

Quest
Pro

deteknix®



THE DETEKNIX PROMISE

Your new Quest detector isn't just simple to use, it's also performs great. And so do the Deteknix brand Xpointer and "D by deteknix" accessories we've designed for it. The Xpointer and other accessories work together to bring better treasure hunting experience for you.

WELCOME

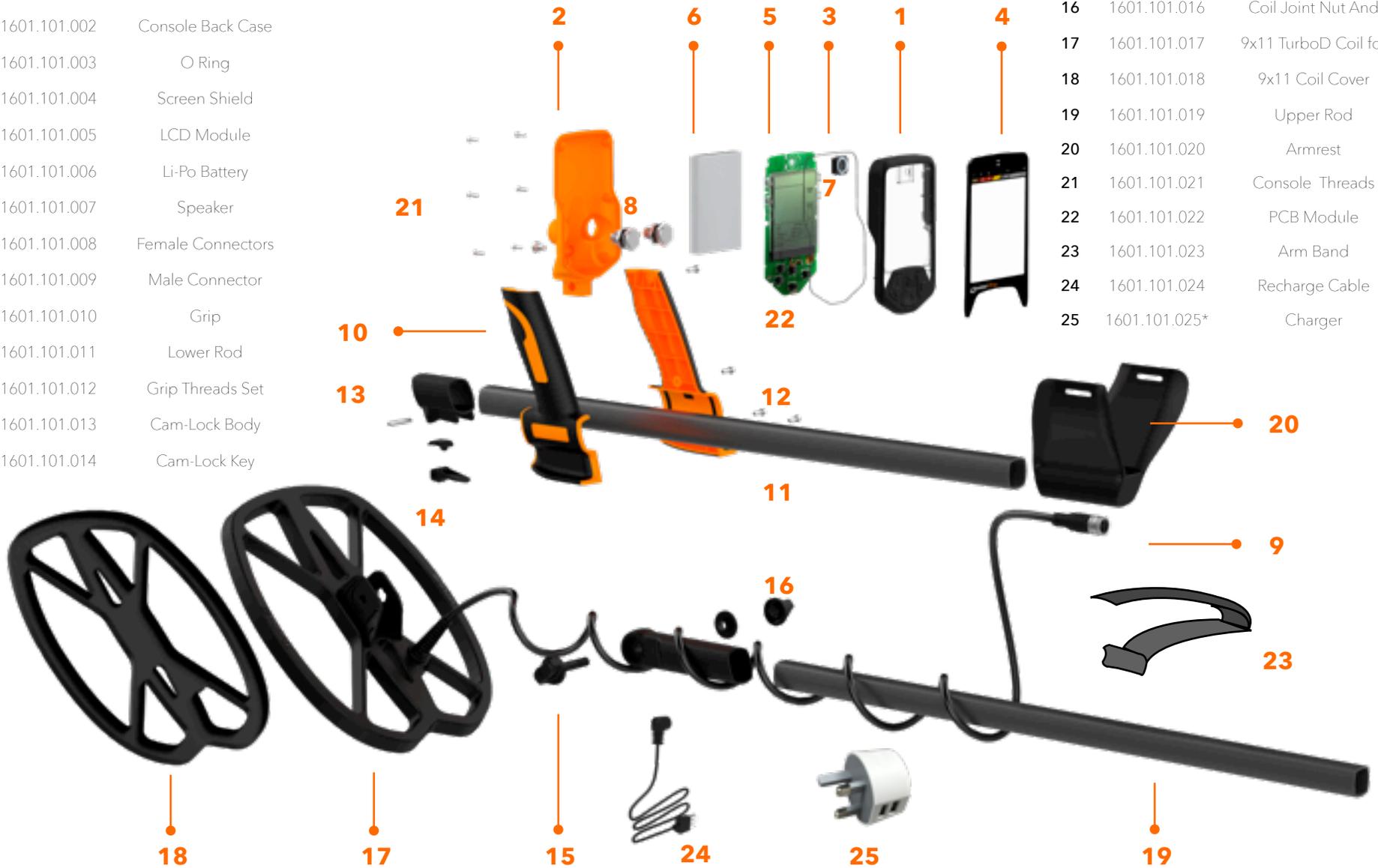
Thank you for choosing Quest, the all terrain metal detector. No matter if you are going to search for historic relics in the forest, or jewelry on the beach, Quest will be your best choice under any weather condition. It features wireless audio transfer function and built-in Li battery power supply to bring you more comfort and efficiency while detecting.

A special thanks to all metal detecting enthusiasts who entered the QUEST's naming competition.

