VIHELM MD6350

VIHELM MD6350 Industrial Metal Detector

User Instruction Manual

Introduction

Thank you for choosing the VIHELM MD6350 Industrial Metal Detector. This device is designed for high-sensitivity detection of various metals, making it ideal for industrial applications, treasure hunting, and security checks. With its advanced features and robust design, the MD6350 provides reliable performance and ease of use. Please read this manual thoroughly before operating your metal detector to ensure proper assembly, optimal performance, and safe operation.

Safety Information

- Always be aware of your surroundings when operating the metal detector.
- Do not use the detector near live electrical wires or in areas with known underground utilities without proper verification.
- Avoid operating the detector in thunderstorms or extreme weather conditions.
- Keep the detector away from strong magnetic fields, which can interfere with its operation.
- Ensure all connections are secure before use.
- Dispose of batteries responsibly according to local regulations.

Package Contents

Upon opening the package, please verify that all components are present and in good condition. If any parts are missing or damaged, contact customer support immediately.



Image: The VIHELM MD6350 metal detector components, including the search coil, control unit, stem, armrest, and a small accessory bag, are shown alongside the product packaging box.

- MD6350 Control Unit
- Adjustable Stem (Upper and Lower)
- 13-inch Search Coil
- Armrest
- Fastening Hardware (Knob, Threaded bolt, Washer)
- User Manual (This document)

Assembly and Setup

Follow these steps to assemble your MD6350 metal detector:

1. **Attach the Search Coil:** Connect the search coil to the lower stem using the provided knob, threaded bolt, and washer. Ensure it is securely fastened but not overtightened, allowing for slight angle adjustment.
2. **Connect the Stems:** Slide the lower stem into the upper stem. Adjust the length to a comfortable height for operation and secure it with the spring clip.
3. **Mount the Control Unit:** Attach the control unit to the top of the upper stem. The padded armrest should be positioned for comfortable support.
4. **Connect the Coil Cable:** Wrap the search coil cable around the stem, ensuring it is not tangled or pinched. Plug the cable connector into the cable interface port on the control unit. Make sure the connection is firm.
5. **Install Batteries:** The MD6350 requires four (4) AA batteries (not included). Open the battery housing on the control unit and insert the batteries, observing the correct polarity (+/-). Close the battery compartment securely.



Image: A detailed diagram illustrating the various components of the MD6350 metal detector, including the search coil, stem, control unit, armrest, and the specific layout of the control panel with labeled buttons and indicators.

Controls and Display

The MD6350 features an intuitive control panel with an LCD display. Refer to the diagram above for component identification.



Image: A close-up view of the MD6350 control panel, showing the LCD screen, mode buttons, sensitivity and discrimination controls, and the pinpoint button.

- **LCD Screen:** Displays detection modes, target ID legend, sensitivity level, discrimination pattern, coin depth indicator, and battery indicator.
- **MODE Button:** Cycles through the five detection modes: Jewelry, Custom, Relics, Coins, and Zero. The selected

mode is highlighted on the LCD.

- **SENSITIVITY Button:** Adjusts the detector's sensitivity level. The MD6350 has eight (8) sensitivity settings. Higher sensitivity increases detection depth but may also increase false signals.
- **DISCRIM Button:** Used to adjust the discrimination pattern, allowing the user to ignore unwanted metals (ferrous) and focus on desired targets (non-ferrous).
- **PINPOINT Button:** Activates the pinpoint mode to precisely locate the target.
- **Target ID Legend:** Works in conjunction with the Target ID Cursor to indicate a target's probable identity.
- **Target ID Cursor:** Indicates the probable identity of a detected target. The cursor scale consists of twelve (12) graphic segments that correspond to the Target ID Legend.
- **Coin Depth Indicator:** Displays the approximate depth of a coin-sized target in 2-inch increments (5cm, 10cm, 15cm, 20+cm).
- **Battery Indicator:** Shows the current battery condition.

Operating Instructions

Powering On/Off

Press and hold the MODE button to power on the detector. To power off, press and hold the MODE button again.

