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› Aneken GC-1020 Professional Metal Detector User Manual

## Aneken GC-1020

# Aneken GC-1020 Professional Metal Detector User Manual

Model: GC-1020

## 1. INTRODUCTION

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Thank you for choosing the Aneken GC-1020 Professional Metal Detector. This device is engineered for high accuracy and ease of use, making it suitable for both beginners and experienced treasure hunters. With its advanced features, including multiple detection modes and a waterproof search coil, you can explore various terrains to find coins, jewelry, relics, and other valuable metals.

Please read this manual thoroughly before operating your metal detector to ensure proper assembly, operation, and maintenance. Keep this manual for future reference.

## 2. PACKAGE CONTENTS

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Before you begin, please verify that all items listed below are included in your package:

- 1x Aneken GC-1020 Professional Metal Detector
- 1x Folding Shovel
- 2x 9V Batteries
- 1x User Manual (this document)



Image 2.1: Contents of the Aneken GC-1020 Metal Detector package, including the detector, shovel, and batteries.

### 3. PRODUCT OVERVIEW AND COMPONENTS

Familiarize yourself with the main parts of your Aneken GC-1020 Metal Detector:



Image 3.1: Labeled diagram showing the search coil, locking collar, LCD display, fixing button, battery house, and padded armrest.

- **Search Coil:** The waterproof coil that detects metal objects.
- **Locking Collar:** Secures the stem at the desired length.
- **LCD Display:** Shows detection information, mode, sensitivity, and battery status.
- **Fixing Button:** Used to adjust and secure the angle of the search coil.
- **Battery House:** Compartment for the 9V batteries.
- **Padded Armrest:** Provides comfort and support during use.
- **Control Panel:** Houses the LCD display and control buttons.

