Denver MET-110

Denver MET-110 Metal Detector User Manual

1. INTRODUCTION

Thank you for choosing the Denver MET-110 Metal Detector. This manual provides essential information for the safe and effective operation, maintenance, and troubleshooting of your device. Please read it thoroughly before use and retain it for future reference.

1.1 Safety Warning

Do not enter deep water. The product is designed to withstand low-pressure water jets (IP65). The search coil is waterproof up to a maximum depth of 20 cm.

2. PRODUCT OVERVIEW

The Denver MET-110 is a lightweight and adjustable metal detector designed for locating various metals, including light metals, gold, and silver.

2.1 Key Features

- **Precise Localization:** The search coil detects light metals, gold, and silver up to a depth of 18 cm.
- **Adjustable Height:** Features an adjustable shaft between 80 cm and 108 cm, suitable for both children and adults.
- **Lightweight Design:** Weighs only 940 grams for comfortable use.
- **Water-Resistant Search Coil:** The search coil is waterproof up to a maximum depth of 20 cm.
- **Visual and Audio Indicator:** Displays metal detection on the screen and emits an audible warning signal.
- **Headphone Jack:** Includes an audio jack for headphones (headphones not included).

2.2 Components

Familiarize yourself with the main components of your metal detector:

Figure 1: Full view of the Denver MET-110 Metal Detector, showing the control unit, adjustable shaft, armrest, and search coil.

Figure 2: Close-up of the control panel, featuring the target indicator meter, DISC (discrimination), ALL METAL, VOLUME, LOW BAT, EAR (headphone jack), SENS (sensitivity), and POWER OFF controls.

Figure 3: Side view of the metal detector, illustrating the ergonomic armrest and the adjustable shaft mechanism.

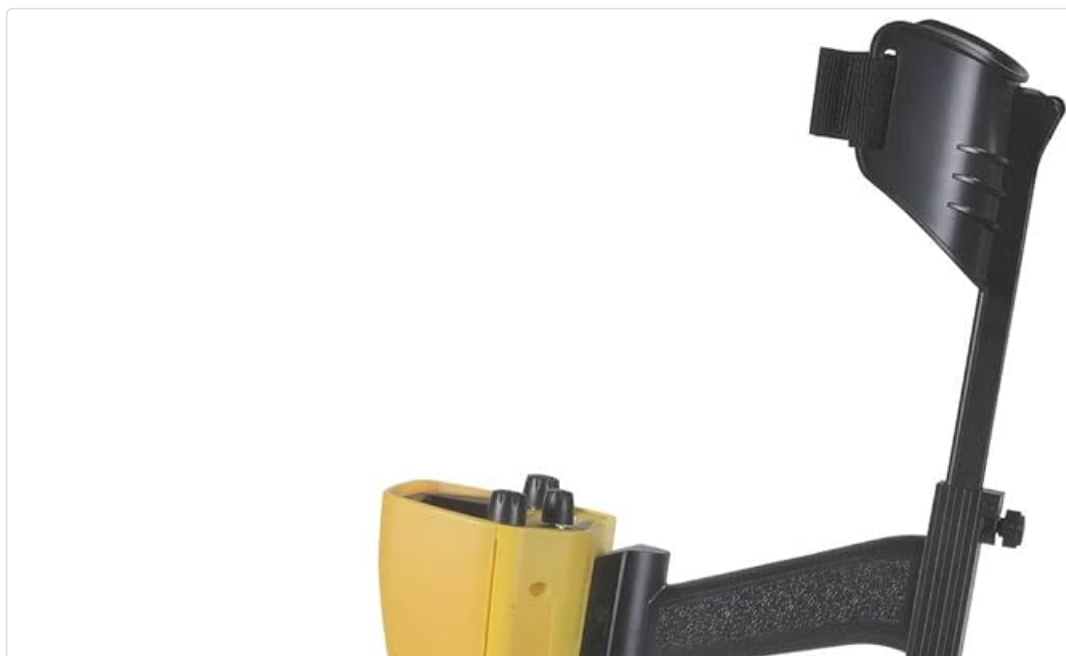Figure 4: A user demonstrating the proper grip and posture for operating the metal detector.

Figure 5: Full side profile of the Denver MET-110 Metal Detector, showcasing its fully extended length and overall design.

3. SETUP

3.1 Assembly

1. Attach the search coil to the lower stem.
2. Connect the lower stem to the middle stem.
3. Connect the middle stem to the upper stem, which includes the control unit and armrest.
4. Secure all connections firmly.
5. Adjust the shaft length to a comfortable height using the adjustment mechanism.

3.2 Battery Installation

The Denver MET-110 requires two (2) 9V batteries (not included).

1. Locate the battery compartment on the control unit.
2. Open the battery compartment cover.
3. Insert two 9V batteries, ensuring correct polarity (+/-).
4. Close the battery compartment cover securely.

Note: Always use fresh batteries for optimal performance. Remove batteries if the device will not be used for an extended period.

4. OPERATING INSTRUCTIONS

4.1 Power On/Off

- To power on, rotate the POWER OFF knob clockwise.
- To power off, rotate the POWER OFF knob counter-clockwise until it clicks.

