INSTRUCTION MANUAL

Quest Q60 metal detector

QUEST

METAL DETECTORS

CONTENTS

1. Scope of delivery

Congratulations on your purchase of the Quest Q60!

In the package you will find:

1. Quest Q60 metal detector
2. 33 x 23 cm (13" x 9") Turbo DD BeastX search coil
3. Coil cover (already attached to the coil)
4. Quest WireFree Pro headphones
5. Magnetic charging cable
6. WRX Receiver
7. 2x Micro-USB charging cable
8. 3.5 mm/6.35 mm audio cable
9. Manual
10. 2 year warranty

2. Technical specifications

Search frequencies	5kHz, 14 kHz and 21 kHz
Type of metal detector	Digital
Number of search modes	7 modes: Park Field Wet sand Saltwater Gold 1 Gold 2 Deep
Search coil	33 x 23 cm (13" x 9") BeastX search coil
Weight	1.15 kg
Extendable shaft length	From 80 to 130 cm extendable
Control unit (electronics) waterproofness	5 m waterproof
Headphone jack	3 mm headphone jack
Type and number of batteries	4000 mAh Lithium-Polymer battery
Battery life	Approx. 30 h
Recovery speed	Very fast
Depth range small objects (e.g. 1 Euro coin)	40 cm
Operating temperature	0° to 35°C
Storage temperature	-20° to 45°C
Wireless module	Yes

Features:

• Depth range visible (4 levels)	• Ground balance
• Sensitivity setting	• Pinpoint function
• Target identifictaion (2, 3 or 4 tones)	• Conductivity display (99 metal I.D. level)
• Volume regulation	• LED display backlight (2 levels)
• Vibration	• Online software update
• Frequency button	• Threshhold (Audio)
• Battery life indicator (4 levels)	• Tonebreak

3. Assembly

1

1. Put the end of the shaft with the hole into the search coil like shown in 1.

2. Insert the screw into the hole as shown in 2 and secure by tightening the nut.

2

3

Open the camlock on the middle shaft and insert the lower shaft with the search coil, as shown in 3. When the shaft is in the right position, close the camlock.

3. Assembly

4

Wind the search coil cable on the shaft without stretching too much. Then, plug the connector to the search coil input socket on the control unit, as shown in 4, and secure it by rotating the ring.

You can adjust the distance between armrest and control unit with the camlock attached to the control unit.

4. Explanation of terms

Ground balancing:

In the ground there are several small minerals with metals attached to them. To prevent that your detector permanently reacts to those minerals, it can perform ground balancing. The detector filters the magnetic field of the ground and is able to ignore it. With a Ground Tracking feature the detector is able to automatically adjust its filtration of the mineralization in the respective ground.

Frequency:

The frequency of the detector determines how many electronic waves it sends into the ground per second. If the frequency is low, you are able to find bigger targets deeper in the ground. If it's high, the detector will recognize smaller objects nearer to the surface. With some detectors, like the Quest Q60, you are able to switch between multiple frequencies.

Sensitivity:

Sensitivity and depth setting go hand in hand. The higher the sensitivity is set on your detector, the deeper it searches and the more sensitive it becomes in terms of ground disturbances and electromagnetic interferences. The lower the sensitivity, the less disturbances you will experience, at the expense of your depth performance.

Discrimination:

Depending on how conductive the metal your detector find is, it will show a metal ID number from 1 to 99. Via discrimination you can for example let the detector ignore all objects that score 1 to 40 to avoid finding lots of nails or other iron objects.