COMPONENTS

PART NO.	NAME
1	1601.101.001 Console Upper Case
2	1601.101.002 Console Back Case
3	1601.101.003 O Ring
4	1601.101.004 Screen Shield
5	1601.101.005 LCD Module
6	1601.101.006 Li-Po Battery
7	1601.101.007 Speaker
8	1601.101.008 Female Connectors
9	1601.101.009 Male Connector
10	1601.101.010 Grip
11	1601.101.011 Lower Rod
12	1601.101.012 Grip Threads Set
13	1601.101.013 Cam-Lock Body
14	1601.101.014 Cam-Lock Key

PART NO.	NAME
15	1601.101.015 Coil Joint Bolt
16	1601.101.016 Coil Joint Nut And
17	1601.101.017 9x11 TurboD Coil for
18	1601.101.018 9x11 Coil Cover
19	1601.101.019 Upper Rod
20	1601.101.020 Armrest
21	1601.101.021 Console Threads
22	1601.101.022 PCB Module
23	1601.101.023 Arm Band
24	1601.101.024 Recharge Cable
25	1601.101.025* Charger



SPECIFICATIONS

TECHNICIAN DATA

WORKING METHOD	13kHz VLF (Very Low Frequency) Induction Balance
STRUCTURE	Fast Release Cam-lock 2 Sections Straight Rods Extendable From 80CM(2'8") to 130CM(4'4")
BATTERY TYPE	Built-in 2000mAh Li-Po Battery
DETECTION COIL	9x11"(22.5x28cm) Wide Scan TurboD Waterproof Coil
PROGRAMS	5 Pre-set Searching Programs
AUDIO OUTPUT	Built-in Speaker, Wireless/Wire* Headphone
LCD DISPLAY	60X70mm With Back Light
SEARCH MODES	All Metal, Discrimination
TONES	6 Tones Selectable
WEIGHT	3 pounds or 1350 grams
BATTERY LIFE	Up to 20Hrs on Wireless, 30 Hrs on Speaker
TEMP RANGE	Operating Ambient Temperature: 32° to 95° F (0° to 35° C) Non-operating Temperature: -4° to 113° F (-20° to 45° C)
HANDLE	TPU Material Surface, Adjustable Position
ARMREST CUP	Made of Robust PP Material, Ergonomic Design
GROUND BALANCE	Automatic or Manually
METAL ID	99 Metal I.D. for Target Identification

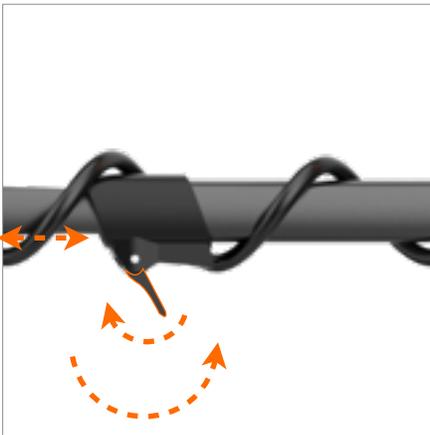


ASSEMBLE



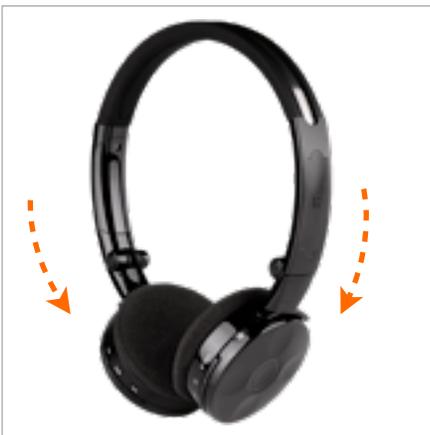
ADJUST HANDLE POSITION

Use a phillips screwdriver to loosen the three screws of the handle until it start to slide. Adjust the handle forward or backward until your arm fits comfortably in the cup.



ADJUST ROD LENGTH

Pull the cam-lock paddle out and extend or collapse the lower rod to a proper length. Push the cam-lock paddle back to the close position.



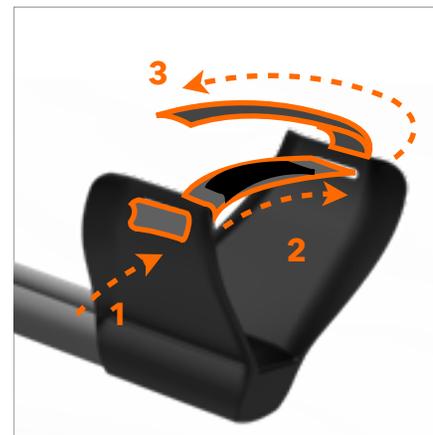
UNFOLD HEADPHONE

Unfold the headphone pad. Select the appropriate lock-in position on both sides of the headband. The pads will adjust the angle automatically according to your head size.