4.2 Adjustments

- **VOLUME:** Adjusts the loudness of the audio signal. Rotate clockwise to increase, counter-clockwise to decrease.
- **SENS (Sensitivity):** Controls the detector's sensitivity to metal objects. Higher sensitivity can detect smaller or deeper objects but may also pick up more interference. Adjust as needed for your search environment.
- **DISC (Discrimination):** Allows the detector to ignore certain types of metal (e.g., iron) and focus on others. Rotate the DISC knob to set the discrimination level.
- **ALL METAL:** When selected, the detector will respond to all types of metal without discrimination.

4.3 Target Indication

- When a metal object is detected, the target indicator meter on the control panel will move.
- Simultaneously, an audible signal will be emitted. The pitch or intensity of the sound may vary depending on the type and size of the metal.
- The LOW BAT indicator will illuminate when the batteries are low and need replacement.

4.4 Using Headphones

For improved audio clarity and to conserve battery life, you can connect headphones (not included) to the EAR jack on the control panel.

4.5 Searching Tips

- Sweep the search coil slowly and steadily from side to side, keeping it parallel to the ground.
- Overlap each sweep by about half the coil's diameter to ensure thorough coverage.

- Maintain a consistent distance between the search coil and the ground.
- The maximum effective search depth for light metals, gold, and silver is approximately 18 cm.

5. MAINTENANCE

5.1 Cleaning

- Wipe the detector with a damp cloth after each use, especially the search coil if used in wet or dirty conditions.
- Do not use abrasive cleaners or solvents.
- Ensure the control unit remains dry. While the search coil is water-resistant, the control unit is not designed for submersion.

5.2 Storage

- Store the metal detector in a cool, dry place.
- Remove batteries if storing for extended periods to prevent leakage and damage.

5.3 Battery Care

- Replace batteries when the LOW BAT indicator illuminates.
- Dispose of used batteries responsibly according to local regulations.

6. TROUBLESHOOTING

6.1 No Power

- Check if batteries are correctly installed with proper polarity.
- Replace with fresh 9V batteries.
- Ensure the POWER OFF knob is rotated to the 'ON' position.

6.2 Erratic Signals or False Alarms

- Reduce the SENS (Sensitivity) setting.
- Adjust the DISC (Discrimination) setting to filter out unwanted metals or ground mineralization.
- Ensure there are no strong electromagnetic interference sources nearby (e.g., power lines, other electronic devices).
- Check for loose connections in the shaft assembly.

6.3 Weak or No Audio

- Increase the VOLUME setting.
- If using headphones, ensure they are properly plugged in and functional.
- Check battery level; low batteries can affect audio output.

7. SPECIFICATIONS

Feature	Specification

Feature	Specification
Model	MET-110
Brand	Denver
Product Dimensions (L x W x H)	50 x 50 x 28 cm
Item Weight	940 Grams
Material	Metal
Power Source	Battery powered (2x 9V batteries required, not included)
Extended Length	108 Centimeters
Adjustable Length	Yes
International Protection Rating (IP)	IP65
Maximum Search Depth	18 cm (for light metals, gold, silver)
Search Coil Water Resistance	Up to 20 cm depth
Color	Black

8. WARRANTY AND SUPPORT

Specific warranty information for the Denver MET-110 Metal Detector is not provided in this manual. For warranty details, technical support, or spare parts inquiries, please refer to the documentation included with your purchase or contact Denver customer service directly.

You may also visit the official Denver website for more information: www.denver-electronics.com

Related Documents - MET-110

Denver MET-117 Detector de Metales: Guía de Usuario y Características

Explore el detector de metales Denver MET-117. Este manual detalla sus características, modos de funcionamiento (Todo Metal, Disco), montaje, instalación de pilas y consejos de uso para una detección efectiva. Ideal para aficionados a la búsqueda de tesoros.

MET-110 Manual denver.eu 2021	**Denver MET-110 Metal Detector User Manual and Safety Guide** User manual and safety information for the Denver MET-110 metal detector by Denver A/S. Learn about safe operation, product care, and find the full manual online at denver.eu.
MET-117	**Denver MET-117 Metal Detector User Manual** Comprehensive user manual for the Denver MET-117 metal detector. This guide covers assembly, battery installation, operation modes (All Metal, Disc), functions, indicators, testing, coil sweeping tips, and safety precautions. Learn how to effectively use your metal detector for finding various metal objects.
METAL DETECTOR DENVER MET-100 Instruction Manual	**Denver MET-100 Metal Detector Instruction Manual	Operation & Features** Comprehensive instruction manual for the Denver MET-100 metal detector. Learn about specifications, assembly, operation, field use, troubleshooting, and safety guidelines for this beginner-friendly device.
MET-117	**Denver MET-117 Metal Detector User Manual and Guide** Comprehensive user manual for the Denver MET-117 metal detector, covering safety, features, assembly, operation, testing, and maintenance. Learn how to find coins, relics, jewelry, gold, and silver.
MET-117	**Denver MET-117 Metal Detector User Manual** Comprehensive user manual for the Denver MET-117 metal detector, covering safety, assembly, operation, testing, and maintenance. Learn how to find coins, relics, jewelry, gold, and silver with detailed instructions and tips.