## Control Panel Details

# Control panel

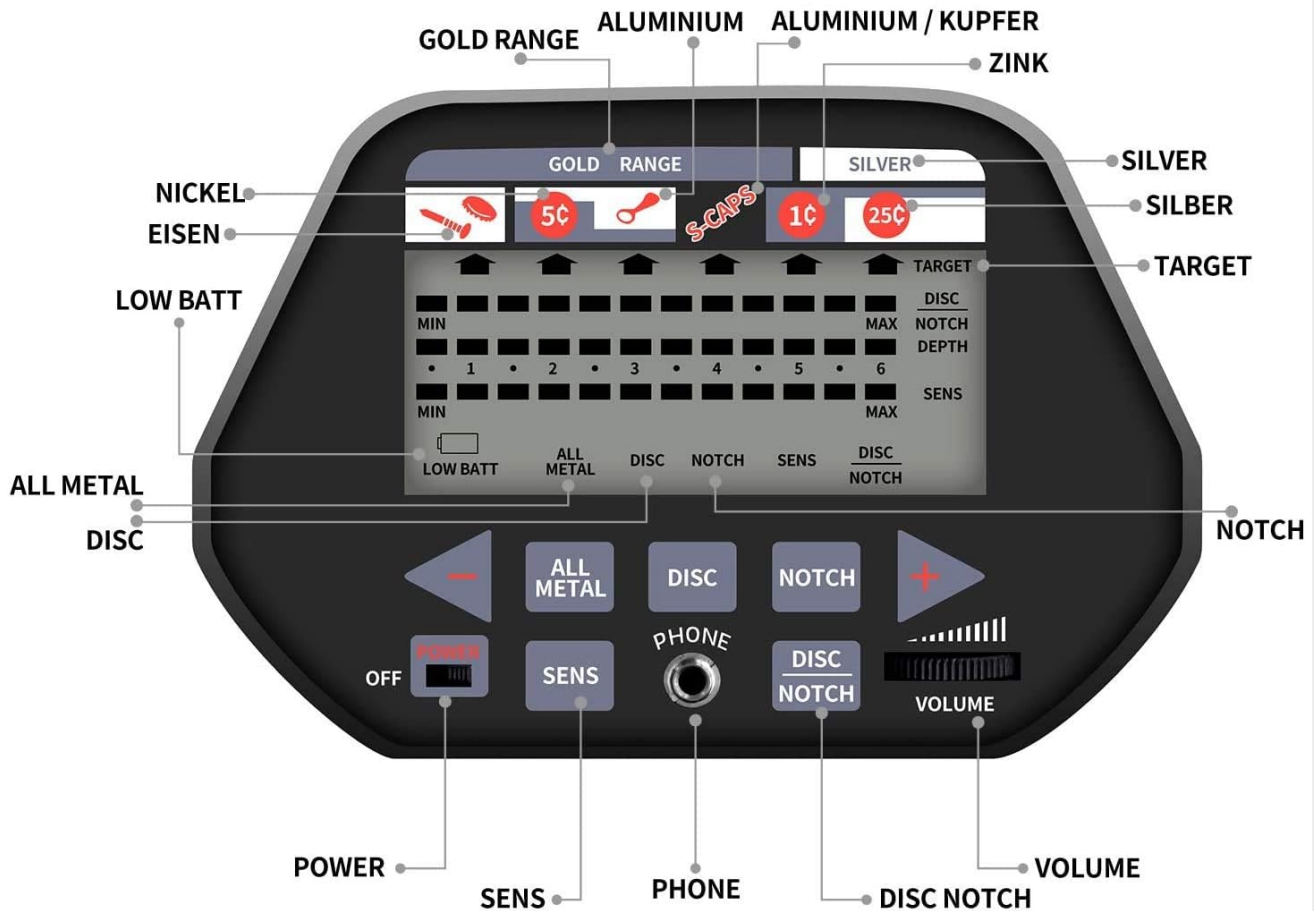


Image 3.2: Close-up of the control panel, indicating buttons for Power, Sensitivity, Phone (headphone jack), DISC/NOTCH, and Volume, along with the LCD display elements.

- **POWER (OFF/ON):** Slide switch to turn the detector on or off.
- **SENS (Sensitivity):** Adjusts the detector's sensitivity to metal objects.
- **PHONE:** 3.5mm jack for connecting headphones (not included).
- **DISC/NOTCH:** Buttons to select and adjust discrimination and notch settings.
- **VOLUME:** Rotary knob to adjust the audio output level.
- **ALL METAL Button:** Activates the All Metal detection mode.
- **DISC Button:** Activates the Discrimination mode.
- **NOTCH Button:** Activates the Notch mode.

## 4. ASSEMBLY AND SETUP

Follow these steps to assemble your metal detector:

1. **Attach the Search Coil:** Connect the search coil to the lower stem using the provided bolt and knob. Ensure it is securely fastened but allows for slight angle adjustment.
2. **Connect the Stems:** Slide the lower stem into the middle stem, and then the middle stem into the upper stem (which has the control panel and armrest). Use the locking collars to secure the desired length.
3. **Install Batteries:** Open the battery compartment on the control panel. Insert two 9V batteries, ensuring correct

polarity (+/-). Close the compartment securely.

4. **Adjust Armrest and Stem Length:** Adjust the length of the stem using the locking collars to a comfortable height that allows you to sweep the coil parallel to the ground without bending over. Position the armrest so your forearm rests comfortably, providing good balance. The detector is adjustable between 39 inches and 53 inches.
5. **Coil Cable Management:** Wrap the coil cable snugly around the stem, leaving enough slack near the coil for angle adjustments. Plug the coil connector into the corresponding port on the control panel.

## 5. OPERATING INSTRUCTIONS

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### 5.1 Powering On and Basic Operation

1. Slide the **POWER** switch to the 'ON' position. The LCD display will illuminate.
2. Adjust the **VOLUME** knob to a comfortable listening level.
3. Begin by setting the **SENS** (Sensitivity) to a medium level (e.g., 6-8) for initial testing. You can increase it later for deeper detection or decrease it to reduce false signals in highly mineralized ground.

### 5.2 Detection Modes

The GC-1020 offers three primary detection modes to optimize your search:

- **ALL METAL Mode:** Press the **ALL METAL** button. In this mode, the detector will respond to all types of metal objects. This is ideal for finding all metal targets or when the type of metal is unknown. The **DISC** and **NOTCH** settings are inactive in this mode.
- **DISC (Discrimination) Mode:** Press the **DISC** button. This mode allows you to eliminate unwanted metals from detection. Use the **DISC/NOTCH** buttons (left/right arrows) to adjust the discrimination level. As you increase the **DISC** setting, the detector will ignore more types of ferrous metals and small trash items, focusing on more valuable targets. The LCD will show the target range.
- **NOTCH Mode:** Press the **NOTCH** button. This mode allows you to selectively ignore specific categories of metal. Use the **DISC/NOTCH** buttons to cycle through the metal categories displayed on the LCD (e.g., S-CAPS, 5¢, 10¢, 25¢, etc.). Once a category is selected, you can 'notch out' that specific metal type, meaning the detector will not alert you to its presence.

