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Model: MD-4060

1. INTRODUCTION

Thank you for choosing the VIHELM MD-4060 Metal Detector. This device is designed for detecting various types of metals underground, including gold, silver, coins, and cultural relics. Its advanced features, such as a waterproof search coil and adjustable sensitivity, make it suitable for diverse environments like deserts, beaches, and grasslands. Please read this manual thoroughly before operating the device to ensure proper use and optimal performance.

2. SAFETY INFORMATION

- Always operate the metal detector in safe, authorized areas. Avoid private property without permission.
- Do not use the detector near active power lines, underground cables, or pipes, as this can cause interference or present a hazard.
- Exercise caution when digging to avoid injury or damage to buried objects.
- Keep the device away from extreme temperatures and direct sunlight for prolonged periods.
- Ensure batteries are inserted correctly and dispose of used batteries responsibly.

3. PACKAGE CONTENTS

Verify that all items listed below are included in your package:

- 1 x Detector Control Unit
- 1 x Search Coil
- 1 x Armrest
- 2 x Rod Sections
- 1 x User Manual (English)

4. PRODUCT OVERVIEW

The VIHELM MD-4060 features a user-friendly design with an intuitive control panel and a robust, waterproof search coil. Key components include:

- **Control Unit:** Houses the LCD display, control buttons, and battery compartment.
- **Adjustable Rod:** Allows for comfortable use by individuals of varying heights.
- **Waterproof Search Coil:** Designed for detection in shallow water and various terrains.
- **Armrest:** Provides support and comfort during extended use.



Figure 4.1: Assembled VIHELM MD-4060 Metal Detector and separate control unit.



Figure 4.2: Detailed view of the control panel, highlighting LCD screen, headphone jack, sensitivity, pinpoint, discrimination, and all-metal mode.

5. SETUP

5.1 Assembly

The MD-4060 metal detector is designed for easy assembly without the need for special tools. Connect the rod sections, attach the search coil, and secure the control unit and armrest. Ensure all connections are firm.

5.2 Battery Installation

The detector requires two 9V 6F22 batteries (not included). Open the battery compartment on the control unit, insert the batteries according to the polarity indicators, and close the compartment securely.

5.3 Adjusting Height

The detector features an adjustable rod to accommodate users of different heights. Loosen the locking collar on the rod, extend or retract the rod to a comfortable operating position, and then tighten the collar to secure it.



Figure 5.1: Adjustable height mechanism and overall dimensions of the detector.

6. OPERATING INSTRUCTIONS

6.1 Powering On/Off

To power on the device, turn the VOLUME knob clockwise. To power off, turn it counter-clockwise until it clicks.

6.2 Understanding the LCD Display

The 3.1-inch LCD display provides crucial information:

- **Probable Metal Type:** Indicated by an arrow.

- **Target Depth:** Shows how deep the detected object is.
- **DISC/NOTCH Range:** Displays the current discrimination settings.
- **SENS Level:** Current sensitivity setting.
- **Battery Condition:** Indicates remaining battery life.
- **Numeric Display:** Provides specific values for DISC and TARGET identification.



Figure 6.1: The 3.1-inch LCD display provides clear and intuitive information during operation.

6.3 Detection Modes

- **All-Metal Mode:** Detects all types of metal without discrimination.
- **Discrimination Mode (DISC):** Allows you to ignore certain types of metal (e.g., iron) and focus on more valuable targets. Use the DISC button to adjust the discrimination range (0-80).
- **Notch Mode (NOTCH):** Similar to discrimination, but allows you to selectively ignore specific categories of junk metal while still detecting others.

6.4 Key Functions

- **Sensitivity Adjustment (SENS):** Fine-tune the detector's sensitivity to improve detection depth and reduce false signals. Adjust based on ground conditions and target size.
- **Volume Control (VOLUME):** Adjusts the audio output level.
- **Pinpoint Function (PINPOINT):** After detecting a target, use this function to precisely locate its position, making excavation easier.
- **3-Tone Audio Discrimination:** The detector emits three distinct tones (high, medium, low) to indicate different types of metal, aiding in target identification.

