



TREASUREHUNTER3D
Makes underground treasures visible

INSTRUCTION MANUAL

TreasureHunter



GoldenEye



GoldenEye Plus



TreasureLight



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WELCOME

We would like to congratulate and thank you that you decided for TreasureHunter3D metal detectors and joined people around the globe that enjoy this fun and rewarding hobby.

TreasureHunter3D detectors were designed as a line of products that use advanced smartphone technologies that enable user not only to find treasures like ancient objects, caves, tunnels, caverns, water sites, tombs, vases, graves, underground pipelines, oil wells, old wine cellars, world war findings, gold treasures. But to visualize them on the screen before digging.

Here at TreasureHunter3D we are constantly focusing on innovating in order to provide high-quality, affordable & easy to use products that incorporate high technology to our customers, by purchasing this device you are helping us to push metal detecting to the next level.

TreasureHunter3D team wishes you successful treasure hunting

REVIEWS

THOMAS A GARA

Archeologist scanning at Pikillacta,
Cusco Peru



“With this device archeologists can easily determine if excavation site has good possibilities and where may they lay! Similar product on the market are usually very expensive, bulky and don’t provide so high resolution & scan sensitivity.”



YOUSEF

Treasure hunting enthusiast from Israel



“I really could see what is under me instantly in some cases when there is an ancient structures I could see walls rooms dividers on the screen while I am walking that was really surprise for me I could never think that such a tiny small my device could do that.”



Read before use

Metal detector safety warnings

Any piece of equipment can be dangerous if not operated properly. It is YOU who is responsible for the safe operation of this equipment. Any metal detector may discover explosives, underground power lines, sharp objects or other items that could cause personal injury.

The company or the manufacturer of the metal detector device DOES NOT ACCEPT responsibility for any personal injury or personal property damage!

To make your search more secure, please follow this precautions:

- never treasure hunt in a zone where bombs or other explosives may be buried
- never treasure hunt in an area where there might be underground electric lines or pipes buried at a shallow depth
- never treasure hunt in an area with flammable gas or liquid pipelines
- always use reasonable caution in digging, specially in areas where you are uncertain of underground conditions.

Treasure hunter’s code of ethics

- Respect the rights and property of others. Do not enter private property without the owner’s permission.
- Always check Federal, State, County and local laws before searching
- Never destroy historical or archaeological treasures.
- Take care to refill all holes and leave the land and vegetation undamaged
- Always Appreciate and protect our inheritance of natural resources, wildlife and private property.
- Remove and dispose of any and all trash and litter found. Be extremely careful while probing, picking up, or discarding trash items.
- Keep in mind that all treasure hunters may be judged by the example you set

Safety precaution for use

In order to prolong metal detector device life it is important to follow these precautions:

- Do not modify, disassemble, or open this product.
- Do not store your device for long periods with discharged batteries. Ideally you should discharge/recharge the batteries at least once a month, and if possible store them 40 to 70% charged.
- Do not expose your detector to extreme temperatures, particularly inside a car in full sun.
- Use and store the metal detector only in normal temperature environments. Temperature extremes can shorten the life of electronic devices and distort or melt plastic parts.
- The metal detector device is not waterproof. Make sure that you protect it in wet weather. Do not use solvents or alcohol to clean the detector. Soapy water is sufficient. Handle the metal detector gently and carefully. Dropping it can damage electronic components. It is not recommended to use this device for hiking purposes avoid strong magnetic fields generated by large magnets, loudspeakers or motors
- Use only approved USB chargers

Important notes

This detector is for outdoor use only. To get the best measurements results, avoid objects and magnetic fields that can interfere the metal detector device:

- magnetic fields from power lines or other devices
- objects and devices that are present in the indoor environment
- wearable metallic objects like: cell phones, keys, jewellery, steel toe boots
- environmental trash like: nails, cans, tins, screws or other debris

Metal detector device has no user serviceable parts. Improper opening of the device will damage the unit and void the warranty.

This detector detects best ferrous objects or any other material and structure that is surrounded or located within ferrous materials.

GoldenEye Plus

Professional 3D Ground Scan is supported on:
iPhone 6S and newer, running iOS 11.0 and newer



Assembly & Getting started

Charge the detector after removing it from carrying case. Use only the charger provided with the metal detector.

1. Prepare the metal detector (skip for TrespureLight model)

Open the clip and pull the rod out till you see the stop mark on a stick.