Notch:

The notch feature is very similiar to discrimination, but is more flexible. You can pick a certain metal ID-segment and let the detector ignore objects in that segment or, opposingly, only search for objects in that segment.
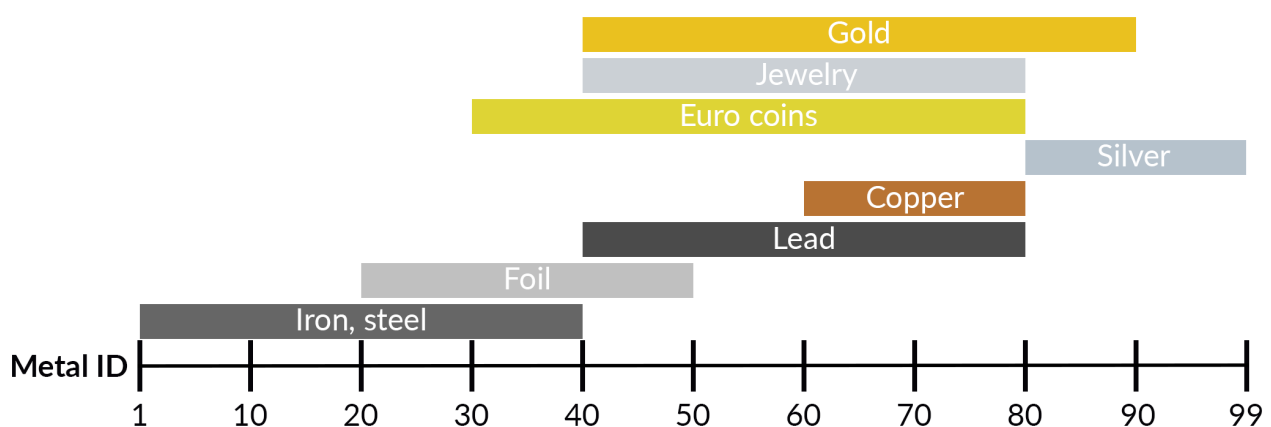
Pinpointing:

Pinpointing means to determine the position of the found object as exactly as possible. There are detectors with a built-in pinpointing feature and also external pinpointers. You can use your detector's pinpointing feature to locate the target more accurately, so it's enough to dig a small hole. With a loose pinpointer you can find the object inside the hole faster.

4. Explanation of terms

Target ID (object identification):

The Target ID Arc shows segments, each one representing several metal IDs. The number in the middle shows the score of the currently detected object based on its conductivity. The exact number varies depending on the characteristics of the ground, the size of the object, how deep it is buried, etc. Additionally, the tone of the detector when identifying a target varies in pitch depending on the target ID. This overview will give you a rough idea which metal will score which metal ID number:

Metal ID									
1	10	20	30	40	50	60	70	80	90	99

Gold · Jewelry · Euro coins · Silver · Copper · Lead · Foil · Iron, steel

Threshold:

With a Threshold function you will hear a constant audio signal in the background. This is intended to help you hear the response from very small targets that is produced by a piece of gold or other metallic specimen. Depending on the type of headphones you are using, you may need to adjust the level of the threshold sound you hear. You want to adjust it so that you can barely hear it yet still able to hear slight changes indicating a very small or deep target has been detected.

Tones/Tone Spacing/Fesen:

While detecting, different targets will lead to different tones. Tone Spacing determines at which target ID the detector starts to make a different tone. The point between two different tones is called a tone break point. With Fesen you can setup the volume of the tones when iron is detected.

Frequency shift:

Detectors and other electrical sources can interfere with your detector. With operating a frequency shift you can change the frequency of your detector to minimize the interference.

5. Interface

Ground Tracking activated

Target ID score

Pinpointing activated

Target ID arc

Audio/vibration on

Headphones connected

Battery life indicator

LCD backlight on

Sensitivity indicator

Depth indicator

Selected search mode

Search modes

Discrimination

Frequency

Threshold

Fesen

Tones

Tone space

6. Buttons

Volume up

Volume down

Press again at lowest volume for vibration

Sensitivity regulation

Up/down in settings

Short press: Power on
Hold: Power off

Press when powered on:
Enter settings

Hold for Pinpointing function.
Release to deactivate it.

WireFree on/off

Backlight regulation:
Off
Level 1
Level 2

Select or exclude target ID blocks in discrimination setting

Hold and press ▲/▼ to switch search modes

Hold and pump the coil for automatic Ground Balancing

Press once and ▲/▼ for manual Ground Balancing

7. Search modes

You can select the search modes by holding the lower ■-button and switching through with the ▲/▼-buttons.

