

[Manuals.plus](#) /

› [MINELAB](#) /

› MINELAB MANTICORE Metal Detector User Manual

MINELAB 3228-0200

MINELAB MANTICORE Metal Detector User Manual

Model: 3228-0200

INTRODUCTION

The MINELAB MANTICORE is a state-of-the-art metal detector engineered for superior performance across diverse environments. Utilizing advanced Multi-IQ+ technology, it provides enhanced power and precision for identifying targets. This manual provides comprehensive instructions for setting up, operating, maintaining, and troubleshooting your MANTICORE metal detector to ensure optimal performance and longevity.



Figure 1: The MINELAB MANTICORE Metal Detector with its main components.

SETUP

Assembly

1. **Unpack Components:** Carefully remove all components from the packaging. Verify that all parts listed in the packing list are present, including the control pod, carbon fiber shaft, M11 coil with skidplate, and adjustable armrest.
2. **Attach Coil:** Securely attach the M11 coil to the lower shaft section. Ensure the connection is firm.
3. **Assemble Shaft:** Connect the lower, middle, and upper sections of the carbon fiber shaft. The MANTICORE features a collapsible design, allowing adjustment from 24.8 inches (630 mm) to 56.7 inches (1440 mm) for comfortable use and

transport.

4. **Mount Control Pod:** Attach the control pod to the upper shaft. Ensure it is oriented correctly for easy viewing and access to controls.
5. **Connect Cables:** Connect the coil cable to the control pod. Ensure the magnetic USB charging connector is accessible for future charging.
6. **Adjust Armrest:** Position the adjustable armrest for comfortable and stable operation.



Figure 2: Exploded view showing the main components of the MANTICORE detector, including the waterproof M11 coil, carbon fiber shaft, backlit control pod, and adjustable armrest.



Figure 3: Illustration of the MANTICORE's collapsible length (630 mm / 24.8 inches) and extended length (1440 mm / 56.7 inches), highlighting its portability and adjustable design.

Charging the Battery

The MANTICORE is powered by a rechargeable Lithium Ion battery (included). Before first use, fully charge the detector using the provided magnetic USB charging connector. A full charge ensures maximum operating time.

OPERATING INSTRUCTIONS

Power On/Off

Press and hold the **Power On/Off** button located on the control pod to turn the detector on or off.



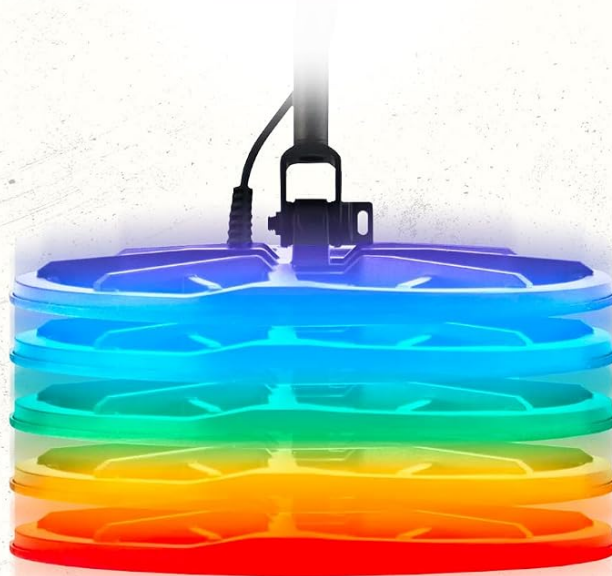
Figure 4: Detailed view of the MANTICORE's control pod, showing the Power On/Off button, lighting controls, backlit keypad, pinpoint function, wireless audio control, user configurable soft key, 2D ID map, and sensitivity/settings adjust buttons.

Multi-IQ+ Technology

The MANTICORE utilizes Minelab's Multi-IQ+ technology, which transmits more power through the coil at a wider range of operating frequencies simultaneously. This enhances target detection and identification in various ground conditions.

MULTI-IQ+

Multi-IQ+ transmits more power through the coil at a wider range of operating frequencies, to light up more targets in the ground.



Multi-IQ+
High Power Simultaneous Multi-Frequency

Figure 5: Visual representation of Multi-IQ+ technology, illustrating how multiple frequencies are transmitted through the coil to detect targets.

Search Modes

The MANTICORE offers 10 customizable Search Modes to optimize performance for different environments:

- **All-Terrain:** Optimized for inland detecting.
- **Beach:** Optimized for sand, surf, and seawater zones.
- **Goldfield:** Optimized for detecting gold nuggets.

Select the appropriate mode using the controls on the display. Customization options allow you to fine-tune settings within each mode.