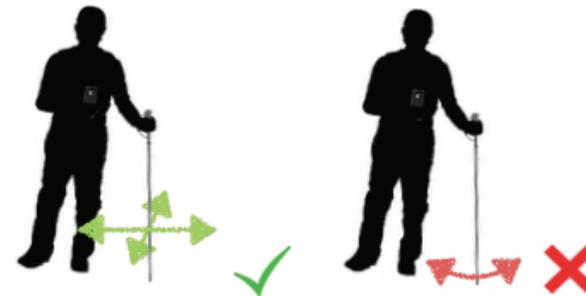


Always pull the rod straight! Rotating the rod may damage detector.

2. Learn how to handle the metal detector during treasure hunting

Hold the detector in straight vertical position close to the ground.

Move the detector only horizontally and don't swing or rotate it around its vertical axis during metal detecting!



3. Turn device ON

Hold control button (cca. 3 seconds) till the status LED turns GREEN.

4. Start treasure hunting

User can start treasure hunting:

- Using only detector device and headphones (Follow instructions in chapter Detect objects using headphones) or
- perform object scan using smartphone application (Read chapter smartphone application features)

5. Turn the metal detector OFF

Turn the metal detector off, by holding control button (cca. 3 seconds) till the status LED on the detector goes OFF

6. After finish using metal detector (skip for TreasureLight model)

Open the clip and push the rod back.

Always push the rod straight! Rotating the rod may damage the detector.

Detector device



Control button

STATE	ACTION
HOLD > 3s	Turns device ON and OFF
SHORT PRESS	<ul style="list-style-type: none"> Balance the device Starts or stops new line scan when operating in 3D ground scan mode
Light ON/OFF Switch	Only available on TreasureLight

LED indication

COLOR	DEVICE STATUS
GREEN	Device turned ON
BLUE	Device turned ON and Wireless connection with phone established
RED	Charging
BLINKING	Device Turned ON, Battery low

Connectors

CONNECTOR	USED FOR
Mini USB	Device charging
Jack 3.5mm	Headphones

There are two basic ways to use our metal detector devices. You can use the detector only using headphones or you can connect it to the smartphone and access all of the advance functions of it with our application.

Detect objects using headphones

1. Turn metal detector ON and connect the headphones

Plug the headphones into audio jack socket located on the handle of the detector device.

2. Balance the detector

Short press control button in order to balance the detector. Balancing is adjustment of the device to ground condition that can drastically change from one location to another. Detector can be balanced multiple times during the scanning.

3. Start treasure hunting

Detector will indicate the presence of an object by changing the frequency of short audio pulses. Silence indicates the absence of objects while the increasing frequency of audio pulses indicates that more metal is present.

4. Change the volume or sensitivity of metal detector device

The volume and sensitivity can be set using in the smartphone application. These two settings will also be stored into metal detector device and remain also after next metal detector device restart.

In the setting menu you can adjust sensitivity and the volume





Smartphone application features

Connect detector with application

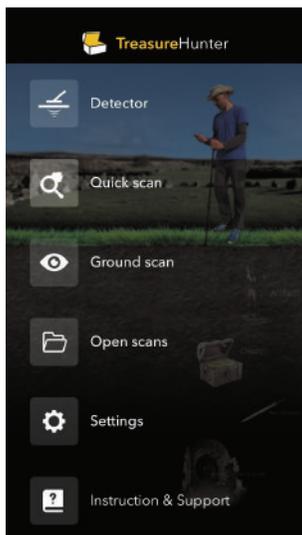
1. Installing application

Applications can be downloaded from <http://www.treasurehunter3d.com/downloads>. iTreasureHunter3D app can be installed from AppStore (for iPhone) or Google Play (for Android).

2. Make sure the Bluetooth is ON

3. Turn metal detector ON & run the application

- Main menu of the application allows user to:
- Detect the presence of an object (Detector)
 - Determine the size of an object (Quick scan)
 - View the shape or sub-surface view of an object (3D ground scan)
 - Tune the device by your own needs (Settings)
 - Browse stored scans (Open scans)



Detector feature

Detector feature allows user to detect presence of buried objects

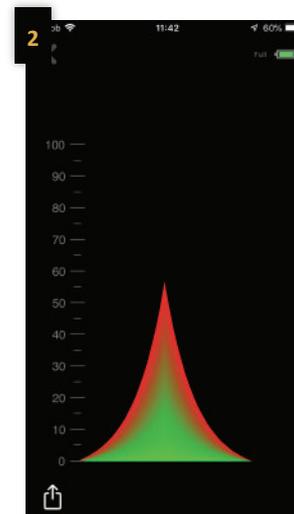
1. Balance the detector

Short press control button in order to balance the detector. Balancing is adjustment of the device to ground condition that can drastically change from one location to another. Detector can be balanced multiple times during the scanning.