PARK MODE. Discriminate items with target ID under 5 by default, with optimized recovery speed for high-trash areas such as parks.

FIELD MODE. Discriminate items with target ID under 8 by default. Good for open fields with lower electromagnetic interferences.

1. **WET SAND.** Optimized for dry or wet sand beach.
2. **SALTWATER.** Designed for saltwater conditions (highly mineralized ground).

1. **GOLD 1.** One tone for gold prospecting with adjustable threshold.
2. **GOLD 2.** Two tones with adjustable threshold and tone space.

1. **DEEP MODE.** Discriminate items with target ID under 10 by default. With lower recovery speed for more depth.

8. Settings

Press the ⚙-button multiple times to navigate through the different settings. Depending on the active search mode, some settings are unavailable.

DISCRIMINATION. Navigate along the target ID arc with the ▲/▼-buttons and activate/deactivate the current ID with the upper ▮-button.

THRESHOLD. Regulate the volume of the background sound with the ▲/▼-buttons.

TONES. Switch between tone modes with the ▲/▼-buttons.
2 TONE. Iron produces a low tone, the rest produces a middletone;
3 TONE. Iron produces a low tone, nickel gold or copper produce a middle tone, silver produces a high tone;
4 TONE. Iron produces a low tone, the rest produce three tones.
PITCH. Produces a linear tone for all accepted targets which varies in pitch, based on the strength of the signal from the target.

TONE SPACE. Depending on how many tones are activated via TONES-Setting, you can switch through the tone break points with the ⚙-button and change them with the ▲/▼-buttons.

FESEN. You can setup the volume of iron tones from 0 to 5 with the ▲/▼-buttons. It is recommended to set the FESEN digit lower in trashy environments to discriminate unwanted items. If you don't want to miss some potential valuable items mixed with the iron signal alarm, please set it higher.

FREQUENCY. Switch through the different frequencies with the ▲/▼-buttons. With 5 kHz you will only be able to find big objects very deep in the ground and miss for example small jewelry nearer to the surface. With 21 kHz you will be able to find that small jewelry exceptionally well but aren't able to search very deep. The frequency is set to 14 kHz by default, which is optimized for most conditions and is ideal for most detectorists.

8. Settings

FREQUENCY SHIFT. Press the ⚙-button again in the Frequency-setting to get to the Frequency shift, then choose one of 5 different channels with the ▲/▼-buttons.

GROUND TRACKING. Press and hold the lower ■-button and press the ⚙-button to activate or deactivate the Ground Tracking function. The detector will calibrate to the ground automatically to reduce false signals caused by mineralization.
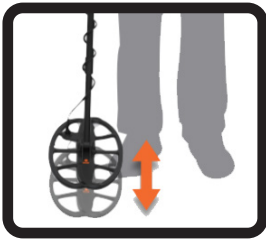
**GROUND BALANCING.** For automatic Ground Balancing, hold the lower ■-button and pump the coil up and down from about 20 cm down close to the ground, until you hear a confirmation sound. You can manually ground balance by using the ▲/▼-buttons after pressing the lower ■-button once.

RESET DETECTOR. When the detector is turned off, press and hold the ⚙-button until the display restarts to reset the detector to factory settings.

9. Operation

Please note: Before searching, check if a permit is needed to search at the respective location, and/or if you need permission of the owner.
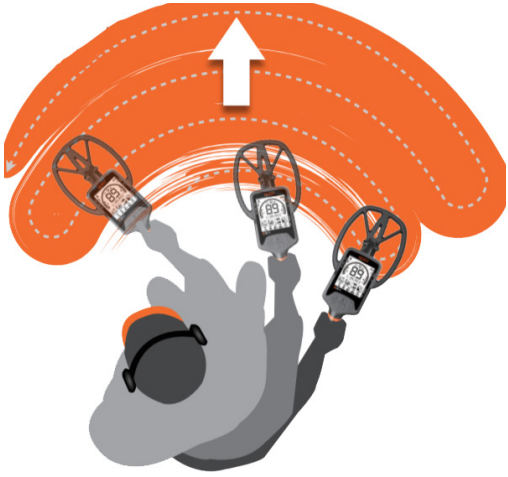
Detecting

