



DEEPTeCH METAL DETECTORS
& ACCESORIES

DEEPTeCH®

инструкция по эксплуатации Vista RG 1000 V1/V2

металлоискатель
(на английском языке)



Design – Silviya Rashkova & Plamen Rashkov



CONGRADULATIONS ON PURCHASING YOUR VISTA RG1000!

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DeepTech is always interested in customer opinions. If you should have any questions or comments regarding your Vista RG1000 or any other DeepTech product, feel free to contact us directly or through your local Authorized DeepTech dealer.



DeepTech encourages all users to read the entire manual to ensure a complete understanding of all the features and functions that your Vista RG1000 offers.

Assembly

Before assembling your Vista RG1000 please check that the package includes the following parts:

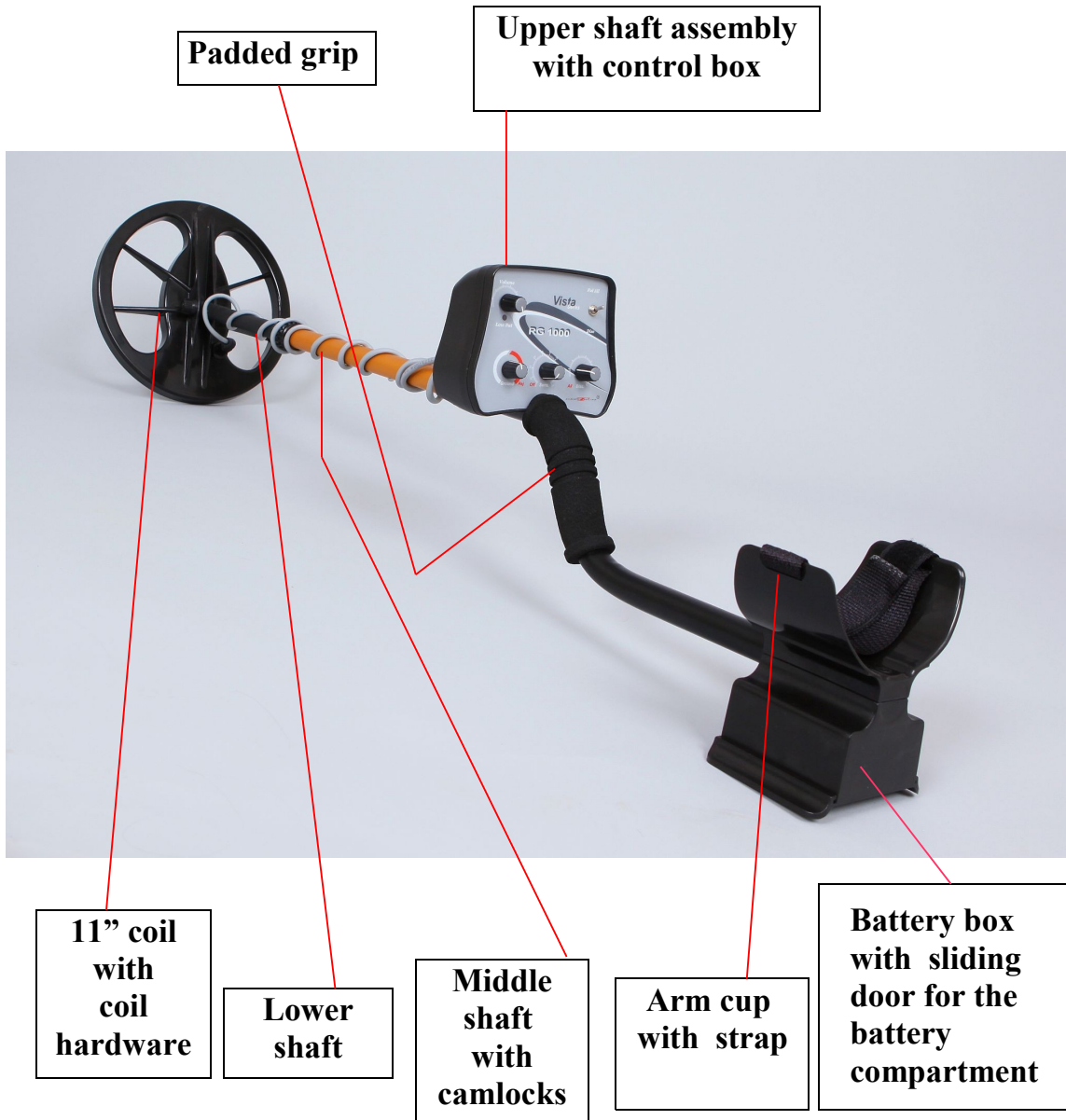
- **11" Wide scan coil (not to be submerged in water, the coil is water resistant only)**
- **Lower shaft**
- **Middle shaft with camlocks**
- **Upper shaft**
 - Fully assembled with:**
 - **Control box**
 - **Battery compartment with armrest and detector stand**
 - **Padded hand grip**
- **Coil hardware consisting of:**
 - **Rubber washers (2)**
 - **Plastic wing nut**
 - **Plastic bolt**
- **Velcro tabs (1)**
- **Eight 1,5V AA Alkaline Batteries**
- **DVD with the manual and product videos**
- **Limited Warranty Information (in the instruction manual)**
- **Instruction manual (you're reading it 😊)**