2. Start treasure hunting

Detector feature will visualize the presence of metallic object as a magnitude



Quick Scan feature

Quick scan feature allows user to determine approximate size of an object and material

1. Balance the detector

Short press control button in order to balance the detector. Balancing is adjustment of the device to ground condition that can drastically change from one location to another. Detector can be balanced multiple times during the scanning.

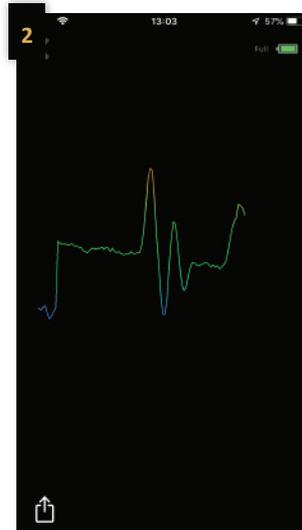


2. Start treasure hunting

Steady move the detector over detected object and observe its 1D signature. This feature will give you an insight into the size of the object.

Phone position Default setting for phone position is in Hand and works for all detector models.

On Detector setting can only be used with GoldenEye and GoldenEye Plus detector models.



The 3D Ground Scan feature

3D ground scan feature allows user to determine object size, shape and depth

There are three 3D ground modes available :

SCAN MODE	MODEL
BASIC 3D ground scan mode	Available for all models
ADVANCED 3D ground scan mode	GoldenEye only
PROFESSIONAL 3D ground scan mode	GoldenEye Plus only

BASIC 3D ground scan mode

To start using the BASIC 3D ground scan feature

1. Settings

First navigate into Settings page and make sure that your setting are set as follows:

Phone position: in Hand (user will be holding smartphone in your hand)

3D mode: Auto (user will start scan manually, but it will stop automatically)

Scan direction: Zig-zag (scan will be done in zig-zag direction)

Length: 2m (the length of single scan line will be 2m)

2. Balance the detector

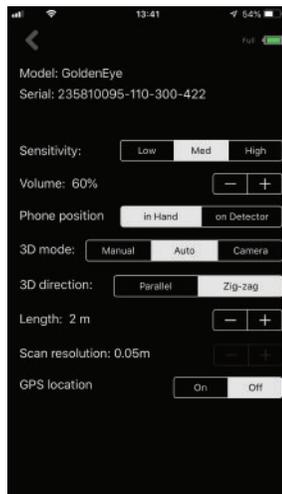
Enter Ground scan mode from the main menu, short press control button to balance the detector.

4. Start scan

Start scan by short pressing the control button on the detector or the "Start scan" label on the application screen and move the metal detector device slowly and at constant speed (around 20cm per second) in the scan line direction.

5. Stop scan

Scan will stop automatically after a predefined time period.



6. Move forward to the next line and repeat the scanning procedure

Repeat point 4. and 5. until you scan the whole required area. After each line scanned step move for a 1/5th of scan length in forward direction

7. Rotate the view

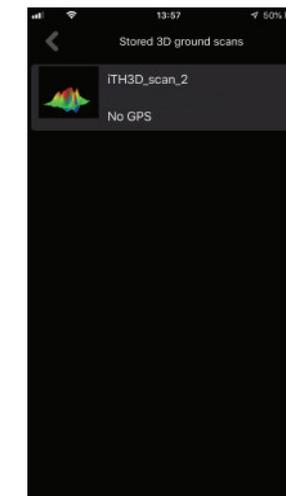
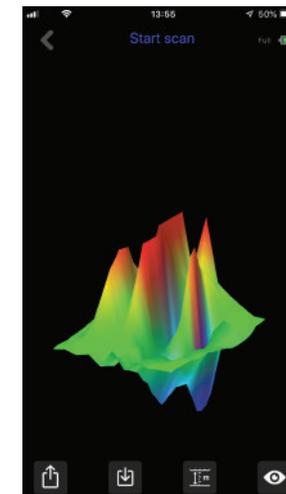
After user stops scanning the area, the 3D object view can be observed by finger controlled rotating and zooming features. Eye button enables user to switch from 2D to 3D view even if scanning is in progress.

