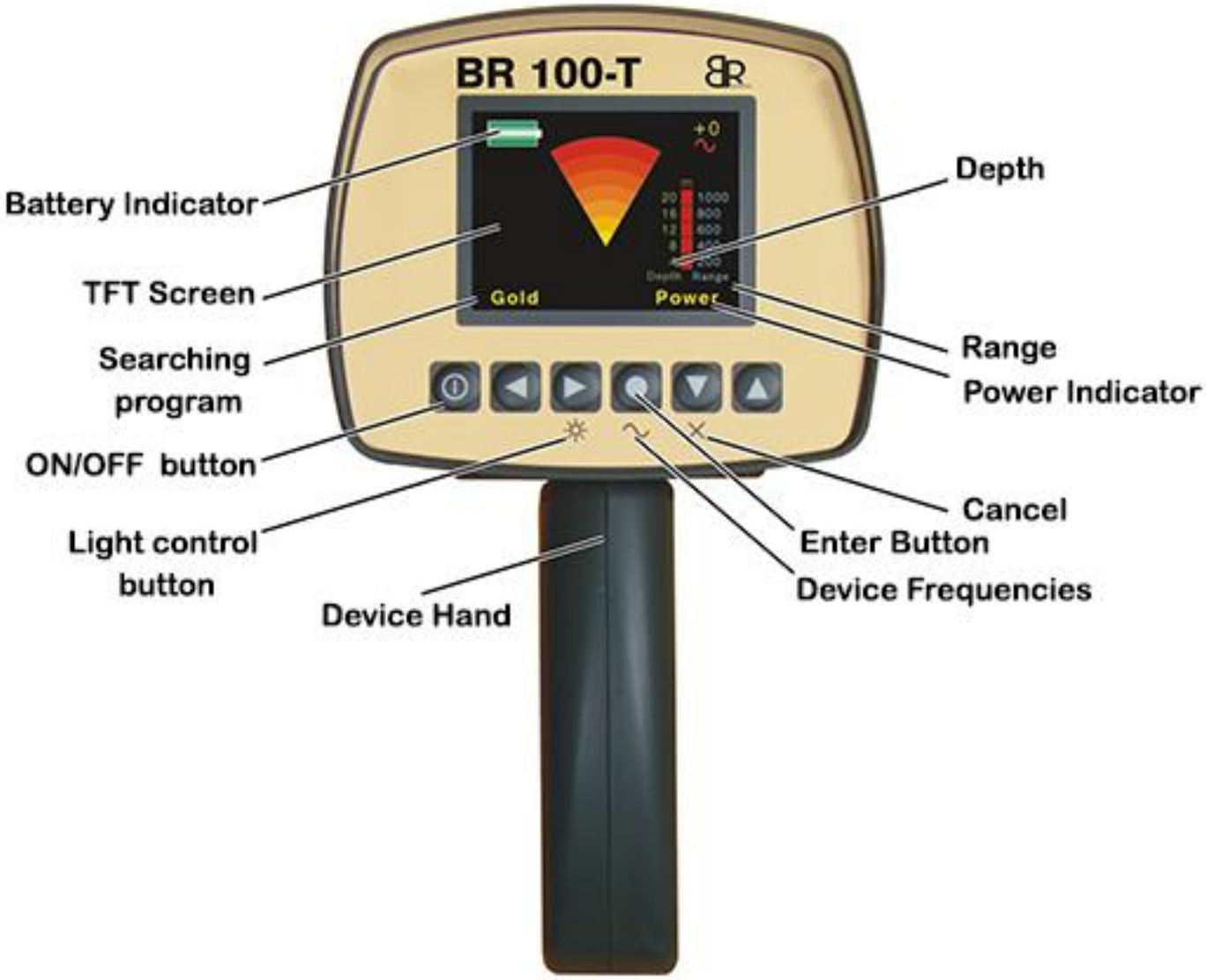
Rechargeable batteries
(3.7 Volt 2700 mAh)