If any of the above listed items are missing, please contact us immediately.



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1.1 Connecting the coil to the lower shaft

- Place the two rubber washers into the holes on either side of the lower shaft.
- Slide the bottom of the lower shaft into the bracket on top of the coil. Make sure that the spring loaded pin in the lower shaft is pointed downwards.
- Insert the plastic bolt through the hole in the coil and the lower shaft.
- Fasten the bolt with the plastic wing nut. Be careful not to damage the thread of the bolt by over-tightening. The plastic wing nut may need to be loosened to adjust the coil.

1.2 Shaft assembly

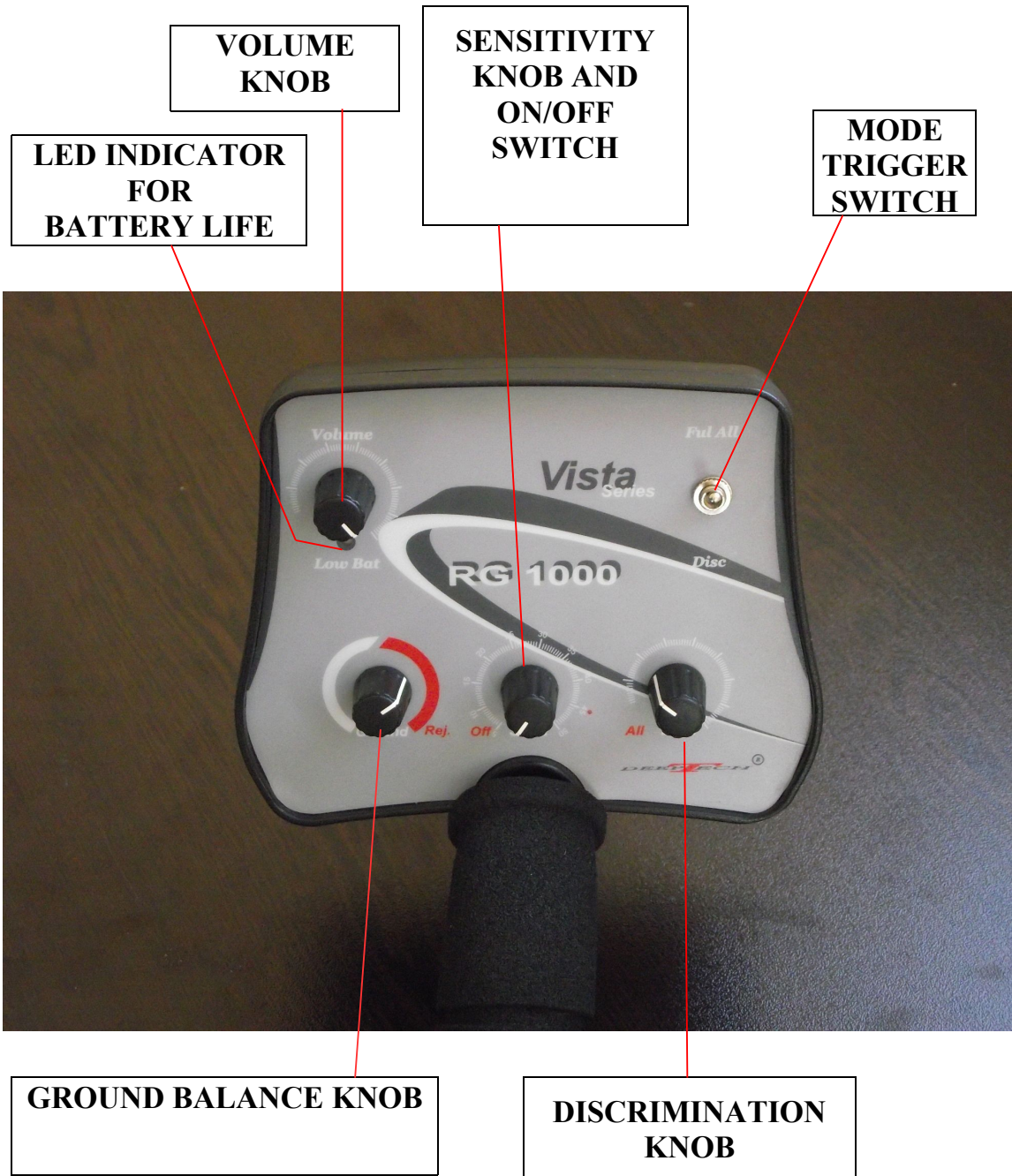
- Make sure that the camlocks of the middle shaft are loosened by rotating them counter-clockwise.
 - Push in the spring loaded pin on the lower shaft and slide it into the middle shaft until the pin reaches the desired adjustment hole. Tighten the camlock by rotating it clockwise until tight. Remember not to over tighten.
 - Attach the upper shaft assembly to the middle shaft by pushing the spring loaded pin in the upper shaft assembly and slide it into the middle shaft until the pin reaches the adjustment hole. Tighten the camlock by rotating it clockwise until tight. Remember not to over tighten.
- Remember, the detector should be set to length so that it is straight with your forearm and feels comfortable and light when you pick it up.

