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SUNPOW OT-MD07

SUNPOW Metal Detector OT-MD07 User Manual

Model: OT-MD07 | Brand: SUNPOW

1. INTRODUCTION

Welcome to the world of metal detecting with your new SUNPOW OT-MD07 Metal Detector. This professional-grade detector is designed for high accuracy and strong anti-interference, featuring an IP68 waterproof coil and the ability to identify 9 types of metals with a detection depth of up to 10 inches. With its intuitive HD LCD display and 5 versatile detection modes, the OT-MD07 is suitable for both adults and children, making treasure hunting an enjoyable and rewarding experience. Please read this manual thoroughly before operating your device to ensure proper use and optimal performance.

2. PACKAGE CONTENTS

Upon opening your SUNPOW OT-MD07 Metal Detector package, please verify that all the following items are included:

- SUNPOW OT-MD07 Metal Detector Unit (Control Box, Adjustable Stem, Search Coil)
- Premium Digger Shovel
- Headphones
- Carrying Bag
- 2 x AA Batteries
- User Manual (this document)



Image: All components included in the SUNPOW OT-MD07 Metal Detector package, including the main unit, shovel, headphones, carrying bag, and batteries.

3. ASSEMBLY AND SETUP

Follow these steps to assemble your metal detector:

1. **Attach the Search Coil:** Connect the 10-inch search coil to the lower stem. Ensure it is securely fastened.
2. **Connect the Stems:** Insert the lower stem into the middle stem, and then connect the middle stem to the upper stem (which has the control box attached). Adjust the length to a comfortable height (between 36.2 inches and 47.2 inches) using the adjustable valve system.
3. **Secure the Control Box:** Ensure the control box is firmly attached to the upper stem.
4. **Wrap the Cable:** Carefully wrap the search coil cable around the stem, ensuring it is not too tight or loose, and plug it into the designated port on the control box.
5. **Install Batteries:** Open the battery compartment on the control box and insert the two AA batteries, observing the correct polarity.

6. **Attach Armrest:** Secure the armrest to the upper stem for comfortable operation.



Image: The adjustable stem allows for comfortable use by both adults and children, ranging from 36.2 to 47.2 inches.

COMPREHENSIVE FUNCTIONALITY



Image: Comprehensive diagram illustrating the various functional components of the metal detector, including the waterproof search coil, adjustable stem, LCD display, and ergonomic design.

4. OPERATING INSTRUCTIONS

4.1. Intuitive HD LCD Display

The control box features an intuitive HD LCD display that provides real-time information about your detection. Key indicators include:

- **Target Numeric:** Digital value indicating the type of metal.
- **Target Indicator:** Icon representing the detected metal type.
- **Battery:** Battery level indicator.
- **Sensitivity (SENS):** Adjustable sensitivity level.
- **Mode:** Current detection mode selected.
- **Volume:** Audio volume level.
- **Depth:** Estimated depth of the detected target.
- **Backlight:** Indicator for display backlight.
- **Pinpoint (PP):** Pinpoint mode indicator.

INTUITIVE LCD DISPLAY

Multifunctional & Easy to operate



Image: A close-up of the LCD display, highlighting various indicators such as target numeric, sensitivity, volume, and depth.

4.2. Detection Modes

The OT-MD07 offers 5 distinct detection modes to optimize your search for various metal types. Use the **MODE** button to cycle through them.

- **ALL METAL MODE:** Detects all types of metals. This mode is ideal for general searching when you want to find any metal object.

ALL METAL MODE

It can identify 9 kinds of metals, and will send you a signal every time a metal is detected, which meets all the needs when detecting.



Image: Visual representation of the All Metal Mode display, showing its function to detect all metal types.

- **DISC MODE (Discrimination):** Allows you to eliminate unwanted metals. Useful for filtering out junk metals like iron while searching for specific targets like coins or rings.

DISC MODE

When you are detecting, maybe you want to detect a lost ring, or a lost silver coin, then this mode can help you eliminate unwanted metals in turn to find the item you want.



Image: Visual representation of the Disc Mode display, illustrating its ability to eliminate unwanted metals.

- **NOTCH MODE:** A very handy mode where you can freely eliminate specific metal types from detection. This allows for precise targeting of desired items.

NOTCH MODE

This is a very handy mode where you can freely eliminate other metals and find the specific one you want.