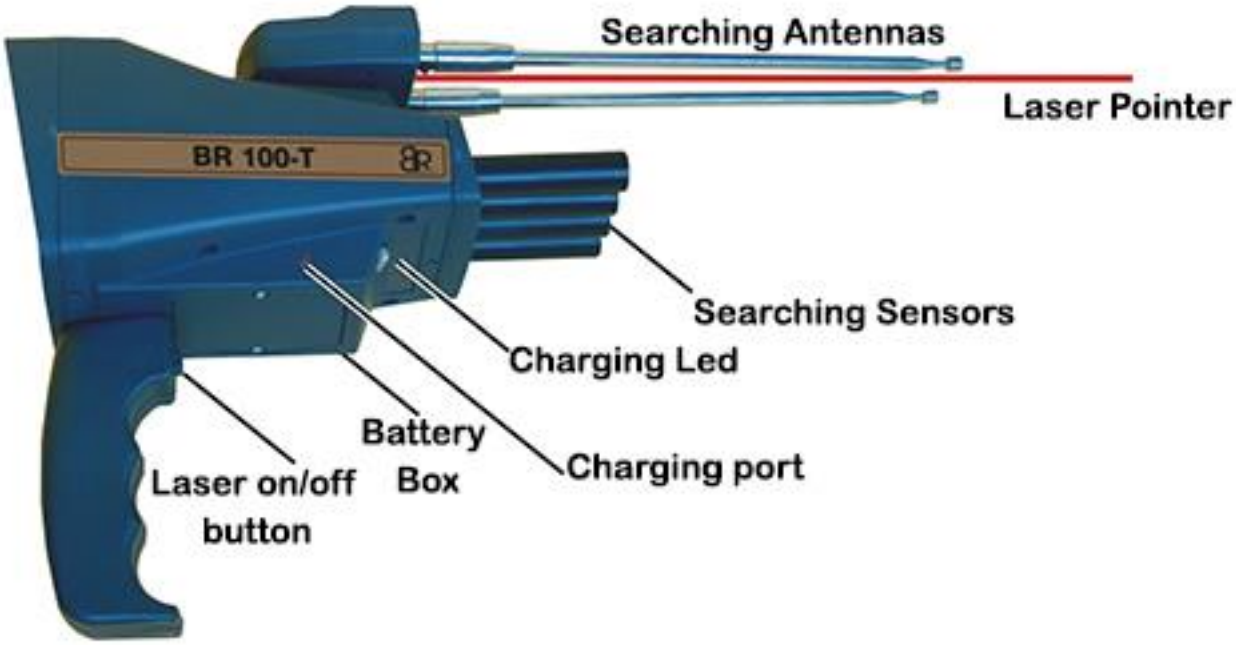
Batteries box
(AA type)

Home charger

Charger Cable

MU Description





BR100-T Main Unit

OPERATING INSTRUCTIONS

1 - BR100-T as an electronic device it may affected any other electronic device For example digital watches, cell phones or any other electronic device and these devices must be far about 60 meters (200 feet) from the main unit of the device Otherwise, there can be wrong results.

2 - This device will scan whole the area targets like (gold , silver and other metals) so it can detects things those wearing from people , but objects those are far and don't buried wont have any effect.

How to use second functions:

There are some other functions by the device buttons as the following :

- Holding the "right arrow" button will dim the LCD backlight.
- Holding the "enter" button will open sensitive frequency tuning.
- Holding the "down arrow" button will cancel.

DETECTOR EXERCISES: You don't have to turn on the detector while doing these exercises.To detect small targets, there are bearings placed in the hand,this device can turn around the handle about 270 degrees totally freely. For a stable search, the operator must familiarize his/her hand with the holding hand.The operator must hold the detector in a stable way and in a non tiring way ,while walking the antennas should not move left or right , prospectors using a detector like this for the first time must do exercises enough for professional on use .

Hold the detector by opening the antennas and by holding it at chest level and If the antennas point slightly downwards balance can be maintained easier ,then must you turn from your waist by holding your arm still and your feet open, you can do an easier search. If you tilt your hand left or right while searching then balance will be lost and the detector will turn to that direction.

Starting continued..

You can recognize this and immediately fix your hand's position by getting experience you will be able to do the searching in a better and more stable way. Multiple searches will be helpful to understand if you are on a right trail or not on the same area ((The detector detects more powerful in areas where older objects were buried rather than newer ones)) As it is known when an object stays for a long time underground, then more effects will happen which is very helpfull for the device to detects targets. New buried objects (even the object is old), won't have the ability to hace electromagnetic field arround the target.
For a trial, if you wait a couple of days after burying gold or silver, you will see that the detector will detect stronger. If you make sure that you can searching easily then it is time to start searching with the detector. For this take everything out and start to exercise on buried targets.

Note : Firstly, The skills must be gained from known targets. You can gain this experience by exercising at open areas like gardens, fields etc.