6.5 Using the Search Coil

When sweeping the search coil, keep it parallel to the ground and move it slowly from side to side. The 9.6-inch (245mm) waterproof search coil allows for operation in shallow water, providing stable performance.



Figure 6.2: The 240mm waterproof search coil allows for detection in shallow water.

6.6 Headphone Use

The detector includes a 3.5mm headphone jack. Connecting headphones (not included) allows you to hear subtle changes in sound more clearly, which can be crucial for identifying targets. It also helps to prevent disturbing others.

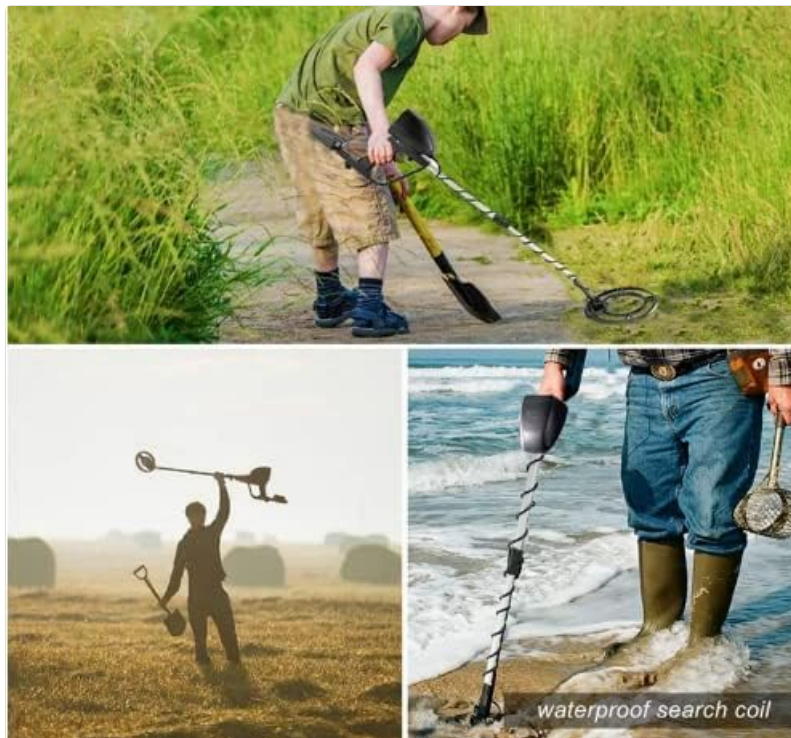


Figure 6.3: The MD-4060 is suitable for use in diverse environments such as fields and beaches.

7. MAINTENANCE

- **Cleaning:** Wipe the detector with a damp cloth after each use. Avoid abrasive cleaners or solvents. Ensure the control unit is dry before storage.
- **Storage:** Store the detector in a cool, dry place when not in use. Remove batteries if storing for extended periods to prevent leakage.
- **Battery Care:** Replace batteries when the low battery indicator appears on the LCD. Always use fresh, high-quality batteries.

8. TROUBLESHOOTING

- **No Power:** Check battery installation and ensure batteries are fresh.
- **Erratic Signals/False Alarms:** Reduce sensitivity. Ensure the search coil is not touching the ground or dense vegetation. Move away from strong electromagnetic interference sources (e.g., power lines, other electronic devices).
- **Poor Detection Depth:** Increase sensitivity. Ensure the search coil is parallel to the ground. Check battery level.
- **No Audio:** Check volume setting. If using headphones, ensure they are properly plugged in and functional.

9. SPECIFICATIONS

Model Number	MD-4060
Brand	VIHELM
Material	ABS, Metal
Power Supply	2 x 9V 6F22 Battery (Not Included)
Screen Size	71 x 40 mm (2.79 x 1.57 in)
Search Coil Size	245 mm (9.65 in)
Adjustable Height	770 - 1070 mm (30.31 - 42.13 in)
Item Weight	3 pounds (approx. 1.36 kg)
International Protection Rating	IPX7 (Waterproof Search Coil)
Product Dimensions (Control Unit)	5 x 1 x 2 inches
UPC	797427713667

10. WARRANTY AND SUPPORT

For warranty information or technical support, please refer to the contact details provided with your purchase or visit the official VIHELM website. Keep your purchase receipt as proof of purchase.