9. Store scan

To store scan click on download icon and enter a meaningful name for your scan.

8. Share scan

To share scan via e-mail, message, Facebook or other possible solution, click on the upload icon in right-bottom corner.



ADVANCED ground scan mode

Notice: this mode is only available for GoldenEye detector model.

The difference between the TreasureHunter and GoldenEye is in ADVANCE ground scan mode. GoldenEye uses tag and phone camera to perform 3d ground scan.

It gives very accurate scanning results on the small areas and it gives better object visualization then BACIS scan mode available on TrespureLight and TreasureHunter detector.

To start using the ADVANCED 3D ground scan feature

1. Settings

First navigate into Settings page and make sure that your setting are set as follows:

Phone position: on Detector (user must place smartphone on handle that is mounted on detector)

3D mode: Camera (user will use phone camera to perform scans)

2. Place the tag on the area you would like to scan

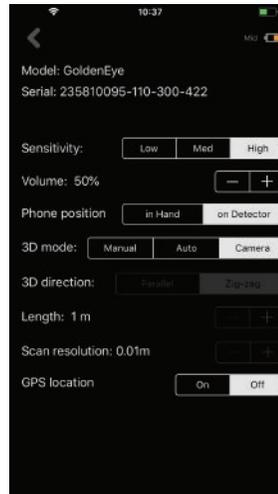


3. Mount the handle

Mount handle to the detector and place smartphone on it.

4. Balance the detector

Enter Ground scan mode from the main menu, short press control button to balance the detector.



5. Adjust the handle

Adjust the handle so that the end of the stick can be seen in the green rectangle.

6. Make sure tag is visible and detected

Make sure that the GoldenEye tag can be seen on the screen and is detected buy purple indicator.

7. Start scanning

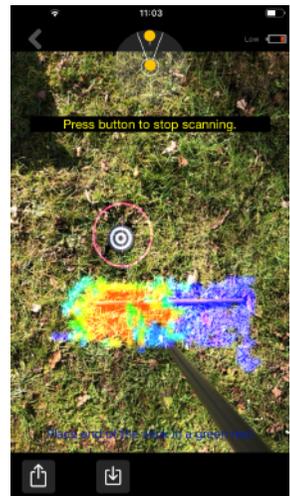
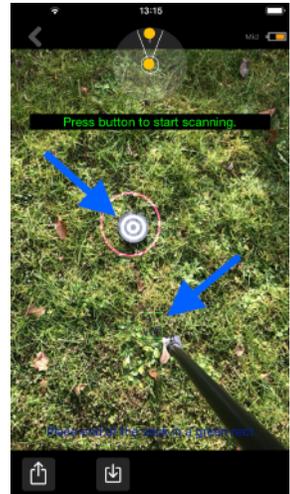
Start scan by short pressing the control button on the detector.

Once scanning is started you can slowly move detector in the area you would like to can. Make sure tag is always visible on the screen otherwise scanning will stop.

To achieve most accurate scan results it is also necessary to observe position indicator on the top of the screen as described in "Position Indicator" chapter.

8. Stop scan

Scanning can be stopped at any time by short pressing the control button on the detector.



PROFESSIONAL ground scan mode

Notice: this mode is only available for GoldenEye PLUS detector model.

This is our most advanced detector. Difference between GoldenEye Plus and other detectors is in Professional ground scan mode. This is the best 3D ground scanning option available on the market. Like GoldenEye it uses phones camera to visualize object but in this case the areas can be much larger, resolution is much higher and it can be also adjusted. GoldenEye Plus results are as accurate as possible. The scanned area stays on its place and you can observed from any angle thanks to augmented reality feature.

To start using the PROFESIONAL 3D ground scan feature

1. Settings

First navigate into Settings page and make sure that your setting are set as follows:

Phone position: on Detector (user must place smartphone on handle that is mounted on top of detector)

3D mode: Camera

Scan resolution: 0.1m

2. Mount Smartphone

Place the smartphone on the mount on top of the detector. Enter Ground scan mode from the main menu.



3. Center the circle

Hold finger on the red running circle and align it with tip of a detector.

4. Inicialize position camera system

Move device slowly left and right

5. Balance the detector

Short press control button to balance the detector.

6. Start scanning

Start scan by short pressing the control button on the detector.

Once scanning is started you can slowly move detector in the area you would like to scan. To achive most accurate scan results it is also necessary to observe position indicator on the top of the screen as described in "position indicator" chapter. Its recommended to scan with a grid enabled (click a grid icon). Transperancy can be set with a slider on the right side of screen.