Image: Visual representation of the Notch Mode display, showing how to selectively eliminate metal types.

- **VOLUME MODE:** Adjusts the audio volume of the detection signals (up to 4 levels). Different sounds are used to distinguish the properties of the metals found.

VOLUME MODE

When hunting for treasure outdoors, if the sound of the target is detected to be too small, you can adjust the sound (up to 4 levels). When detecting different metals, different sounds are used to distinguish the properties of the metals found.



Image: Visual representation of the Volume Mode display, indicating adjustable sound levels for target identification.

- **PINPOINT (PP) MODE:** Used to pinpoint the exact location of a detected target. Press the **PP** button to activate this mode once a target is detected.

PP MODE

When you find a target on a treasure hunt in a forest, beach or yard, you can press the pp mode key to pinpoint the metal you find in that area.



Image: Visual representation of the Pinpoint Mode display, used for precise target localization.

ADVANCED CHIP

Strong Anti-interference Ground Balance Function
Better eliminate the interference of micro elements in the soil



Image: An overview of the five recognition modes available on the SUNPOW metal detector, demonstrating their distinct functions for various detection scenarios.

4.3. Advanced DSP Chip

The SUNPOW OT-MD07 is equipped with an advanced DSP (Digital Signal Processing) chip. This technology significantly enhances the detector's performance by providing:

- Higher sensitivity for detecting smaller or deeper targets.
- Improved accuracy in target identification.

- Stronger anti-interference capabilities, including a ground balance function to reduce false signals from mineralized soil.
- Wider search range.



Image: A visual representation highlighting the advanced DSP chip integrated into the metal detector's control unit, emphasizing its role in enhancing detection performance.

4.4. IP68 Waterproof Search Coil

The 10-inch search coil boasts an IP68 waterproof rating, allowing you to effectively search in shallow water, along

beaches, riverbanks, and other wet environments. **Important Note: The control box is NOT waterproof. Ensure the control box remains dry at all times.**

