

MD3028

MD3028 Professional Underground Metal Detector User Manual

Model: MD3028 | Brand: Generic

1. INTRODUCTION

Thank you for choosing the MD3028 Professional Underground Metal Detector. This device is designed for efficient and accurate detection of various metals, including iron, aluminum, gold, copper, and silver. Its intuitive LCD display and multiple operating modes make it suitable for both beginners and experienced treasure hunters. Please read this manual thoroughly before operation to ensure proper use and longevity of your device.

Package Contents

The MD3028 metal detector package typically includes the following components:

- Adjustable Metal Detector (requires assembly)
- User Manual



Figure 1: MD3028 Metal Detector with its main control unit.

2. SAFETY INFORMATION

General metal detector safety guidelines may apply. No specific safety warnings are provided with this product. Always exercise caution when operating the device, especially in unfamiliar terrain. Be aware of your surroundings and local regulations regarding metal detecting.

3. SETUP AND ASSEMBLY

Assembling the Metal Detector

The MD3028 metal detector requires assembly. Follow these general steps:

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. Ensure the cable from the search coil is wrapped neatly around the stem and connected to the control unit.
5. Adjust the stem length to a comfortable position for operation. The adjustable stem allows for lengths between 40.1 inches and 47.6 inches.



Figure 2: The adjustable stem allows for comfortable use by users of different heights.

Battery Installation

The MD3028 requires two 9V batteries (not included). Locate the battery compartment on the control unit, open it, insert the batteries with correct polarity, and close the compartment securely.

4. OPERATING INSTRUCTIONS

Understanding the LCD Display

The large backlit LCD screen provides crucial information during operation:

- **Depth Indication:** Displays the approximate depth of the detected object (maximum 8 inches).
- **Operating Mode:** Shows the currently selected detection mode (All Metal, DISC, P/P).
- **Sensitivity Level:** Indicates the current sensitivity setting.
- **Battery Condition:** Displays the remaining battery life.
- **Volume Level:** Shows the current audio volume.
- **Target Categories:** Distinguishes between 7 target categories and allows for elimination of unwanted metals.



Figure 3: The LCD display provides comprehensive information at a glance.

Operating Modes

The MD3028 offers three primary operating modes:

- **All Metal Mode:** Detects all types of metal without discrimination. Ideal for finding all metal objects.
- **DISC (Discrimination) Mode:** Allows you to eliminate certain types of metals from detection. This is useful for ignoring junk metal and focusing on valuable targets.
- **P/P (Pinpoint) Mode:** Used to precisely locate the exact position of a detected target.

Audio Prompts

The metal detector features unique audio tones (bass, midrange, and treble) to help distinguish between different types of metals, providing an auditory indication of the detected object.

Adjusting Sensitivity and Volume

Use the control buttons on the unit to adjust the sensitivity level. Higher sensitivity can detect smaller or deeper objects but may also pick up more interference. Adjust the volume to a comfortable listening level using the dedicated volume controls.

Detection Depth

The minimum detection diameter is 8 inches (tested with a US 50 cent coin). The actual detection depth can vary based on soil conditions, target size, and sensitivity settings. The device can detect various metals at depths up to approximately 7.1 inches (tested with a 25 cent coin).