For searching, move forward slowly and swing the coil approximately 3 cm above the ground from left to right as shown in the graphic on the left. Your detector will only scan for objects if the search coil is moving. Your swings should overlap each other to cover the whole ground. The coil should always stay at the same distance and parallel to the ground.
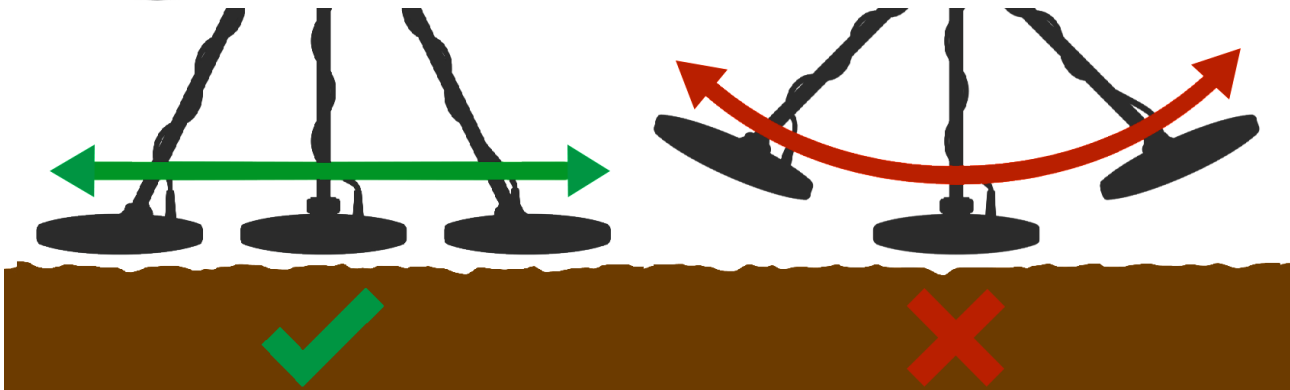
Underwater search

The Q60 is waterproof, so you can take it under water up to 5 meters. For underwater search, please note:
- If you are searching without the optionally available waterproof headphones, make sure that the headphone jack protection cap on the backside of the control unit is properly closed and activate the vibration by using the volume regulation.
- Switch to Saltwater mode, since saltwater is highly conductive and the detector would get to many signals otherwise.
- After underwater search, rinse the detector with clean water, then take off the handle from the rod and allow the inside of the handle to dry completely.

9. Operation
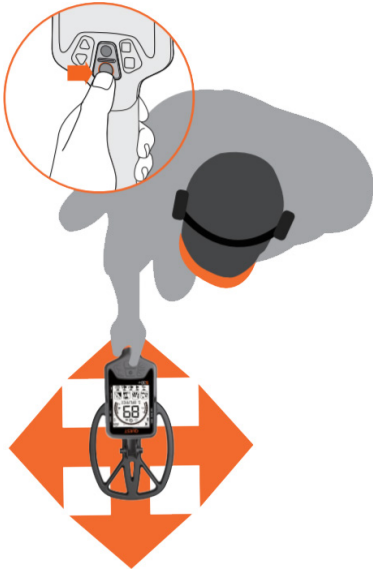
Pinpointing

When you found a promising signal while detecting, you can use the Pinpoint-function to determine the exact position of the object more accurate. To do so, move the coil to a place without a signal and start to press the Pinpoint-button. While holding it down, perform a cross motion above the target, as shown in the picture. The louder and more stable the sound is, the nearer the object is to the middle of the coil. The number on the display shows how many cm there are between the coil and the target.

Digging

When you have found an object and identified its position as exact as possible, dig a small hole around the target. If you have trouble finding it, a loose Pinpointer like the Quest XPointer is helpful. After you found the object, use your detector again to be sure that there is nothing left. At last, fill up the hole again to prevent other people or animals from hurting themselves.