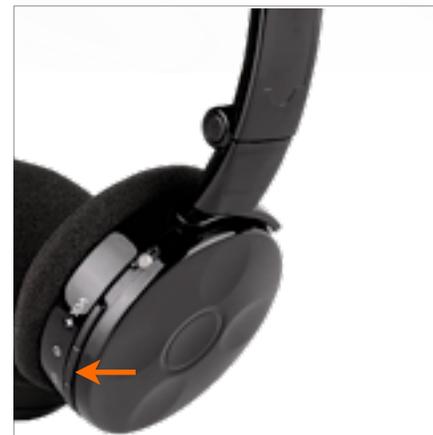
ADJUST COIL ANGLE

Insert the threaded bolt through the hole of lower stem and search coil. Tighten the search coil and wing nut.



INSERT ARM BAND

Follow the steps of guide to insert the band into arm rest cup.



PAIR HEADPHONE

Press POWER for 1sec to power on. Place the headphone to within 10cm of the Quest, press the power button once. The LED indicator of the transmitter will change to steady condition.



A	Built-in Speaker	1	Signal Strength Metal ID
B	Wireless Headphone Switch	2	Ground Phase Level
C	Backlight Switch	3	Mineralization Gauge
D	Higher Volume	4	Battery & Volume Gauge
E	Lower Volume	5	Message Window
F	+/-	6	Menu Columns
G	Ground Balance	7	Metal ID
M	Menu Scroll	8	Metal ID Meter
P	Pinpointing		

Physical Buttons

- The built-in mini size speaker's volume(A) and headphones volume can be adjusted by press the volume control buttons(D,E). one click per level. keep pressing to change the level. the gauge on screen will change also with each press.
- To turn on wireless headphones, press button(B) on the quest once to turn on, press again to turn off. The symbol on the screen will flash if not paired with headphone, press power button on headphone set to power on and pair one time. The speaker will mute once wireless audio transferring function been activated(B) or wire headphone is connected. Once the quest and headphones are paired they stay paired.
- You can switch on the backlight(C) for low light condition. It will reduce the battery life slightly.
- M (M) button. Press the button once to power on, Press 1 second to power off, Once on use power button M to scroll through the menu, Use up and down arrows to scroll through each menu item.
- ▲▼ (F) buttons. Increase, decrease.
- ⚡ (G) for ground balancing. pump coil while pressing auto ground balancing button.
- 📍 (P) for pinpointing. Use to indicate exact position of buried target. start by holding coil away from target whilst holding pin point button in. Target will be indicated in the centre of the coil when the sound is greatest.

Menu

- Two digit (8) real-time metal I.D. readout, depth, programs selected and other data.
- Modes available. all metal(ALL METAL) or discrimination(DISC).
- Gain: increases or decreases detectors sensitivity.
- Threshold: or Hum Level, from -9 to +9 amplifies the signal ID filter.
- ID Filter: or discrimination level
- Manual G.C. Activates the Ground Balance adjustment to compensate for different types of soil.
- Audio Tone. Choice of 6.
- Frequency Shift: from F1 to F7
- Ground Phase (2) display the recent ground cancellation level
- Mineralization Gauge(3): ground mineralization level
- Battery gauge(4): 4 segments is full charged, 1 segment is low battery level with less than 30% power capacity.
- Volume gauge(4). 4 segment is maximum, empty is mute.
- Signal arrows(1): display the target metal I.D. and strength of the target signal. 3 arrows is maximum and close to the ground surface. 1 arrow is small size target or deep buried.
- Message window(5): Overload information or other indication.

AIR TESTING



Let's Warm Up

Air testing is a good way to become familiar with the detector by testing a range of metal objects. This exercise is a simple lesson on how the detector tells metal objects. Gather a collection of different metal objects, e.g. various coins, gold and silver jewelry, a nail, pull-tab, brass button and aluminium foil.

Take the detector outdoors, away from known electromagnetic fields or metal objects. Place the search coil on a flat non-metallic surface. Select DICS mode and maximize the scale. Lay objects in a line, sufficiently spaced apart to allow the coil to pass between the objects. Pass the coil across the objects one at a time, and observe the LCD and the sounds of the detector as it detects each object.

Reduce the DISC bar graph segments to middle position and wave low conductive metal in front of coil. Record the result of your air testing.

Note:

Never test the detector on a floor inside a building. Most buildings have metal of some kind in the floor, which might interfere with the objects you're testing or mask the signal completely.

Object	I.D. Readout
Iron, hot rock	10~20
Cigarette foil wrap	45~50
US Nickel (5 cent coin)	typically 58
Aluminum pull-tab	60~75
Gold or gold coin	55~85
Zinc penny	typically 78
Copper penny	typically 83
U.S. quarter (after 1970)	typically 85
US Silver Eagle \$1 coin	typically 91
Europe 10/20/50 cent	typically 82
1 Euro Coin	Typically 85
2 Euro Coin	typically 75

Note: The target indications are visual references. Many other types of metal can also be represented by a given target I.D.

Swing Smart

To hold the detector, place your arm through the armrest and strap. Grasp the handle of the detector and rest your forearm in the armrest.