How to make connection :

1 - Insert the battery inside the detector. After inserting the battery carefully, close the lid. Firstly the rechargeable battery isn't fully charged, because of this, charge the battery for approximately 10 hours after first use.
P.S: You can check the battery from the battery indicator in the screen.
The indicator decreases gradually while voltage decreases. At the lowest level, the battery indicator starts to flash. The battery must be recharge in this situation.

2 - Carefully connect the telescopic antennas and make sure that the antennas are correctly connected. Because there is a lock system at the antenna connectors, disconnect the antennas by pressing the black buttons on the connectors. Otherwise, the antennas may be damaged.

3 - For exercises, bury one or more gold, gold nugget or silver pieces without cover anything around them ,because they are newly buried, to make an electricity conduction with the soil, pour some water on them ,after 2-3 days you will see that the attractive force will increase.

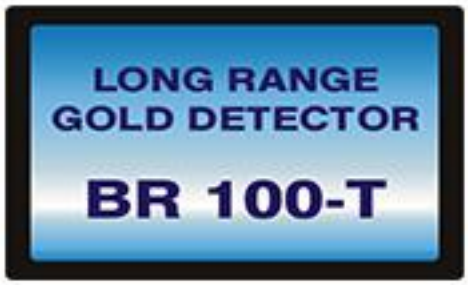
7 Lets turn on the device

4 - Open the antennas.

5 - Turn on the device, after the brand and model number, language selection menu will be displayed. Select your desired language through arrows and to accept your selection, press the enter button. The detector will hold your selection in its memory and no new selection will be needed in every use.

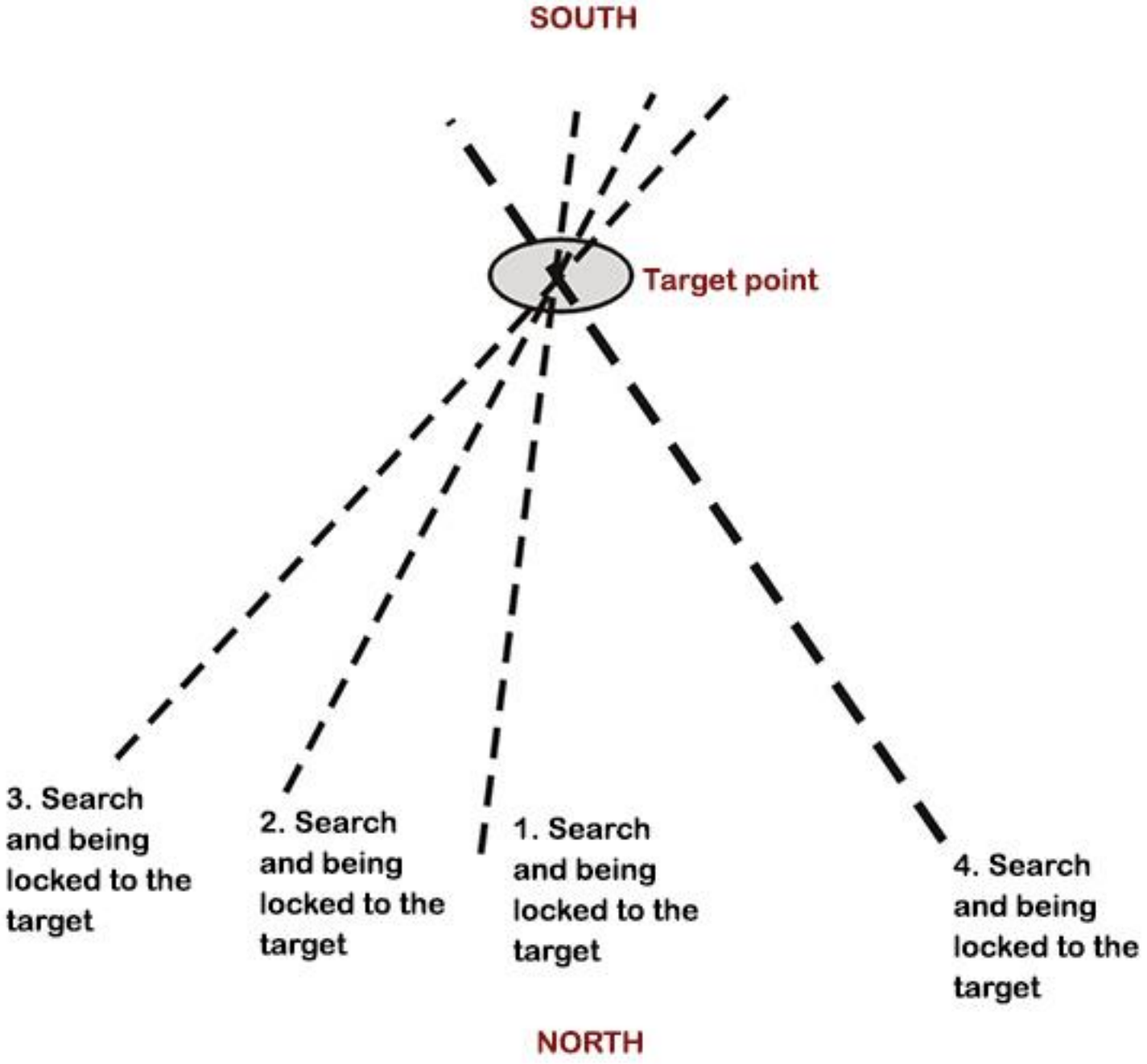
6 - Choose the desired metal with the program buttons.