7. Stop scan

Scanning can be stopped at any time by short pressing the control button on the detector. After that, step away from the area and observe the scan with camera, save the scan and proceed with new one.



Position Indication

Notice: this mode is only available for GoldenEye & GoldenEye Plus detector models.

This function is used to improve accuracy of scan results

1. Settings

First navigate into Settings page and make sure that your setting are set as follows:

Phone position: Detector (user must place smartphone on handle is)

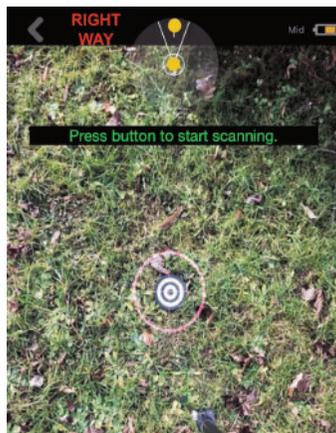
3D mode: Auto (user will start scan manually, but it will stop automatically)

Scan direction: Zig-zag (scan will be done in zig-zag direction)

Length: 2m (the length of single scan line will be 2m)

2. Scanning

Follow same procedure as described in chapter (Start using ADVANCE 3D ground scan mode), but make sure that you observe on screen position indicator while scanning. To achieve most accurate scan results try to keep green dots in the perfect straight line in the middle of the indicator as seen on image bellow.



Determine object depth

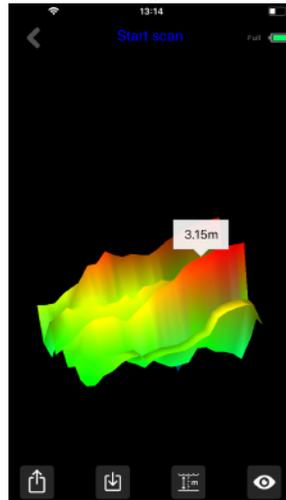
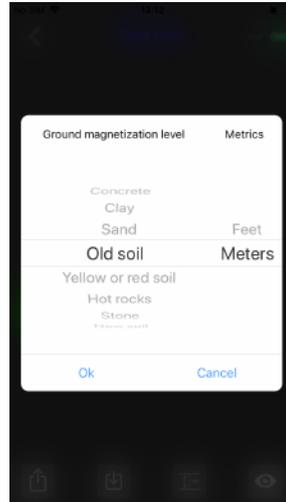
Once scanning is completed user can select a point on the 3D graph with finger touch. Estimated depth will be then calculated and displayed on the 3D graph.

By pressing depth icon user can enter depth calculation settings. From here user is able to select whether depth is calculated in meters or feet and also define ground magnetisation level that describes material type of ground/soil where the scan was done.

In the points on 3D ground scan where signal is too low or too high (saturated), application will display "N/A", indicating that it was not possible to estimate depth. In such case we suggest user to adjust sensitivity level in application settings and scan area again.

Important:

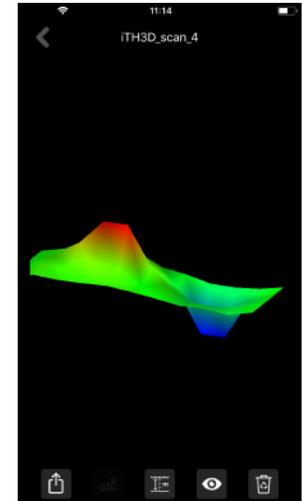
To get most accurate depth estimation user must make sure that ground magnetisation is properly defined / it best fits real environment conditions.



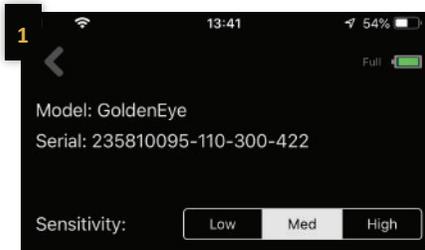
Observe stored scans

To observe stored scans Enter Open scans from the main menu and then click on the scan you would like to observe.

There is also possibility to observe the geographical location where the scan was made, but only if GPS location is enabled in Settings before scanning.