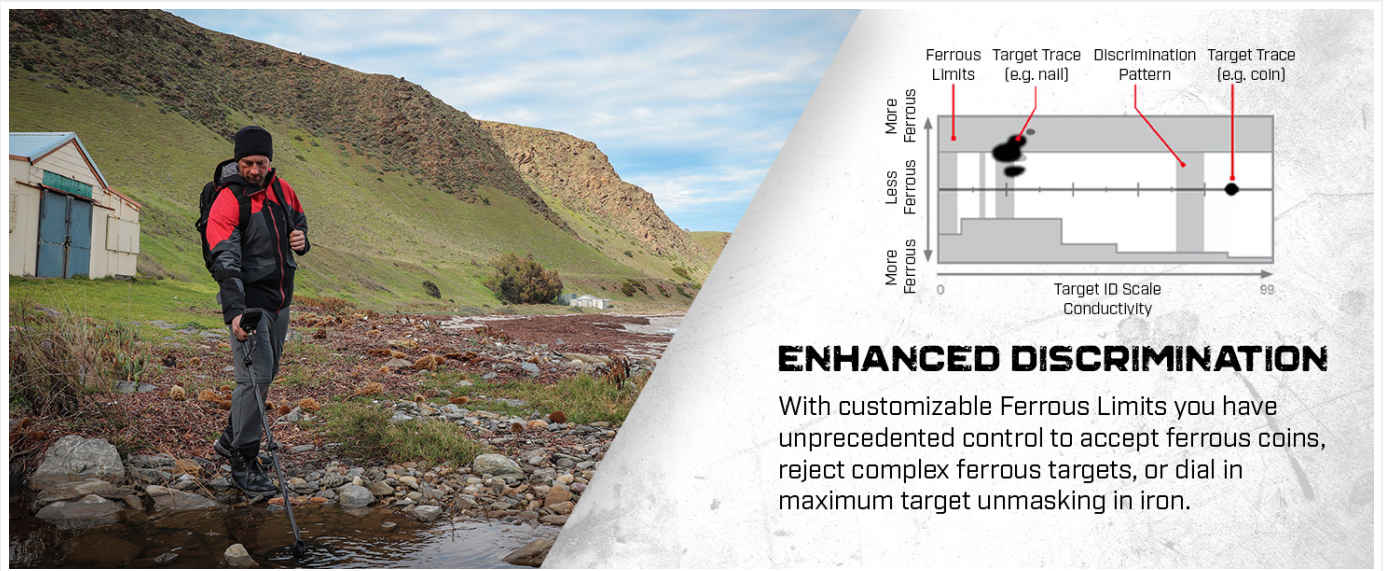


Figure 6: Depiction of the MANTICORE's ultimate search modes, showing different terrains like inland, beach, and goldfield, and how the detector adapts to each.

Advanced Target ID and Discrimination

The 2D Target ID map provides visual information about detected targets, helping to differentiate between desired items and trash. Enhanced discrimination features allow you to reject unwanted ferrous targets.

- **Discriminate:** Create custom discrimination patterns to accept good targets and reject bad ones.
- **Classify Targets:** Ferrous Limits help maximize detectability of targets among ferrous trash.
- **Assign Audio:** Customize pitch and volume for up to 5 tone regions to amplify targets you want to hear.