# DISC&Notch Mode



Image 5.1: Visual representation of how DISC mode allows choosing desired metals, and NOTCH mode allows deleting unwanted metal signals.

## 5.3 Sensitivity Adjustment

The **SENS** button allows you to adjust the detector's sensitivity (12 levels). Higher sensitivity increases detection depth but can also lead to more false signals in mineralized ground or areas with electromagnetic interference. Start with a moderate setting and increase it gradually as needed.

## 5.4 Audio Tones and Depth Indication

The GC-1020 provides three distinct audio tones to help identify different types of metals. The LCD display also indicates the approximate depth of the detected object, helping you decide whether to dig.

## 5.5 Pinpoint Function

While not a dedicated button, the GC-1020's precise detection capabilities allow for effective pinpointing. Once a target is detected, slowly narrow your sweep pattern over the target area. The strongest signal and most stable depth reading will indicate the center of the object.

## 5.6 Usage Tips for Various Terrains

## Meet Your Various Exploration Needs

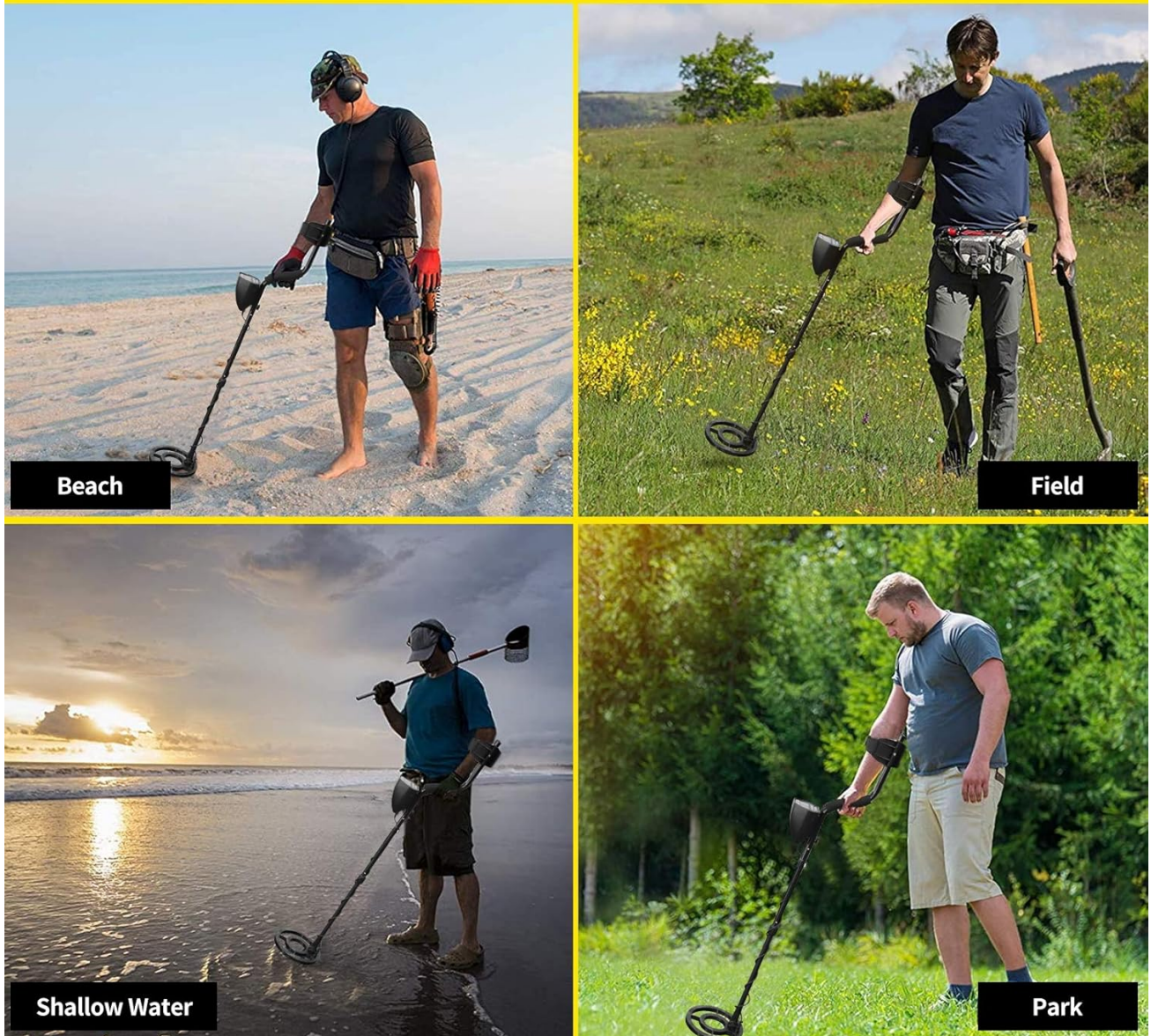


Image 5.2: Examples of metal detector use on a beach, in a field, in shallow water, and in a park.

- **Beach:** The waterproof search coil allows for detection in wet sand and shallow water. Use DISC mode to filter out bottle caps and other common beach trash.
- **Field/Park:** These areas are excellent for coins and relics. Experiment with DISC and NOTCH modes to ignore modern trash.
- **Shallow Water:** Ensure only the search coil is submerged. The control panel is NOT waterproof.
- **Sweeping:** Sweep the search coil slowly and steadily, keeping it parallel to the ground and as close as possible without touching. Overlap each sweep by about half the coil's diameter.

## 6. MAINTENANCE

Proper care will extend the life and performance of your metal detector:

- **Cleaning:** After each use, especially in sandy or dirty conditions, wipe down the search coil and stem with a damp cloth. Avoid using abrasive cleaners or solvents. The control panel should be kept dry.
- **Battery Care:** Always remove batteries if the detector will not be used for an extended period (more than a

week) to prevent leakage and damage.

- **Storage:** Store the detector in a cool, dry place. Avoid extreme temperatures. If disassembling for storage, ensure all components are clean and dry.
- **Coil Protection:** Consider using a coil cover (if available) to protect the search coil from scratches and abrasion.