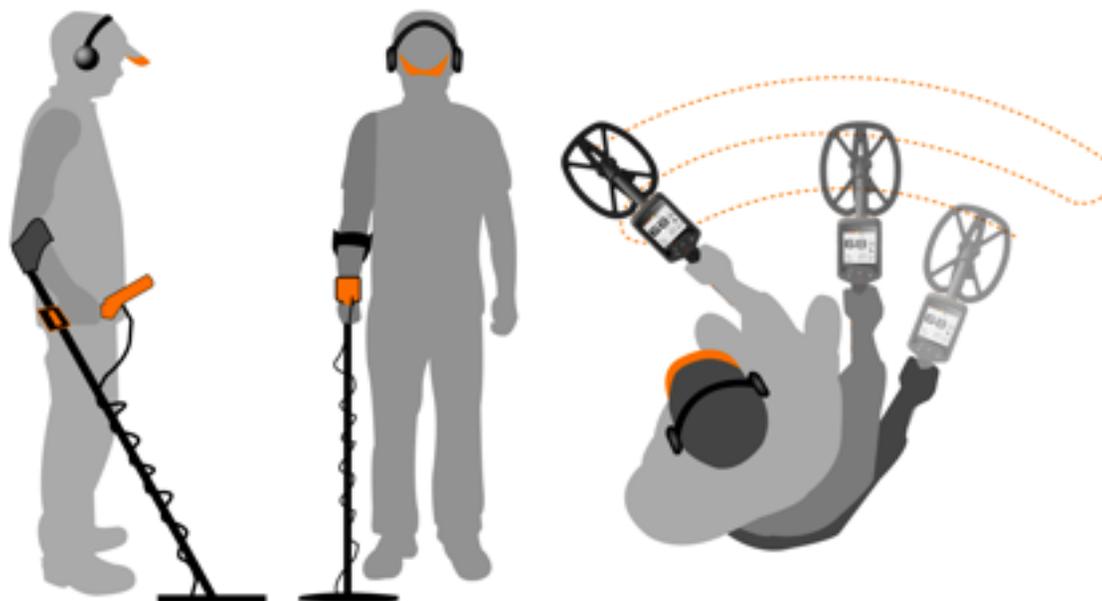
Your elbow should sit just above the top of the armrest. Lightly tighten the velcro strap and secure it around your arm. The correct position of armrest and length of shaft should allow you to swing the coil in front of your body without any uncomfortable stretching.

It is important to keep the coil close and parallel to the ground at all times. This will increase detection depth and response to small objects. Avoid excessive brushing of the coil on the ground, as this may result in false signals and inaccurate Target ID's.

A variation in coil height at the end of each swing may also cause confusing sounds and reduce detection depth. (Figure 1)

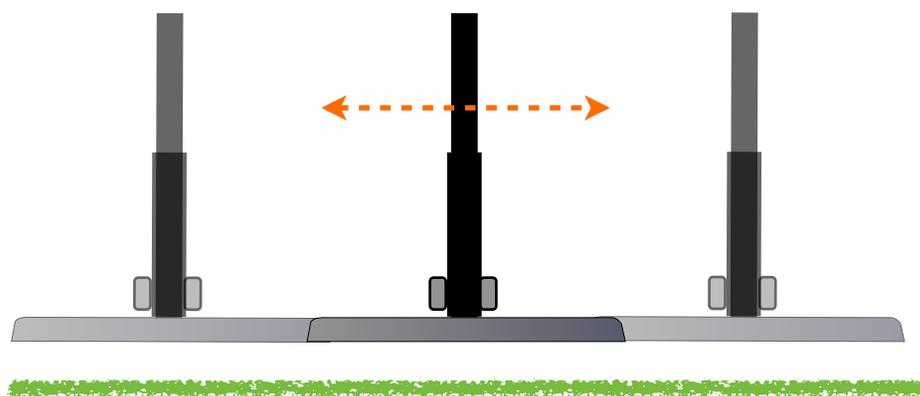
Once outside, practise sweeping the coil over the ground in a side-to-side motion, while walking forward slowly. Slightly overlap the previous sweep to ensure full ground coverage. An average sweep speed is three seconds from left to right to left. (Figure 2)

When detecting, it is important that you sweep the coil parallel to the ground, using wide movements, as close as possible to the surface (without actually touching it). Proximity to the ground will increase the likelihood of detecting a deep target and will enable the most discreet objects to be identified more easily. You are advised to avoid knocking the coil, as although it is designed to tolerate this kind of stress, careful treatment will prolong the life of the device and guarantee you better perception of targets. (Figure3)



(Figure 1)

(Figure 2)



(Figure 3)

Core Technicians You Need to Know

Gain or so called sensitivity, adjustable from 1 to 99, is often simplistically described as the setting which adjusts the device's power level. As its name indicates, it actually determines the device's sensitivity level. It reacts after receiving a signal via the receiver coil. In the presence of electrical interference, high ground mineralization, or variable ground mineralization, operation will usually be too noisy (wobbly and erratic sound from the speaker) if the sensitivity is set too high. At settings above 90, the internal circuit noise of the machine will probably be audible. The sensitivity level setting is largely a matter of personal preference. However, if you cannot hear at least some noise, the smallest or deepest objects will not be detected. The most commonly used sensitivity levels range from 60 to 90. It may be necessary to reduce the level if there is too much interference, as is often the case near overhead or buried power lines, fences, radio-relay stations, mobile telephones, computers, televisions, etc.