1.3 Coil cable

- Wind the coil cable around the complete shaft assembly enough times to take up any slack.
- Use the Velcro straps to keep the coil cable in place. We recommend that you use one strap on the lower shaft close to the coil and the other strap on the upper shaft assembly close to the control box.
- Carefully push the coil plug into the socket on the back of the control box. Firmly tighten the retaining ring by hand to hold it in place (do not over tighten).

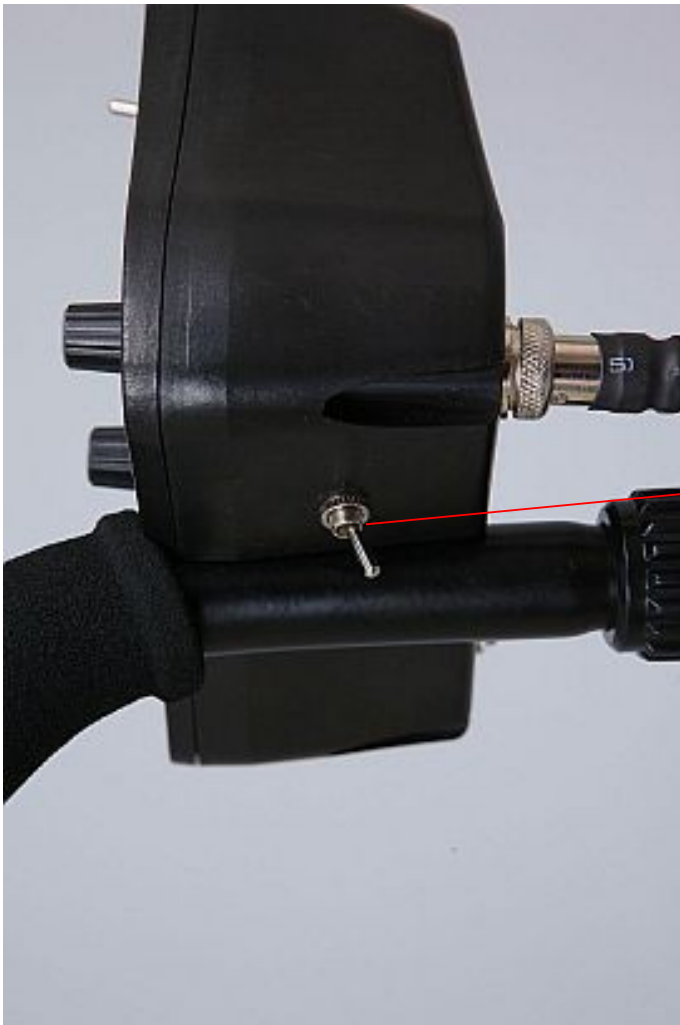
WARNING! The cable coming from the coil should not be wrapped too tightly in the coil area. Leave enough slack in the cable so you can adjust the coil when you detect on uneven ground. Failing to do this may result in damage to the coil cable or the coil itself.