## 7. TROUBLESHOOTING

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If you encounter issues with your metal detector, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
No power / Detector does not turn on	Batteries are dead or incorrectly installed.	Replace with fresh 9V batteries, ensuring correct polarity.
Constant false signals / Chatter	High sensitivity setting; electromagnetic interference; highly mineralized ground.	Reduce sensitivity. Move away from power lines, cell phones, or other electronic devices. Try ground balancing if available (not a specific feature on this model, but general advice).
Poor detection depth	Low sensitivity setting; small target; deep target.	Increase sensitivity. Ensure the coil is swept slowly and close to the ground.
Detector beeps at unwanted metals	Incorrect DISC or NOTCH settings.	Adjust DISC or NOTCH settings to filter out specific metal types. Ensure you are in DISC or NOTCH mode.
No audio output	Volume too low; headphones not connected properly or faulty.	Increase volume. Check headphone connection or try without headphones.

If the problem persists after trying these solutions, please contact customer support.

## 8. SPECIFICATIONS

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Feature	Specification
Model Number	GC-1020
Detection Depth	Up to 9.8 inches (depending on target size and ground conditions)
Search Coil Size	10 inches (waterproof)
Adjustable Length	39 inches to 53 inches
Detection Modes	ALL METAL, DISC, NOTCH
Sensitivity Levels	12 levels
Audio Tones	3 distinct tones
Display	LCD with depth indication and target identification
Power Source	2 x 9V batteries (included)
Item Weight	2.2 pounds
Package Dimensions	17.05 x 10.31 x 5.67 inches
Manufacturer	Aneken

## 9. WARRANTY AND SUPPORT

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Aneken stands behind the quality of its products. Your GC-1020 Metal Detector comes with **2-year factory warranty**, covering defects in materials and workmanship from the date of purchase.

Additionally, we provide **lifetime technical support**. If you have any questions, require assistance with troubleshooting, or need to make a warranty claim, please contact our US-based customer service team. Refer to your product packaging or the retailer's website for the most current contact information.

We are committed to ensuring your satisfaction and providing an extraordinary experience with your Aneken metal detector.