Some of screenshots in the device



8 DETERMINATION OF TARGET LOCATION

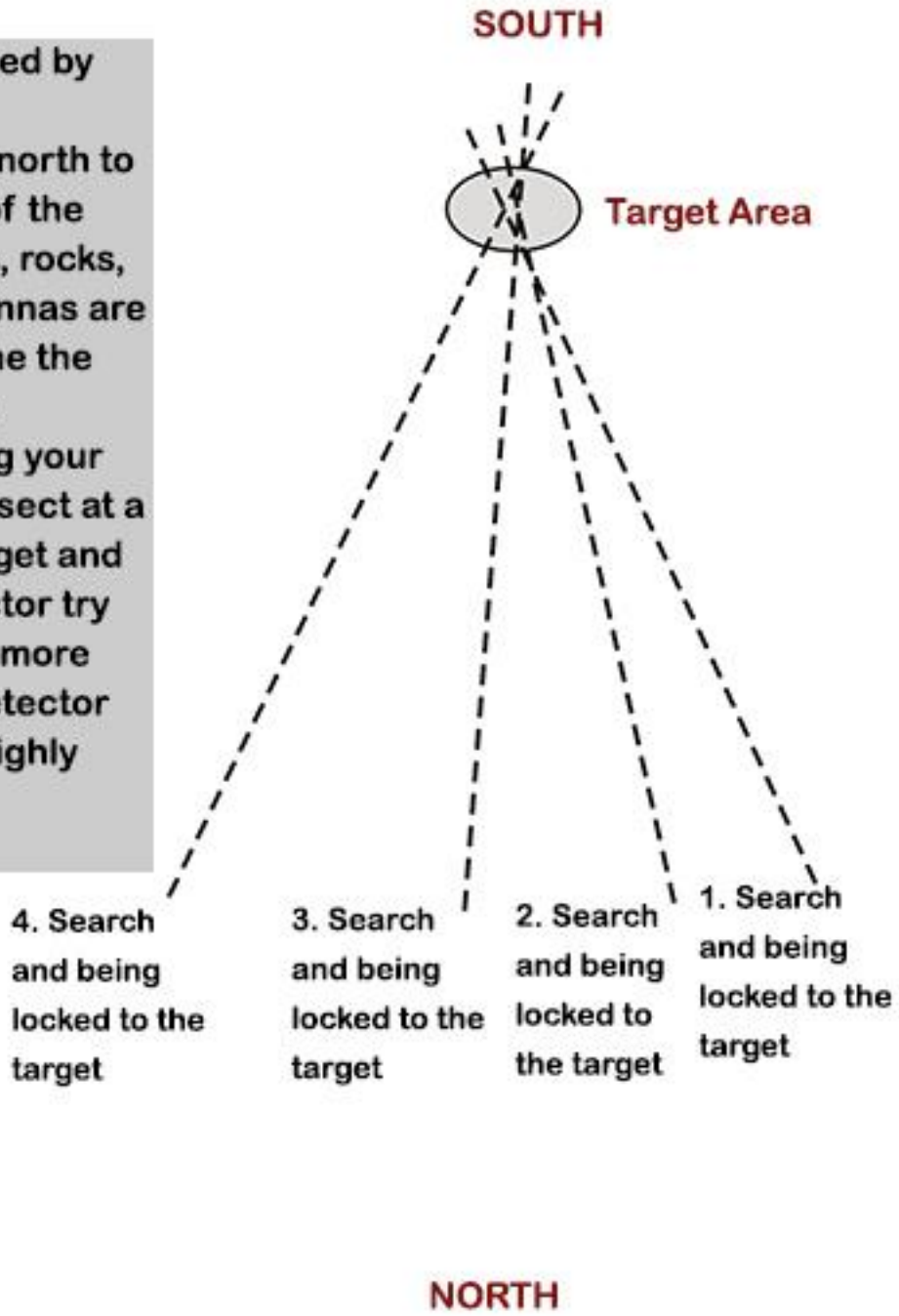
Turn on the detector and adjust the detector to medium power.
For initialization, wait for 2-3 minutes and touch the antenna's tip to the ground for a short time. Now turn your back to north and turn towards the area that you are going to search , then scan the area from left to right and right to left.
The antennas stay till you found any target arround you , even you continue to turn the handle, the antennas stay pointing the target.
Make this searching application a couple of times until you are sure about the target.
There will be strong attraction can mean a large target in long distance or a small target in short distance.
These searches must be done heading south from at least 3 other points to determine the target location.