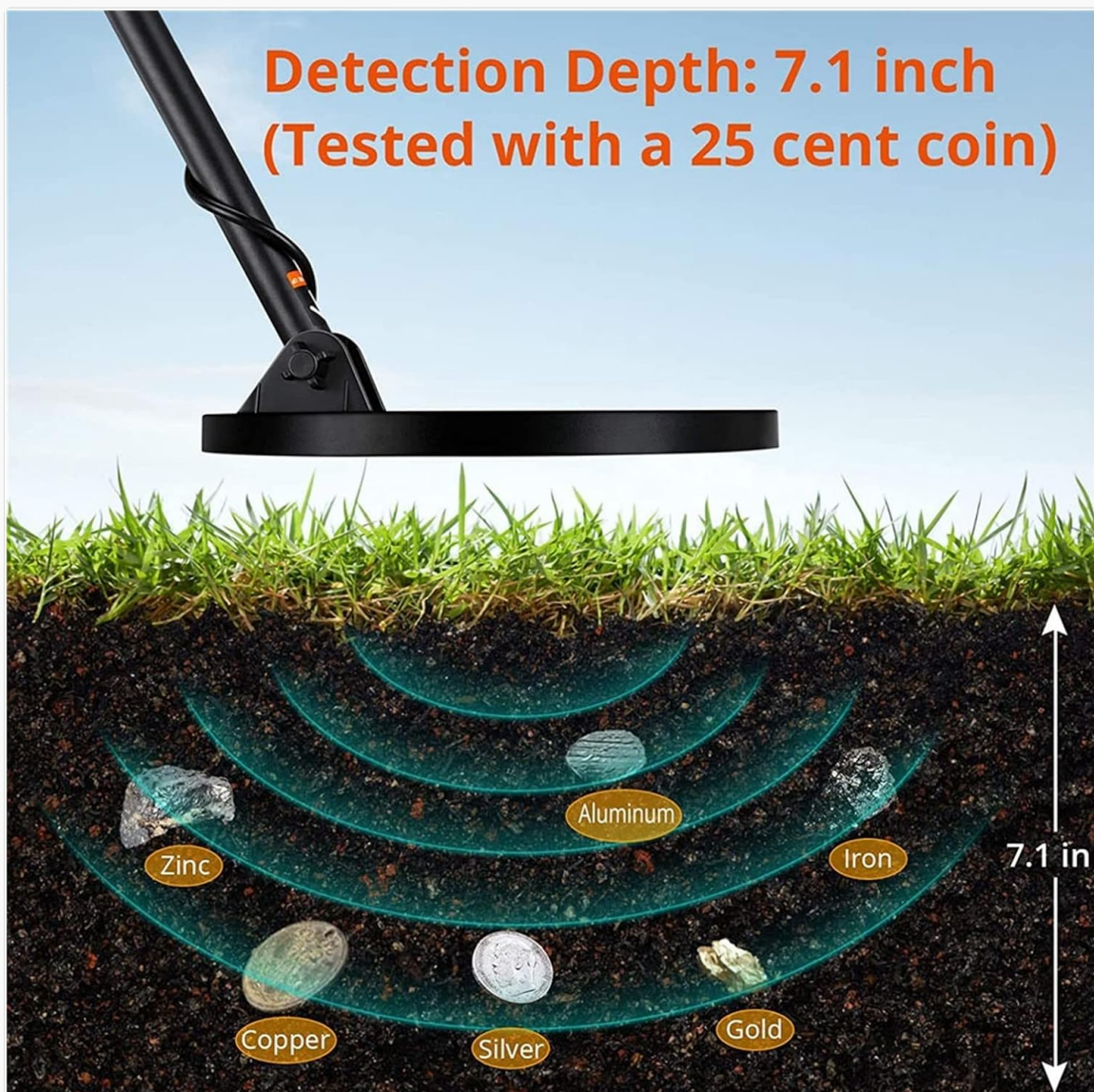


Figure 4: Illustration of typical detection depth for various metals.

Using the Headphone Jack

The MD3028 includes a 3.5mm audio jack, allowing you to connect headphones for private listening and clearer audio signals, especially in noisy environments.

5. MAINTENANCE

Proper maintenance ensures the longevity and optimal performance of your metal detector:

- **Cleaning:** After each use, wipe down the detector with a damp cloth to remove dirt and debris. Avoid using abrasive cleaners or solvents.
- **Storage:** Store the detector in a dry, cool place away from direct sunlight and extreme temperatures. If storing for extended periods, remove the batteries to prevent leakage.
- **Battery Care:** Always use fresh, high-quality 9V batteries. Replace batteries when the low battery indicator appears on the LCD.
- **Search Coil:** The 8.5-inch search coil is waterproof, allowing for shallow water detection. However, the control unit is not waterproof. Do not submerge the control unit.

6. TROUBLESHOOTING

If you encounter issues with your MD3028 metal detector, refer to the following common problems and solutions:

- **No Power:**
 - Check if batteries are installed correctly with proper polarity.
 - Replace with fresh batteries.
- **Erratic Signals or False Readings:**
 - Reduce sensitivity.
 - Ensure no metallic objects (jewelry, watches, cell phones) are near the search coil or control unit.
 - Avoid areas with high electromagnetic interference (power lines, other electronic devices).
- **No Detection:**
 - Increase sensitivity.
 - Ensure the search coil is properly connected to the control unit.
 - Check if the detector is in the correct operating mode (e.g., All Metal mode for general detection).

7. SPECIFICATIONS

Feature	Specification
Model	MD3028
Power Supply	2 x 9V batteries (not included)
Sensitivity	>18cm (for a US 25 cent coin)

Search Coil Diameter	220mm / 8.7 inches (Waterproof)
Adjustable Stem Length	1080mm - 1300mm (42.5 - 51.2 inches)
Headphone Jack	3.5mm
Operation Modes	All Metal, DISC, P/P
Display Type	LCD (Backlit)
Item Weight	Approx. 1.1 pounds (500 grams)
Material	Metal
International Protection Rating	IP54 (for search coil)

8. WARRANTY AND SUPPORT

Specific warranty details for the MD3028 Metal Detector are not explicitly provided in the product information. For any warranty claims, technical support, or further assistance, please contact the seller or manufacturer directly. Retain your proof of purchase for any potential service needs.