Controls





Vista RG1000 V2 ONLY!



**SEARCHMODE TRIGGER:
2-TONE Mode
(only active with the mode
trigger on the face plate set to
FULL ALL)**

Rear view of the control box





2.1 Sensitivity/Power Switch

By turning this knob to the right, you will turn the detector on. After you turn the detector on, the further you turn this knob to the right, the higher your sensitivity setting will be.

WARNING! Never remove the coil cable from the control box while the Vista RG1000 is turned on. This may result in damage to the electronics.

Sensitivity is the level of response to a target. The Vista RG1000 is highly sensitive and has a wide adjustment range. The Vista RG1000 has an operating frequency of 12,5 kHz which is an ideal combination for target depth and small target sensitivity. It is very important to set the Sensitivity level correctly according to the detecting conditions.

A high Sensitivity setting enables the detection of smaller and deeper targets. When the Sensitivity is set to high, the Vista RG1000 may be affected by minerals in certain soils and signals from electrical appliances. You may need to decrease the Sensitivity to silence false signals or electrical interference. This will result in a more stable operation of the Vista RG1000.

Always choose the highest stable Sensitivity setting to ensure best performance. This is done by turning the Sensitivity knob to the right until the Vista RG1000 becomes unstable; then reduce the Sensitivity by one or two settings until it is stable.

2.2 Ground

The Ground knob is used to adjust the Vista RG1000 to the soil conditions and correct ground effects encountered during detecting. Mineralization and “Hot Rocks” may cause false signals. Ground balancing the Vista RG1000 reduces false signals from ground mineralization; more accurately rejects ferrous minerals or pottery containing iron oxides and enables targets to be heard correctly. If there are “Hot rocks”, these can be eliminated by turning the Ground knob to the right.

Learning how to properly Ground balance will give you an advantage over others especially if they are running there detectors in an auto ground balance mode.

2.3 Volume

The Volume knob lets you adjust the audio level of the speaker and headphones.



2.4 Discrimination

The Disc. knob is used to eliminate iron objects from detection. The Discrimination has a very fine adjustability range. The further the knob is turned to the right in the Disc. Mode (also known as the SILENT DISCRIMINATION MODE, the trigger on the face plate of the control box pulled downwards into the Disc. position), the bigger the size of the iron object will be that is to be discriminated.

Vista RG1000 V2 ONLY!

In the 2 Tone Mode (trigger on the bottom right side of the control box pushed furthest from you and the trigger on the face plate of the control box pushed up into the Full All position), the Disc. knob has a different function. It is then used to allow you to adjust the audio level of the low tone for iron targets.

2.5 Mode Trigger Switch (Face Plate of the Control Box)

This Trigger Switch allows you to choose your search mode. In the up position (Full All) you will be in the All Metal Mode. In this search mode, all targets will emit a high tone. Use the All Metal Mode (Trigger in the middle position) for maximum depth where soil conditions allow. In this position, you are detecting without any discrimination. All metal targets will sound off with a high tone. We recommended using this Mode only if you do not want any discrimination or where only good targets are anticipated

With the Trigger Switch in the down position (Disc.) you will be in the Disc Mode (also known as the SILENT DISCRIMINATION MODE). When working in the Disc. Mode (Silent Discrimination Mode), ferrous targets will be discriminated by using the Disc. knob. You will hear a high tone if the target is non-ferrous. If the target is ferrous there is no sound or, depending on the size and shape of the ferrous object, short „cracks“. The size of the ferrous object that is to be discriminated is increased as you turn the Disc. knob to the right

Vista RG1000 V2 ONLY!

With mode trigger switch pulled downwards in the Disc. Position and the trigger on the bottom right side of the control box pushed furthest from you, you will put the Vista RG1000 V2 in the 2 Tone Mode.



2.6 LED Battery Control

There is an indicator “Low Bat” on the face plate of the control box. If the indicator lights up and stays on, the batteries are almost totally exhausted. At this stage, stop detecting and replace the batteries. If the indicator blinks when a target is detected, the batteries are low. In this case, it is best to replace the batteries at this time. The average battery life is about 20-25 hours. Extremely weak batteries may be the reason for false signals. DeepTech strongly recommends to use 8 x 1,5 V AA Alkaline batteries. When using rechargeable batteries, we strongly recommend using batteries with more than 2000mA/H.