9 TARGETS IN LONG DISTANCES

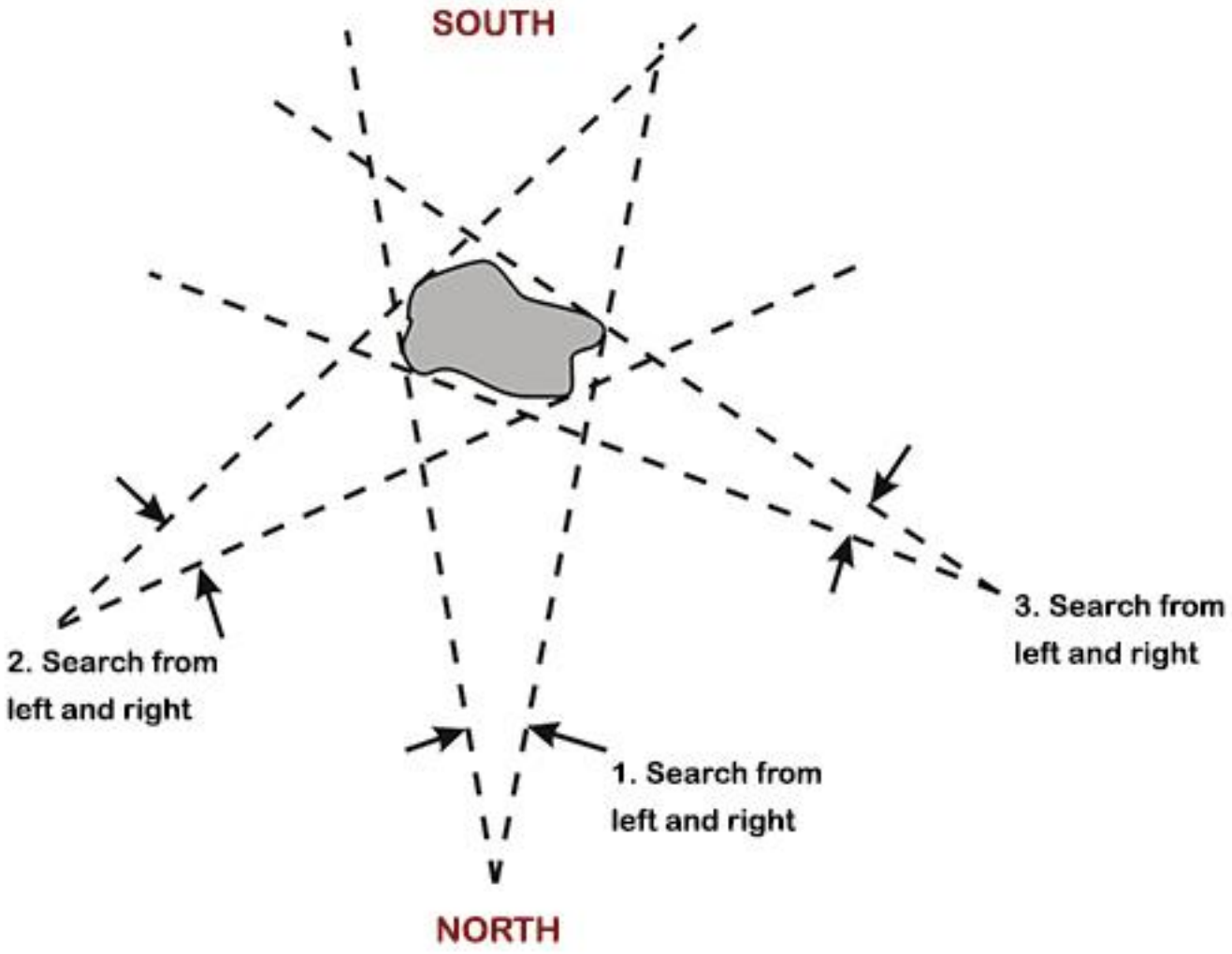
Let's say that the antennas are locked on the target while searching, in this situation with the help of the laser beam, mark this direction by drawing a line on the floor or putting marks, or use natural reference points like trees, rocks etc. Move left or right about 10-15 steps and search again towards the target. The antennas must again be locked to the target. Also mark this direction and mark the intersection points of the two lines. Again move 10-15 steps to the same direction and find another line that leads to the target. Your target must be around the intersection of these three lines. If there are more than one buried object in the area, you can determine the target locations by closer searches. With this method, a small area with scattered objects can also be found. In this situation you can use a regular metal detector to find the objects one by one.