Threshold or hum level. It is adjustable from -9 to +9. For maximum ability to hear the weakest signals, adjust this background hum level high enough so that it is barely audible while the detector is in use in the field. To eliminate the weakest signals, adjust the hum level into the negative region, which will allow the machine to run silently if the sensitivity is not set too high.

Discrimination (0~80 adjustable) mode is used to eliminate from detection trash metal objects such as nails, aluminum foil, or pull-tabs. The search coil must be in motion for metal objects to be detected. Discrimination incurs some loss of sensitivity to small or deep objects.

The conductivity scale (0 to 99) for metal targets shown above the LCD screen will help you better understand the discrimination range and its limits, and see how it corresponds to the digital display of target conductivity on the controller. Increasing the discrimination value enables you to gradually reject any target whose conductivity is lower than the setting. For example, if you tune the discrimination level to 10, you will reject iron with a value of between 0 and 10. If you tune it to 40 you will also eliminate small pieces of aluminium foil whose conductivity is less than 40. If you wish to reject other rubbish with higher conductivity, such as pull tabs from aluminium drinks cans, lead shot or copper hunting cartridges (whose conductivity is 60-75), you must also be prepared to accept the elimination of certain good metals with similar conductivity.

Ground Balancing

All soils contain minerals. Signals from ground minerals are often tens or hundreds of times as strong as the signal from a buried metal object. The magnetism of iron minerals, found in nearly all soils, causes one type of interfering signal. Dissolved mineral salts, found in some soils, are electrically conductive, causing another type of interfering signal.

Ground Cancellation is the process by which the metal detector cancels the unwanted ground signals while leaving signals from buried metal objects intact. This is accomplished by establishing the detector's internal Ground Phase setting; this setting is calibrated to the soil and eliminates the ground minerals' signal.

When the detector is calibrated to the actual soil condition, the result will be deeper target detection, quieter operation, and more accurate target identification. This calibration, or Ground Cancellation, can be accomplished automatically with the detector's internal computer, by pushing the Trigger Switch forward, or manually in the All Metal menu.

The ground cancellation setting carries through into both All Metal and Discrimination modes. In Discrimination mode, the ground signal is generally inaudible unless the discrimination setting is 0.

Ground Phase

From 1 to 99 level, Ground Phase is a passive data reflect how much the machine react to the ground mineralization.

Mineralization Level

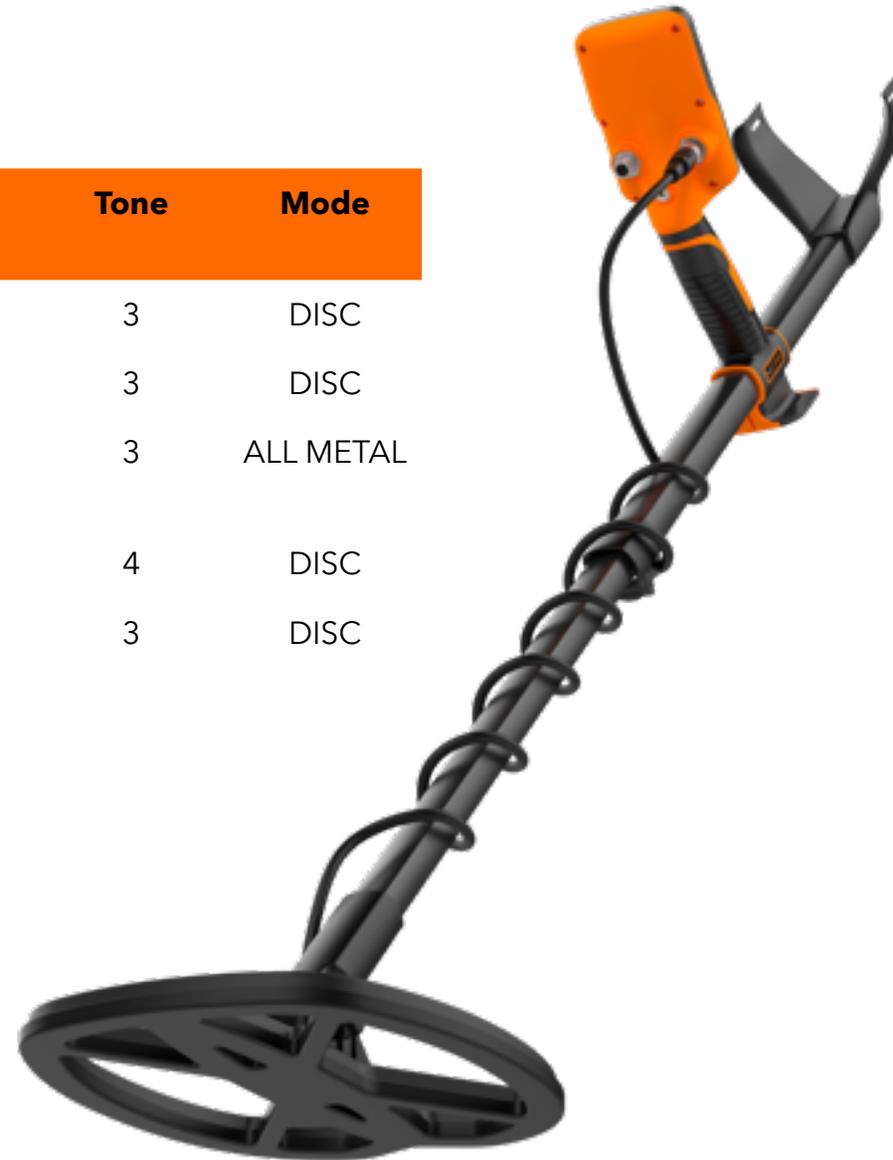
The round bar graph chart is the ground condition display. Magnetic mineralization material such as iron oxide, hot rocks and magnetite. At the seashore this may involved by black sand or salt water. You need to perform ground balancing by pump the coil to have the newest ground condition. You can also adjust the ground phase by the mineralization level. For high mineralization ground you may need to lower the threshold and/or gain level.