2.7 Headphone Jack ¼”

DeepTech recommends the use of headphones. When headphones are plugged in, the speaker is automatically deactivated.

There are many advantages to using headphones:

- Improves battery life.
- Prevents the sounds from annoying bystanders.
- Allows you to hear subtle changes in the sound and faint signals from deep targets more clearly.

WARNING! Set your headphone volume prior to wear. Ensure that the headphone volume does not reach an extremely loud level. This may increase the risk of hearing damage.



2.8 Mode Trigger: 2 Tone Mode (Vista RG1000 V2 ONLY!)

The Vista RG1000 V2 has a two position Mode trigger switch located on the bottom right side of the control box. This Switch is only active when trigger switch on the face plate is in the Full All Position.

- **2 Tone Mode**
 - **Low tone for ferrous objects and High tone for non-ferrous objects.**



**TWO TRIGGER SWITCH
FORWARD POSITION
(Trigger pushed furthest from you.)
2-TONE MODE**

In the 2 Tone Mode, all non-ferrous and ferrous targets which are accepted according to the Disc. knob setting (to the right of the Disc. setting), will give a high tone. All targets rejected by the Disc. knob setting (to the left of the Disc. setting) will give a low tone. You can adjust the size of ferrous target to be accepted by either turning the Disc. knob to the left (the smaller the size of the ferrous target in order to give a low tone) or by turning the Disc. knob to the right (the bigger the size of the ferrous target in order to give a high tone). Big ferrous targets will still give a high tone but are easily identified by the strong signal along with a slight low iron tone at the end of the target.

This Mode is highly effective in iron patches to clearly identify non-ferrous targets among ferrous targets and also to specifically search for certain ferrous targets.

- Remember, the Vista RG1000 V2 must be properly ground balanced for optimum performance.



How to Ground Balance

The following steps will explain how to Ground Balance the Vista RG1000. This is a very simple process that allows you to balance the Vista RG 1000 to all types of soil. This is very important in order to obtain maximum sensitivity to small targets and depth.

- Turn on the Vista RG1000 by turning the Sensitivity knob to the right
- Set the Sensitivity as described in section 2.1 **Controls/Sensitivity/Power Switch**
- Set the mode switch on the face plate to the FULL ALL position
- Find an area free of metal targets
- Turn the Ground knob all the way to the left
- Lower the coil about 2 cm (1 inch) above the ground
- Raise the coil up about 15 cm (6 inches)
- Repeat this process as you gradually turn the Ground knob to the right until there is no or very little noise as you lower and raise the coil
- Set your desired search mode and level of Discrimination if searching in the Disc. Mode

Your Vista RG1000 is now Ground Balanced. If the soil conditions change significantly (by moving from a plowed field into a wooded area for instance), you must ground balance your Vista RG1000 again as described above.

If you are receiving false signals from iron oxides in pottery or “Hot Rocks”, you can then Ground Balance the Vista RG1000 directly over these objects to eliminate signals from these unwanted targets.



Tips: How to set the Vista RG1000

These tips will help to shorten the “learning curve” of the Vista RG1000.

- If searching in the DISC. Mode for coins and other non-ferrous targets on highly mineralized ground that also contain many iron patches:
 - Ground Balance the Vista RG1000 as described in Section 3 **How to Ground Balance**
 - Set the DISC. knob between 10 and 12 o'clock
 - Set the Sensitivity knob at about 30 (you may set this value higher if you are not receiving too much “chatter”)
 - Sweep the detector a little slower (approximately 2 seconds from right to left)

 - Remember, fair amounts of iron in the ground paired with a low Disc. setting will result in “chatter”. This is avoided with the settings described above. If you feel the Vista RG1000 is still giving you too much “chatter”, reduce the Sensitivity instead of raising the level of Discrimination. If the level of Discrimination is raised under these conditions, more time will be needed to process the signals therefore increasing the detection distance between the discriminated iron object and the desired non-ferrous target in order for the desired target to be detected. With a little practice you will master these difficult conditions with ease.

*This may only happen in the DISC. Mode. Remember, the Vista RG1000 has a very fast recovery speed even with a high Discrimination setting and will outperform many other detectors.



- If searching on ground with “normal” mineralization and very few ferrous targets:
 - Ground Balance the Vista RG1000 as described in Section 3 **How to Ground Balance**
 - Set the Sensitivity as high as possible
 - Try to set the Discrimination as low as possible. With the discrimination setting at about 11 o'clock you may discriminate small silver coins (coins lighter than 1 gram).