To avoid errors that can be caused by the magnetic field of earth, the prospectors must be done from north to south. Determine the direction of the target in a wide area using trees, rocks, stationary things etc. if the antennas are locked on a target then determine the second and third lines when the antennas are locked by changing your place. Let's say these lines intersect at a very far point, go near to the target and by the help of laser on the detector try to determine the target location more clearly. Using a regular metal detector to double check the target will highly reduce mistakes.



10 TARGETS THAT INCLUDE MINERALS

The following method can be used to discriminate targets from rocks with high amounts of minerals or areas.
If the determined target is far, the operator gets closer to the target and searches again from 3-4 different points. These searches are made from left to right and right to left twice. If isn't a point target but a wide mineral area, when the detector is searching from left to right, it catches the left side of the area and when the detector is searching from right to left, it catches the right side of the area. When this operation is done from 3-4 places, the target's frame is outlined. These locking-ons on the target are not very stable on high mineral targets



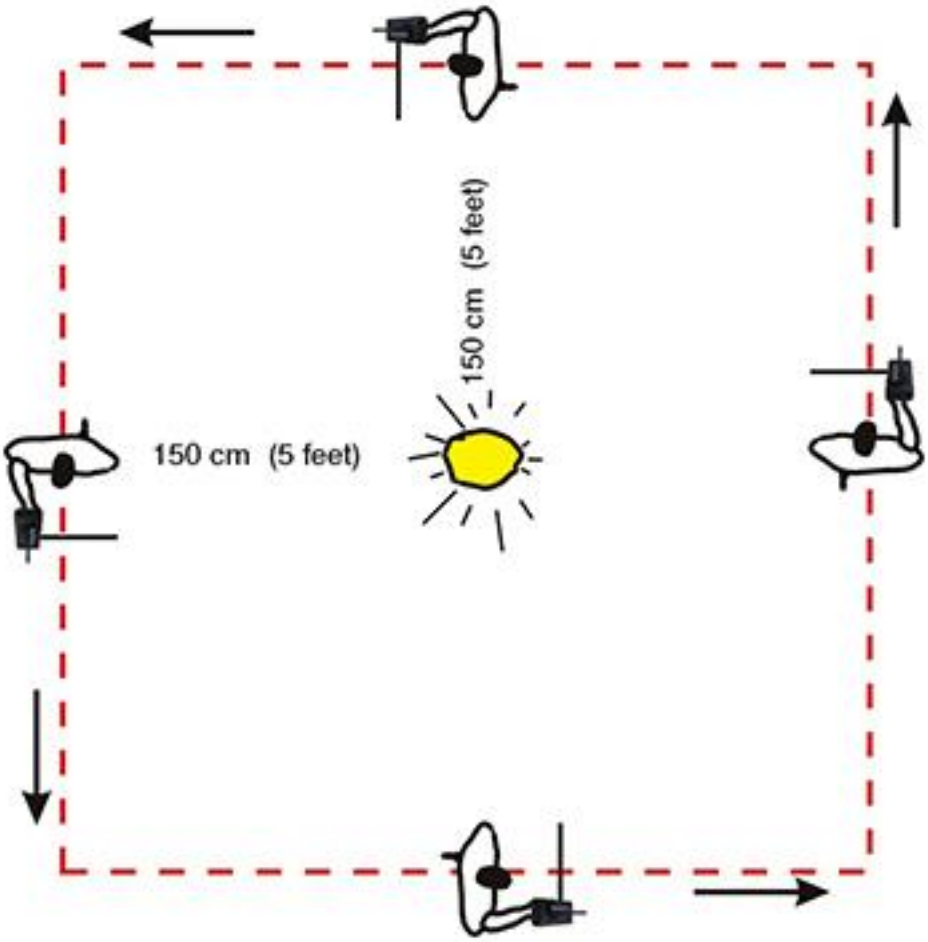
LARGE BURIED OBJECTS

If the target is a large one , attraction power will be high and the lines found searches from left and right will be at the same direction and much more stable. They won't change location in every search.

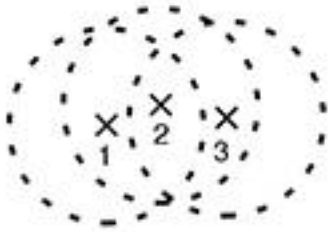
TARGET DETERMINATION

WITH GETTING IN THE BOX METHOD

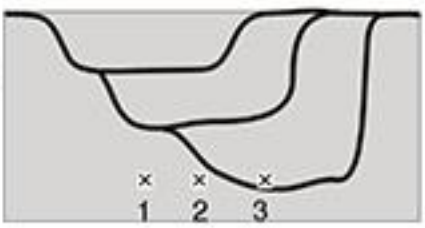