Frequency

It is the setting which enables to change the operating frequency of the device. It is used to eliminate the electromagnetic signals that the device receives from another detector which operates in the same frequency range nearby or from the surroundings. If too much noise is received when the search coil is lifted in the air, this may be caused by the surrounding electromagnetic signals or too much gain. In this case, first reduce the GAIN. If the noise is not eliminated, you can choose to shift the frequency. The device offers 5 different frequencies. Default setting is frequency 03.

Recommendation Programs

	Field	Gain	Threshold	ID Filter	Ground Phase	Tone	Mode
1	Relic Hunting	85	0	5	75	3	DISC
2	Coin Hunting	75	2	35	65	3	DISC
3	Gold Prospecting	65	0	0	85	3	ALL METAL
4	Dry Beach	85	3	10	85	4	DISC
5	Wet Beach	55	-3	28	25	3	DISC

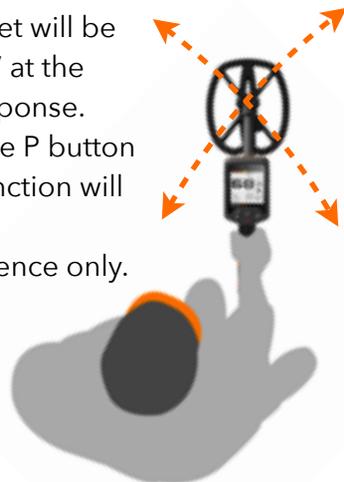


Pinpointing & Depth Reading

1. When the detector detects a buried target, continue sweeping the search coil over the target in a narrowing side-to-side motion. You can press on Pinpoint button for non-motion mode to continuously responding.
2. Make a visual note of exact spot on the ground where the detector beeps. Stop the search coil directly over this point on the ground. Then move the search coil straight forward away from you and straight back towards you a couple of times.

Repeat steps 1~3 at a right angle to the original search line, Make a mark of "X" . The target will be directly below the "X" at the point of the beep response.