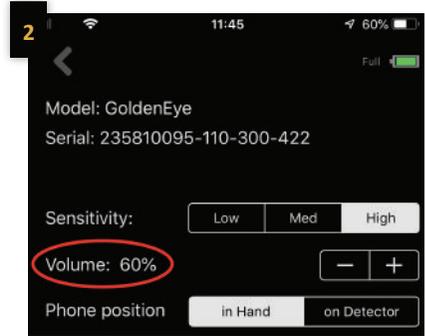


Settings



1. Sensitivity

Three levels of sensitivity are available. Low sensitivity is more suitable for larger objects or objects that are buried near the surface, while high sensitivity is a better choice for detecting smaller objects or objects that are buried deeper.



2. Volume

Volume can be set from 0-100% and only effects volume of the headphones output on the detector.

3. Phone position

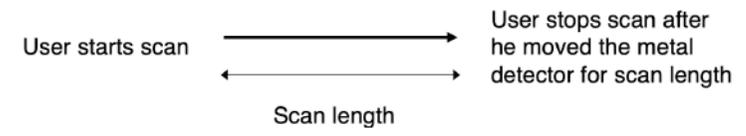
Default setting for phone position is in Hand and works for all detector models. On Detector setting can only be used with GoldenEye & GoldenEye Plus detector model.



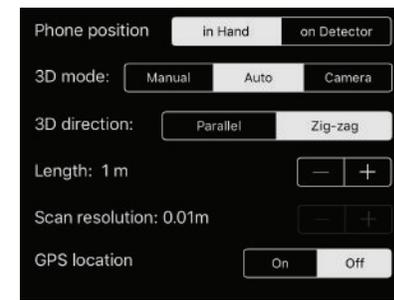
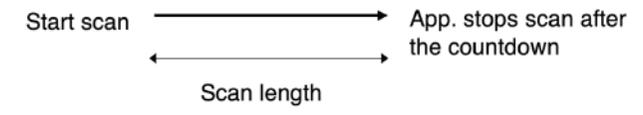
3D scan mode

3D scan mode defines how the scan of a new line is controlled.

In manual mode user is able to start and end stop the scan by short pressing on the control button (or no the label in the application).



In automatic mode user only starts the scan by short pressing on the control button, while application automatically stops the scan after certain period of time defined by scan length.



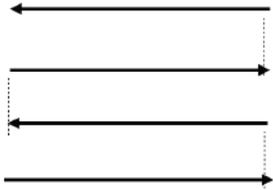
Camera mode is only available for GoldenEye & GoldenEye Plus detector model. In order to use this feature, smartphone must be placed on the handle that is mounted on detector and also Phone position must be set to "on Detector"

3D direction

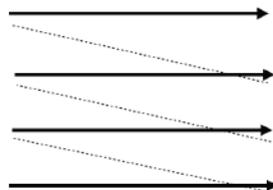
Parallel and Zig-zag scan modes define how the metal detector should be moved during scanning procedure.

In **zig-zag mode** user should start the scan and move detector from right to left direction. User must than start a new scan and move metal detector back to right direction.

In **parallel** mode user always starts scan on right and ends at left



Zig-zag scan mode



Parallel scan mode

Length setting defines the length of one scan line.

Scan resolution

Setting define scan resolution GoldenEye Plus only !

Detector battery status

Battery status can be seen in the right top corner of the screen and indicates detector battery status (0-100%). Notice that when detector battery charge will become too low, detector will automatically shut-down to prevent battery damage.

Important notice: for long battery life do not expose your detector to extreme low or high temperatures, particularly inside a car in full sun.



Technical specification

Technical specifications

dimensions (H x W x D):
 - 70 - 140cm x 3cm x 5cm (TreasureHunter,
 GoldenEye & GoldenEye Plus)
 - 60cm x 6cm (TreasureLight)
 weight: less than 200g
 operating time: 8h
 material: 90% carbon
 connectors (mini USB, headphone jack 3.5mm)
 data transfer (wireless BT 4.0, range: 10m)

Warranty

All our products have 2 year limited warranty.

The metal detector device is warranted against defects in materials and workmanship under normal use for one year from the date of purchase. Damage due to neglect, accidental damage or misuse of this product is not covered under this warranty. Decisions regarding abuse or misuse of the detector are made solely at the discretion of the manufacturer. Proof of Purchase is required to make a claim under this warranty. Liability under this Warranty is limited to replacing or repairing, at manufacturer choice. Warranty does not cover shipping costs.

Warranty for battery is 1 year.

According to FCC part 15.21 Changes or Modifications made to this device not expressly approved by the party responsible for compliance could void the users authority to operate this equipment.

NOTES:



CONTACT US:

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