This method helps the prospectors to determine the buried target's location more accurately. The prospector makes a square around the target area which was found about 150 cm (5 feet) far from the center. When the the operator's location is at the same direction with the target, the antennas turn towards the target. Checking from 4 sides, the location of the target gets more accurate.



DETERMINATION OF TARGET DISPLACEMENT WHILE DIGGING



On some problematic areas, there can be mistakes on the target points that were determined with the detector. For example, let's think that you found an object at 3 meters (10 feet) depth. While digging, at every half meter (24 inches), the target location must be checked with the boxing method, if there is target displacement,the digging must be moved in that direction.



By this the digging will be in less time and accurate. On areas like this, double checking the target location with regular coil detectors will prevent needless digs.

12 Other explanations about usage

1 - SENSITIVE FREQUENCY TUNING

Your detector is pre-programmed to the gold, silver, bronze, diamond etc, According to the searching area and operator's sensitivity frequency tuning can be done.
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 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 5000 Hz as default. If you tune it to +5, frequency will increase about 5Hz and to 5005 Hz. Or for example if you tune it to -10, the frequency will decrease 10 Hz to 4990 Hz.

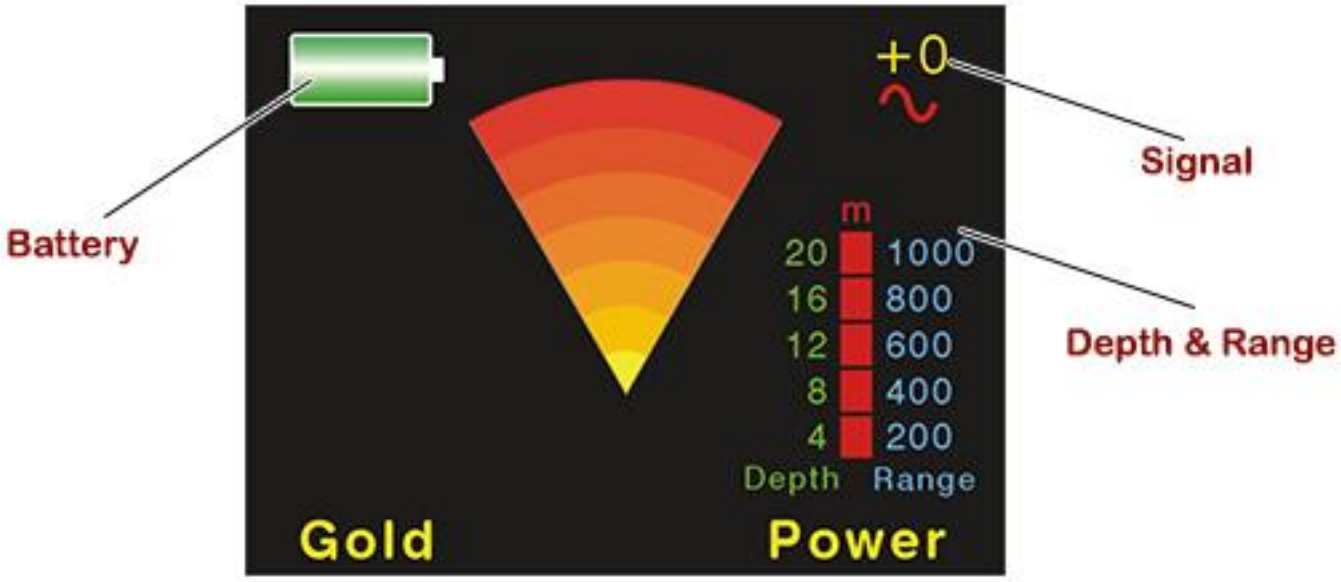
To save the new tuning press enter , and new tuning will be visible at the left side of the display; even if you turn off the device, all new tuning will be stored in the memory.