3. Once you press on the P button the depth reading function will be activated.
4. The depth is for reference only.

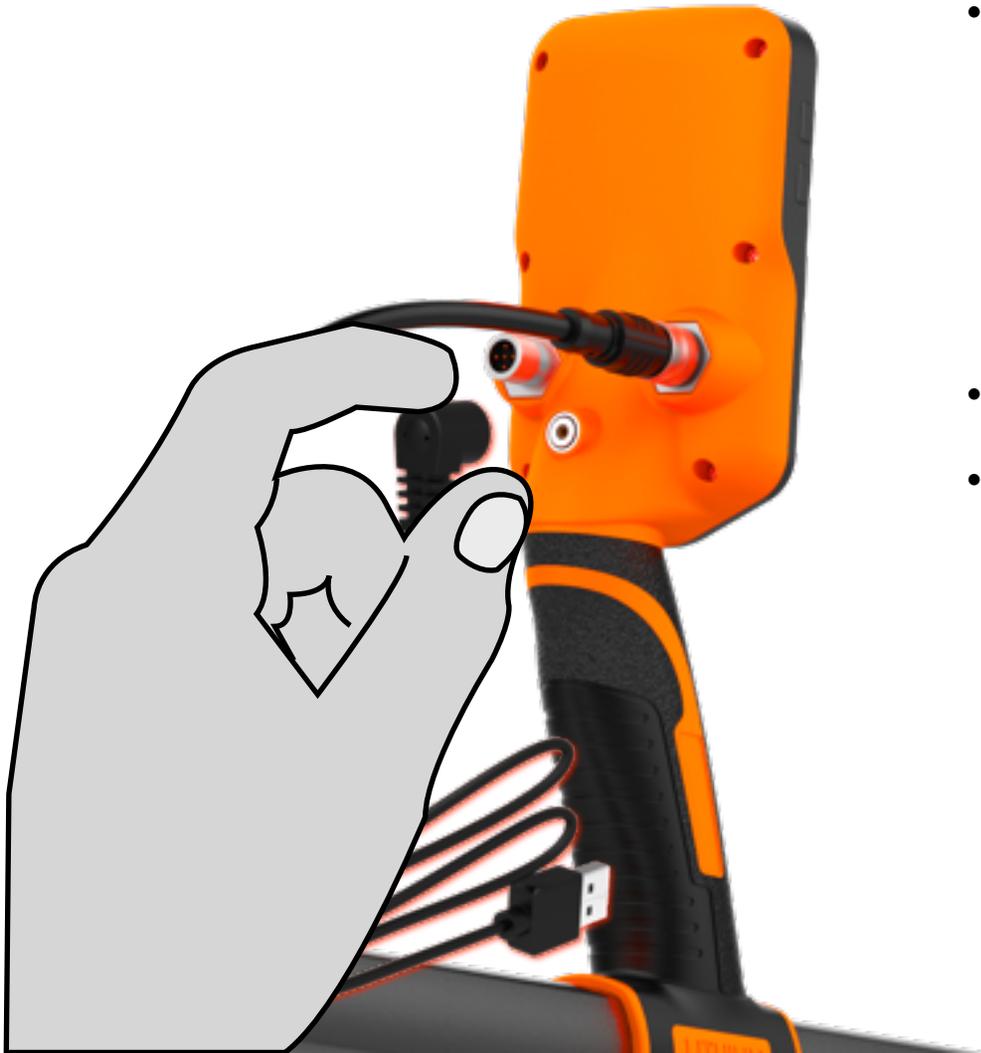


Digging

1. A **Diamond Digger(1503.101,102)** or **Sparta Spade(1601.101)** are good tools for recovering targets. Using our sharp tools, cut a neat portion of grass or soil and place it on a plastic sheet. This prevents the material being scattered around and allows the hole to be refilled quickly.
2. Check the hole for the target. Thanks to the light and balance weight, you can grab the Quest from the cam-lock position to check the target when you knee on the ground narrow the target's position.
3. We strongly recommend you to use a Xpointer to recover the target. It save your digging time and energy. You just need reach the pinpointer's tip into the hole or dirt to lock the target. If the pinpointer alarmed when you search in the hole, you may need to dig more dirt out.



RECHARGING



- The Quest is charged through a magnetic type USB charging cable. You just need take the charge head close to the recharge position. The magnet will pull them together automatically. The control box is powered by lithium polymer (Li-Po)batteries. These miniature, high-capacity batteries can be recharged quickly. You can recharge the Quest by smartphone wall charger(recommend) cigarett car USB charger, computer USB port or power bank.
- It will takes about 3 hours for a fully charge depend on the battery status.
- Since the charger cable is not a standard device, please keep it in safe place.



Your QUEST is designed to perform well in a wide range of ambient temperatures, with 62° to 72° F (16° to 22° C) as the ideal comfort zone. It's especially important to avoid exposing your device to ambient temperatures higher than 95° F (35° C), which can permanently damage battery capacity. That is, your battery won't power your device as long on a given charge. Charging the device in high ambient temperatures can damage it further. Even storing a battery in a hot environment can damage it irreversibly. When using your device in a very cold environment, you may notice a decrease in battery life, but this condition is temporary. Once the battery's temperature returns to its normal operating range, its performance will return to normal as well.

If you want to store your QUEST long term, two key factors will affect the overall health of your battery: the environmental temperature and the percentage of charge on the battery when it's powered down for storage. Therefore, we recommend the following:

- Do not fully charge or fully discharge your Quest's battery – charge it to around 50%. If you store a device when its battery is fully discharged, the battery could fall into a deep discharge state, which renders it incapable of holding a charge. Conversely, if you store it fully charged for an extended period of time, the battery may lose some capacity, leading to shorter battery life.
- Power down the device to avoid additional battery use.
- Place your device in a cool, moisture-free environment that's less than 90° F (32° C).
- If you plan to store your QUEST for longer than six months, charge it to 50% every six months.