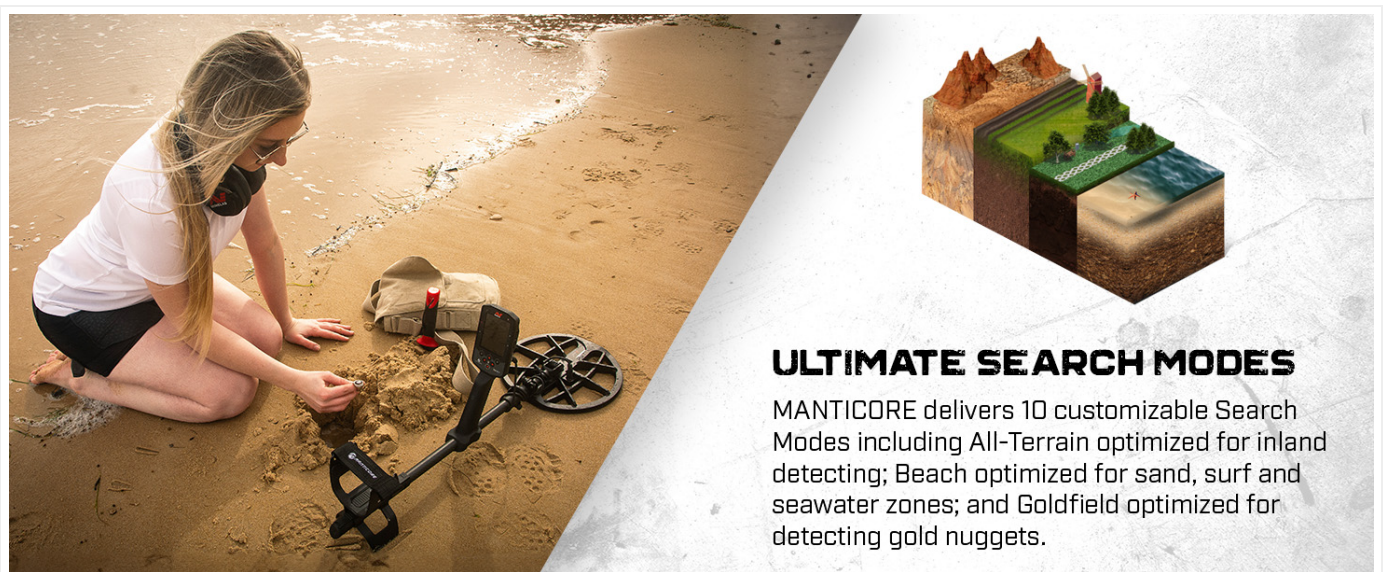


Figure 7: Diagram explaining the 2D ID Map, illustrating how the detector detects, identifies, classifies, and assigns audio to targets based on conductivity and ferrous properties.

FAST RESPONSE

Find desired targets amongst ferrous trash like no other with exceptional target separation performance.



Figure 8: Illustration demonstrating the MANTICORE's fast response and exceptional target separation performance, showing how it can distinguish a desired target (coin) from ferrous trash (nails) underground.

Audio and Lighting

The MANTICORE includes customizable audio controls and integrated lighting features for various detecting conditions:

- **Customizable Audio:** Adjust audio settings to confidently identify targets and reduce noise.
- **Flashlight:** Integrated flashlight for low-light conditions.
- **Handgrip Vibration:** Provides tactile feedback for target detection.
- **Display and Keypad Backlight:** Ensures visibility of the display and controls in dim light or at night.



Figure 9: Overview of additional MANTICORE features, including the built-in speaker, flashlight, magnetic USB charging connector, 3.5 mm headphone socket with waterproof cap, and handgrip vibration.

MAINTENANCE

- **Cleaning:** After each use, especially in wet or dirty conditions, wipe down the detector with a damp cloth. Ensure all connections are dry before storage. The MANTICORE is waterproof up to 16 ft (IP68), but proper cleaning helps prevent residue buildup.
- **Coil Care:** Inspect the search coil for any damage or wear. The included skidplate helps protect the coil during use.
- **Battery Care:** Store the detector with a partially charged battery if not in use for extended periods. Avoid fully discharging the battery frequently to prolong its lifespan.
- **Storage:** Store the detector in a cool, dry place, away from direct sunlight and extreme temperatures. The collapsible design allows for compact storage.

TROUBLESHOOTING

Problem	Possible Cause	Solution
Detector does not power on.	Low or depleted battery.	Charge the battery fully.
No target response.	Incorrect search mode or sensitivity settings.	Adjust sensitivity and ensure correct search mode for the terrain. Check coil connection.
Excessive false signals.	High electromagnetic interference or ground mineralization.	Reduce sensitivity. Perform ground balance. Adjust discrimination settings.
Audio issues (no sound/distorted).	Headphones not connected properly or volume too low.	Check headphone connection and volume settings. Ensure wireless audio is enabled if using wireless headphones.

SPECIFICATIONS

- **Brand:** MINELAB
- **Model:** 3228-0200
- **Color:** Black

- **Material:** Metal
- **Power Source:** Battery Powered (1 Lithium Ion battery included)
- **Item Weight:** 2.9 Pounds
- **Product Dimensions:** 12.8"L x 4.13"W x 26.77"H
- **Extended Length:** 1440 mm (56.7 inches)
- **Adjustable Length:** Yes
- **International Protection Rating:** IP68 (Waterproof up to 16 ft)
- **Operating Frequency:** Multi-IQ+ (Simultaneous Multi-Frequency)
- **Recommended Uses:** Metal Detection
- **Display Type:** LCD
- **Number of Programs:** 3 (All-Terrain, Beach, Goldfield)

WARRANTY AND SUPPORT

For warranty information, technical support, or service inquiries, please refer to the official MINELAB website or contact MINELAB customer service directly. Keep your proof of purchase for warranty claims.

© 2023 MINELAB. All rights reserved.

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page’s manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question