The operator must change the tuning and save the tuning when he/she gets the strongest response from the buried sample.

Other explanations about usage continue ...

2 - POWER TUNING

If you don't want your detector to search far distances and at tight areas, you must decrease its power. For this, you can usethe ▲ ▼ buttons to decrease the range. But at this situation, you must know that the depth will also decrease a little.



3 - SOUND NOTIFICATION

Your device has sound notification system. When the buttons are pressed there is sound notification.

4 - BATTERY INDICATOR

Your device is working with a rechargeable battery or with a battery box for usage for regular batteries and you can continue searching if the rechargeable battery is dead by replacing it with AA batteries .

You can check the battery state at all times from the detectors display screen.
As the battery voltage decreased the battery indicator will decrease gradually and when a battery replacement is needed, the last battery grade will start to disappear.

The Effects Of Weather & Field Conditions

5 - THE EFFECTS OF WEATHER CONDITIONS AND FIELD CONDITIONS

It will be always useful to carry gold nuggets or some gold pieces to control the unit's sensitivity in bad weather conditions.Explosions on the sun can have bad effects on this detector as it has on every other electronic devices all around the world. This situation in weather conditions can last a couple of minutes, hours or more.

Also you can wear gloves in cold weather. In these situations, the best will be to wait until the conditions get well.

The change in the crossing of the antennas in 30 seconds while on a buried target shows that the target is non real. This incident occurs mostly in areas with radioactive rocks.

For efficient use, not only the detector's quality is important, but also usage is very important.

For professional use, practice must be at least a couple of days, until you feel that you can use the device well

Attention: detection depths and ranges shown on the screen may changes according to the target size

TECHNICAL PROPERTIES

Display screen : TFT 3 inch
Display screen illumination: LED
Microprocessor: ARM
Operation frequency: 168 MHz
Control buttons: Touch operated
Receiver antennas: One pair
Operating voltage: 3,7V - 4,5V
Battery: 4x1.5V AA type
Rechargeable battery: 3,7V, 2700 mAh Li Ion
Nominal current: 250 mA
Charging adapter: 5 Volts, 2000 mA, charge indicator with LED
(When charging is done LED fully dims).
Vehicle charger: Input:12V, Output: 5V, 1000mA USB
Device bag : Waterproof ABS, sponge coated
Weight: 3.4 Kg (Waterproof case included)

Taking Care of Your Detector

Aftercare:

1 - The device was produced for hard environmental conditions. However you shouldn't forget that your detector is a sensitive electronic device. Don't be aware of using all features of your detector, but use it with care and protection.

2 - You must protect your detector from extreme cold and hot temperatures. For example don't leave it outside at hot summer days or in your car's trunk for a long time. Also don't leave it outside at cold winter days.

3 - Don't leave it under rain and at places with high moisture.

4 - Your detector must remain clean at all times. Clean the detector after every use. Don't use a too wet cloth etc. for this.

5 - If you are not going to use your detector for a month or longer, take out its battery from the battery box, don't leave the device with battery.

Transportation of the detector:

Your detector is an electronic device and you should move it carefully

1- Place the separable parts in the device bag, and don't carry the parts randomly in a bag or box etc. where they can harm each other or break.

2- Don't leave the device out at rain, snow even if the device inside its waterproof bag.

3- While shipping by cargo etc. it is best for the parts to be in their original packages, or if not possible, packaged properly.

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Travelling with your detector

If you plan on travelling by air, please be aware that

certain airlines have restrictions on the transport of LI-ion batteries

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