Depending on how long you store your device, it may be in a low-battery state when you remove it from long-term storage. After it's removed from storage, it may require 20 minutes of charging with the original adapter before you can use it.

Detecting Activity Regulation

- Ensure you are informed of current legislation relating to discovery of treasure in order to abide by the law.
- Declare any fortuitous archaeological discoveries to the local authorities (town hall) of the discovery site within 48 hours.
- Before prospecting on a site, obtain permission from its owner(s) or guardian(s).
- Respect the natural environment in which you are prospecting and any other places to which you need access.
- Systematically back- fill any holes you make so as to leave a site exactly how you found it.
- Keep any rubbish you found in order to dispose of it in a dustbin.
- Avoid detecting in areas where battles are known to have taken place during wartime.
Exercise extreme caution with any suspect object resembling munitions, grenades, mines, shells, bombs, etc. and notify the relevant authorities (police, local authorities, etc.) of any such object you found.
- Remember that you are an ambassador for metal detecting and it is important that you convey a positive image!

Detector Caring

- Do not store your device for long periods with discharged batteries.
- Do not expose your detector to extreme temperatures, particularly inside a car in hot summer time.
- Do not expose your detector to the sun or freezing outdoor when it is not being used.
- When you switch on the detector ensure that the coil is not near any metal objects.
- Use the storage soft case that is supplied with the headphones and never leave them at the bottom of a bag without protection.
- Do not use solvents or alcohol to clean the detector. It will destroy the sealing protection. Soapy water is sufficient.
- Depending on how you use your detector, it may be advisable to clean its elements regularly. A damp cloth can be used to clean the parts (headphones and controller).
- After use, remove any dirt from the stem's locking mechanisms.

CAUSES	SOLUTIONS
Sensitivity is too high	Set it lower
You are in a zone with a lot of interference (high-voltage power lines, electric transformer, electric fence).	Lower the sensitivity change frequency/ frequency shift or move to a different zone.
You are close to other working metal detectors.	Change or shift the frequency or move further away.
You switched on the detector with the coil near a metal surface or near the stem's aluminium tube (in the folded-up position).	Switch it on , then on again with the coil in the air and the stem fully deployed, away from any sources of metal or ground
The battery is discharged.	Recharge it.
The ground is heavily infested with iron and other metals.	Set lower sensitivity and /or lower threshold. Find a less infested place.

CAUSES	SOLUTIONS
No audio from laudspeaker	Confirm the wireless function is not activated.
Wireless Headphone do not output sound	Make sure the wireless function been switched on. Or, Pair headphone and Quest again
Just gives false alarm and do not react to any metal object.	Make sure the connector is complete
No reaction to metal object even false alarm.	Make sure the coil cable is connected and tight firmly on the back of controller.
Can no ground balance	Change a place with no metal presence.
The headphone loss connection with Quest	It's time to recharge the headphone.

ACCESSORIES



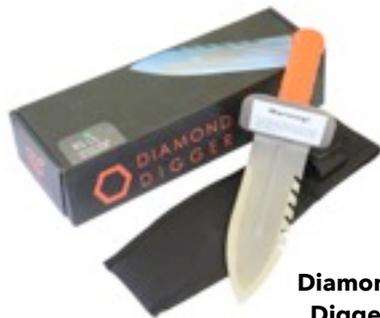
DLP Drop-Leg Pouch



Deteknix Carry Bag



5.5x8.5 Coil



Diamond Digger



premium
metal detector
accessories

Xpointers



Deteknix Hat



Camo Pouch



150ohm Headphone



The Quest metal detector is warranted against defects in materials and workmanship under normal use for TWO years from the date of purchase to the original owner.

This warranty does not cover:

- No registration on Deteknix official website in 5 days from purchase.
- Breakage of coil cable or connector.
- Breakage caused by falls, impacts or accidental damage
- Damage caused by abnormal use or resulting from non-compliance in the instructions.
- Leakage of battery caused by non compatible charger cable.
- Parts subject to normal wear and tear like : headphone ear pads, cases etc... (These parts must be replaced in case of wear and tear, in such a way that no damage will be caused to the device).
- 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 our option, the metal detector returned, shipping cost pre-paid to Deteknix Products. Shipping cost to Deteknix Products is the responsibility of the consumer.

To return your detector for service, please first contact Deteknix Care for a Return Authorization Number (RAN). Reference the RAN on your package and return the detector within 15 days of calling to (United States customers only):

Deteknix Care

1211 Center Court Dr. Ste 103

Covina, CA U.S.A. 91724

Tel: +1 (626) 559 7742

info@deteknix.com

www.deteknix.com



Deteknix Inc

1211 Center Court Dr. Ste 103

Covina, CA U.S.A. 91724

Tel: +1 (626) 559 7742

info@deteknix.com

www.deteknix.com