- If searching in the 2 Tone Mode (Vista RG1000 V2 ONLY) for coins and other non-ferrous targets on highly mineralized ground that also contain many iron patches:
 - Ground Balance the Vista RG1000 as described in Section 3 **How to Ground Balance**
 - Set the Sensitivity knob at 30 (you may set this value higher if you are not receiving too much “chatter”)
 - Set the Discrimination to approximately 9-10 o'clock
 - Sweep the detector a little slower (approximately 2 seconds from right to left)

The 2 Tone Mode may be used in basically any situation. In this Mode, the Disc. knob has a different function. It is then used to allow you to adjust the audio level of the low tone for iron targets. For example, if the Discrimination is set to “0”, all ferrous targets will emit a high tone. The further you turn the Disc. knob to the right, the bigger the ferrous target must be in order to emit a high tone. If you are searching for non-ferrous targets, it is recommended that the Discrimination is set between 9-10 o'clock. In the 2 Tone Mode the Vista RG1000 is extremely fast and sensitive.



Troubleshooting

- The Vista RG1000 will not power on:
 - Insert Batteries
 - Replace Batteries
 - Batteries installed incorrectly
 - Battery pack not connected

- Excessive false signals:
 - Sensitivity too high
 - Incorrect Ground Balance
 - Coil cable loose or not connected

- The Vista RG1000 is producing only long tones:
 - Incorrect Ground Balance
 - Very high ground mineralization (repeat Ground Balance process on objects producing these tones)



6. Technical Specifications

- Operating
 - Frequency.....12,5kHz
 - Detector typ.....motion
 - Sensitivity control
 - Volume control
 - Manual Ground Balance
 - Modes of operation:
 - DISC. Mode
 - 2 Tone Mode (low tone for ferrous objects and high tone for non-ferrous objects)
 - Vista RG1000 V2 ONLY!
 - All Metal Mode
 - Recovery speed.....Very fast
 - Searchcoil
 - Type2D
 - Searchcoil Size.....11”
 - Cable Length (approx.).....53” (135 cm)
 - Audio Frequency(approx.).....780/390 Hz
 - Weight (with batteries).....(approx.)1400g.
 - Power Consumption.....43 mA
 - Batter Requirement – we strongly recommend to use 8 x 1,5 V AA Alkaline Batteries or rechargeable Batteries with more than 2000mA/h
 - Battery Life (typical).....20-25 hours
 - LED Low Battery alert
 - Operation Temperature Range.....10-40 C
 - Optimum Humidity..... 0 to 75% R.H.



7. General Advice

Metal Detecting is an activity, which like other leisure activities requires some guiding principles. The following recommendations will allow you to fully enjoy your hobby while respecting laws, environment and other people.

- Enquire about and abide by the laws in force of the country or the state before searching. It is your responsibility to know them and to abide by them.
- Always ask permission of the land owner where you want to search.
- Have respect for nature and the environment in which you are searching.
- Don't forget to fill all holes you dig and properly dispose of any trash.

WARNING! Avoid detecting in zones where battles took place during both World Wars. Report any suspect object you might discover to the authorities.

Joining a Metal Detecting Club in your area is an easy way of enjoying and sharing this wonderful hobby with others. This is also an easy start as how to properly abide to the ethics of Metal Detecting. Since this is only a guide, you are of course responsible for actions on any property you decide to detect. Always leave the area neat and clean.

We would like to thank you again for purchasing a DeepTech product.

Should you have further inquiries, feel free to contact us via E-mail, fax or phone. We appreciate any comments or suggestions. Leaving feedback and suggestions will help to improve our products, if necessary, for everyone to enjoy.



8. Limited Warranty Information

- This detector is for outdoor use only. Many household appliances emit electromagnetic energy which can interfere with the detector.
- Use only Alkaline Batteries.
- Use only stereo Headphones.
- Do not store the unit in excessive heat or cold.
- Keep the control box away from water.
- Be careful with the coil cable.
- DeepTech warrants your consumer or industrial product against defects in material or workmanship for a period of two years on the control box and one year for the search coils from the date of purchase. This warranty is not transferable.
- Any alternation of the electronic circuit by an unauthorised person will void the warranty.
- This warranty does not cover damage due to a fall, shock or accident, deteriorations due to abnormal use or cable breakage of the search coils or of one of its conductors.
complete with proof of purchase and a written explanation describing fault.
- DeepTech reserves the right to change the design or specifications of its detectors without notice.

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Notes



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