Charging

6~8Hrs
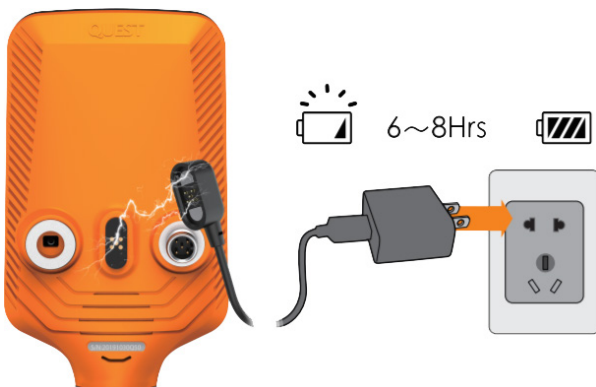
Connect the included magnetic charging cable with the magnetic charging port at the backside of the control unit. Plug the other end of the cable into a power plug and connect it to the power supply.

Connecting headphones

1. **WIRE HEADPHONES.** Remove the protection cap on the backside of the control unit and insert the 3.5 mm headphones cable.

2. **QUEST UNDERWATER HEADPHONES.** (optionally available) Remove the protection cap on the backside of the control unit and insert the 3.5 mm headphones cable by screwing it into the thread.

3. **QUEST WIREFREE HEADPHONES.** Turn on the Wirefree Headphones with the power button. Then activate the wireless function of the detector by pressing the upper button on the ride side of the control unit. When the WireFree symbol lights up constantly, the headphones are connected.

4. **USE WIRED HEADPHONES WIRELESS.** Connect your headphones to the WRX and turn it on by rotating the switch clockwise while the detector's wireless function is activated. Turn the WRX off and on until the WireFree symbol lights up constantly.

Insert headphone-plug here

Turn on by rotating the switch clockwise

Turn off by rotating counterclockwise

10. Maintenance

Please note:

- Do not twist the coil cable and connector to avoid wire damage.
- Do not store the device where prolonged exposure to extreme temperatures can occur to avoid device damage.
- Never use a hard or sharp object to operate the buttons to avoid damage.
- Avoid chemical cleaners, solvents, and insect repellents that can damage plastic components and finishes.
- Even small amounts of sweat or moisture can cause corrosion of the electrical contacts when connected to a charger.
- Secure the audio protection cap tightly (use a coin if necessary) to prevent damage to the audio port.
- Clean the surface of the detector everytime after you use it under water, saltwater or freshwater. Please take off the handle from rod and allow the inside of the handle to dry completely each time you return from underwater detecting.
- Pay attention to the sand when changing coils on the beach. If Sand gets into the connector, it will void the warranty.

Cleaning the detector:

- Before cleaning, turn off the device and disconnect it from power.
- Wipe the device using a soft, clean, lint-free cloth. Dampen the cloth with water or a mild detergent solution.
- Wipe it dry. After cleaning, allow the device to dry completely.

11. Troubleshooting

Issue	Solution
The detector doesn't start	Recharge the detector. If it still doesn't start, contact your dealer.
The detector doesn't make a sound	If the detector shows no conductance number in the middle, the coil might not be connected to the control unit. Check the cable between coil and control unit. If it just doesn't make a sound, check if the volume is set to zero or the wireless headphones-mode is activated.
The detector is very noisy	Perform a automatic or manual Ground Balancing, set the sensitivity lower or try it at another place with less interference.
False signals while detecting	Check if the coil cable is broken. If so, contact your dealer.
Overload alarm	Please turn to WET BEACH or SALT WATER MODE if you are detecting on the beach or high mineralized ground.

Contact your dealer if any other problems occur or the suggested solution doesn't work.

12. Service

Quest products are designed in California U.S.A. and produced in China by the manufacturer Quest Metal detectors Inc.

Quest products are distributed and available in many European countries. Go to www.quest-metaldetectors.eu to find your nearest dealer.

Quest Europe GmbH is located in Germany and is offering customer service/after sales and technical support for European customers.

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EU Declaration of Conformity
Hereby, Dongguan Quest Detection
Technology Co., Limited declares that
this radio equipment is in compliance
with directive 2014/53/EU. The full text
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