Selecting a Detection Mode

Press the MODE button repeatedly to cycle through the available detection modes:

- **JEWELRY:** Optimized for detecting jewelry items.
- **CUSTOM:** Allows you to set your own discrimination pattern.
- **RELICS:** Designed for finding historical artifacts.
- **COINS:** Best for coin hunting.
- **ZERO:** Detects all metals without discrimination.

Adjusting Sensitivity

Press the SENSITIVITY button to increase or decrease the detector's sensitivity. Start with a moderate setting and increase it if you need more depth, or decrease it if you experience excessive false signals due to ground mineralization or electrical interference.

Using Discrimination

The DISCRIM button allows you to accept or reject certain types of metal. When a target is detected, the Target ID Cursor will appear. Use the DISCRIM button to adjust the discrimination pattern to ignore unwanted targets (e.g., iron nails) while still detecting desired targets (e.g., coins, jewelry).

Pinpointing a Target

Once a target is detected, press the PINPOINT button. Move the search coil slowly over the target area. The detector will emit a continuous tone and the signal strength indicator will increase as you get closer to the center of the target. The loudest and most stable tone indicates the precise location.

Sweeping the Search Coil

Hold the search coil parallel to the ground, approximately 1-2 inches above the surface. Sweep the coil from side to side in a slow, overlapping motion. Maintain a consistent height and speed for optimal detection.



Image: The VIHELM MD6350 metal detector, showing the large 13-inch search coil attached to the stem, ready for use.

Maintenance

- **Cleaning:** Wipe down the detector with a damp cloth after each use. Do not use abrasive cleaners or solvents. The search coil is designed to be water-resistant for splashes and shallow water use, but the control unit is not waterproof. Do not submerge the control unit. Avoid fully submerging the search coil for extended periods, despite its water-resistant design.
- **Battery Care:** Remove batteries if the detector will not be used for more than 30 days to prevent leakage and damage.
- **Storage:** Store the detector in a cool, dry place. Avoid extreme temperatures.
- **Cable Management:** Ensure the coil cable is not kinked or damaged.

Troubleshooting

Problem	Possible Cause	Solution
No power	Dead or incorrectly installed batteries	Replace batteries, ensuring correct polarity.
Erratic signals / False signals	High sensitivity setting, electromagnetic interference, highly mineralized ground	Reduce sensitivity. Move away from power lines or other electronic devices.
No detection	Coil cable loose, discrimination set too high, target too deep	Check coil cable connection. Reduce discrimination. Increase sensitivity.
Inaccurate depth reading	Target size/shape, ground conditions	Depth indicator is an approximation. Practice with known targets.

Specifications

The following table outlines the key specifications for the VIHELM MD6350 Metal Detector:

Feature	Detail
Brand	VIHELM
Model Number	MD6350

Feature	Detail
Color	BLACK
Power Source	Battery Powered (4x 1.5V AA alkaline batteries, not included)
Operating Modes	5 modes: Jewelry, Custom, Relics, Coins, Zero (All-Metal)
Search Coil	13-inch, Water-resistant (IP65 rated for splashes and jets, not submersible), interchangeable, durable
Display	LCD display
Audio Output	Three-tone audio
Sensitivity Settings	8 settings
Detection Indication	LCD display
Battery Condition Indicator	Yes
Discrimination	Ferrous and non-ferrous
Operating Frequency	8.58 KHz
Current (Standby/Max)	50mA / 270mA
Item Weight	4 Pounds (approx. 1.8 kg)
Product Dimensions (Control Unit)	6 x 1 x 2 inches
Adjustable Length	42.5 - 51.2 inches
Max Detection Depth	25-50 cm (depends on target area and object)

Note: Some specifications are derived from product images and may vary slightly. The 13-inch search coil is highlighted in the product title and description.

Warranty and Support

The product information indicates a **2-year warranty**. For warranty claims, technical support, or any questions regarding your VIHELM MD6350 metal detector, please contact the seller or manufacturer directly through the platform where you purchased the product. Keep your purchase receipt as proof of purchase.
For additional resources and product information, you may visit theproduct page on Amazon.

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