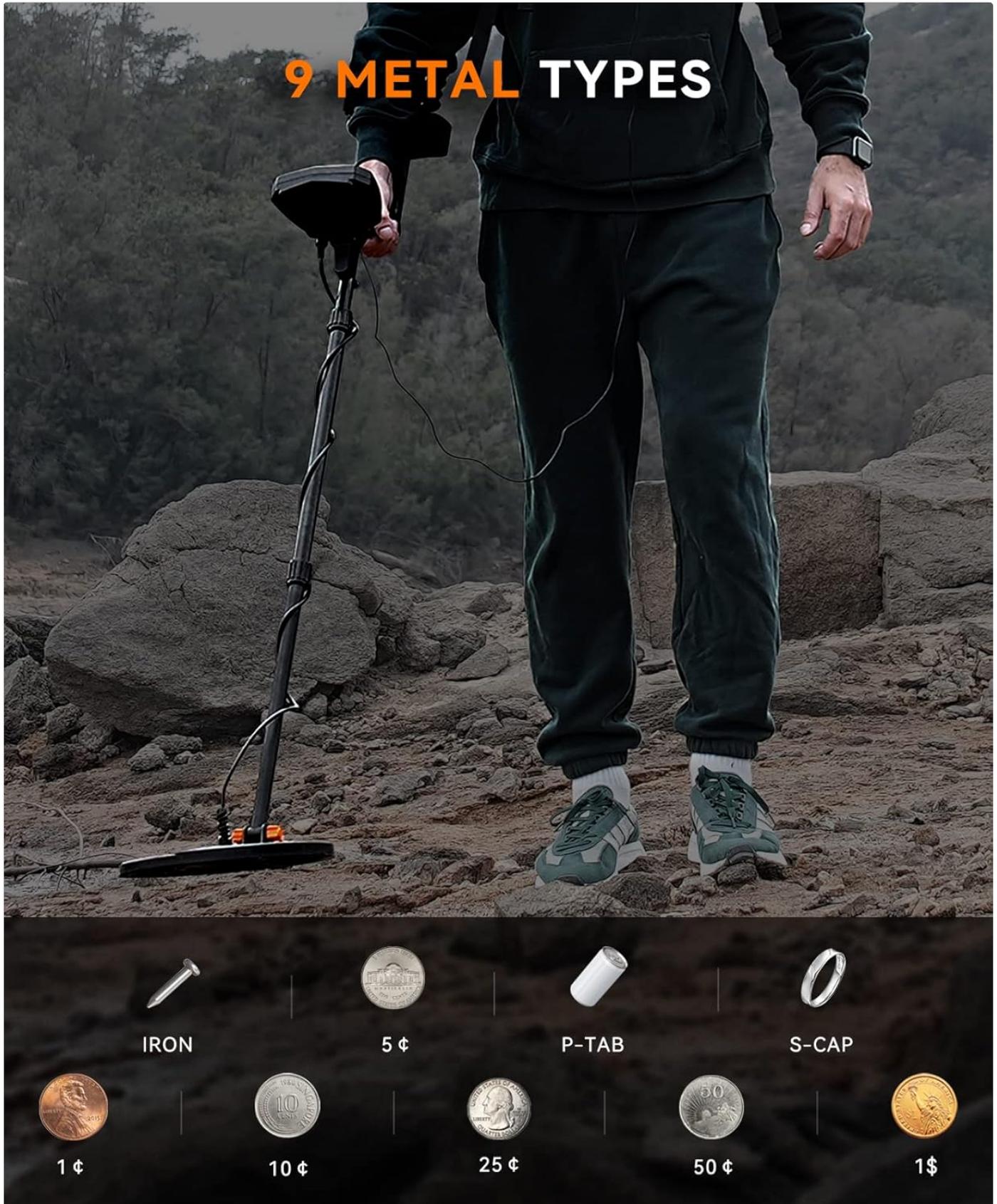


Image: A user demonstrating the use of the metal detector with its IP68 waterproof search coil in shallow water, highlighting its suitability for various terrains.

4.5. Metal Identification and Target ID

The OT-MD07 can identify 9 types of metals and provides a digital target ID value to help you distinguish between them.



Image: A visual guide to the 9 types of metal samples the detector can identify, including iron, various coins, and caps.

The Target ID (Target Numeric) on the LCD display provides a numerical value that corresponds to different metal types. Refer to the table below for common target ID ranges:

TARGET INDICATION DIGITAL VALUE

Detection Range Table



From the table, we can see the numerical value of a range of metal detection, and accurately locate the metal we want to find.

Image: Detection Range Table showing numerical values for different metal types, aiding in accurate target identification.

Target ID Detection Range

Metal Type	Target ID Range
IRON	0 - 9
5¢	10 - 19
P-TAB	20 - 29
S-CAP	30 - 39
1¢	40 - 54
10¢	55 - 64
25¢	65 - 79
50¢	80 - 89
1USD	90 - 99

5. MAINTENANCE

Proper maintenance will extend the life and performance of your metal detector.

- **Cleaning:** After each use, especially in sandy or muddy conditions, wipe down the search coil and stem with a damp cloth. Avoid using abrasive cleaners or solvents.
- **Control Box Care:** Keep the control box dry and clean. Do not submerge it in water. If it gets wet, dry it immediately.
- **Battery Storage:** Remove batteries if the detector will not be used for an extended period to prevent leakage and damage.
- **Storage:** Store the detector in a cool, dry place, away from direct sunlight and extreme temperatures. Use the provided carrying bag for protection.
- **Cable Inspection:** Periodically check the cable connecting the coil to the control box for any signs of wear or damage.

6. TROUBLESHOOTING

If you encounter issues with your SUNPOW OT-MD07, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
No power/Display off	Dead or incorrectly installed batteries.	Replace batteries with fresh ones, ensuring correct polarity.
Constant false signals/Chattering	High sensitivity setting, electromagnetic interference, or highly mineralized ground.	Reduce sensitivity. Move away from power lines, cell phones, or other electronic devices. Perform ground balance if available (DSP chip assists with this).
Poor detection depth	Low battery, incorrect mode, or highly mineralized ground.	Check battery level. Ensure you are in ALL METAL mode for maximum depth. Adjust ground balance.
Inaccurate target identification	Target too deep, multiple targets, or interference.	Sweep slower and closer to the ground. Use PINPOINT mode for precise location. Try different modes (DISC/NOTCH) to isolate targets.
No sound from headphones	Headphones not plugged in correctly, faulty headphones, or volume too low.	Ensure headphones are fully plugged in. Test with another pair of headphones. Increase volume in VOLUME MODE.

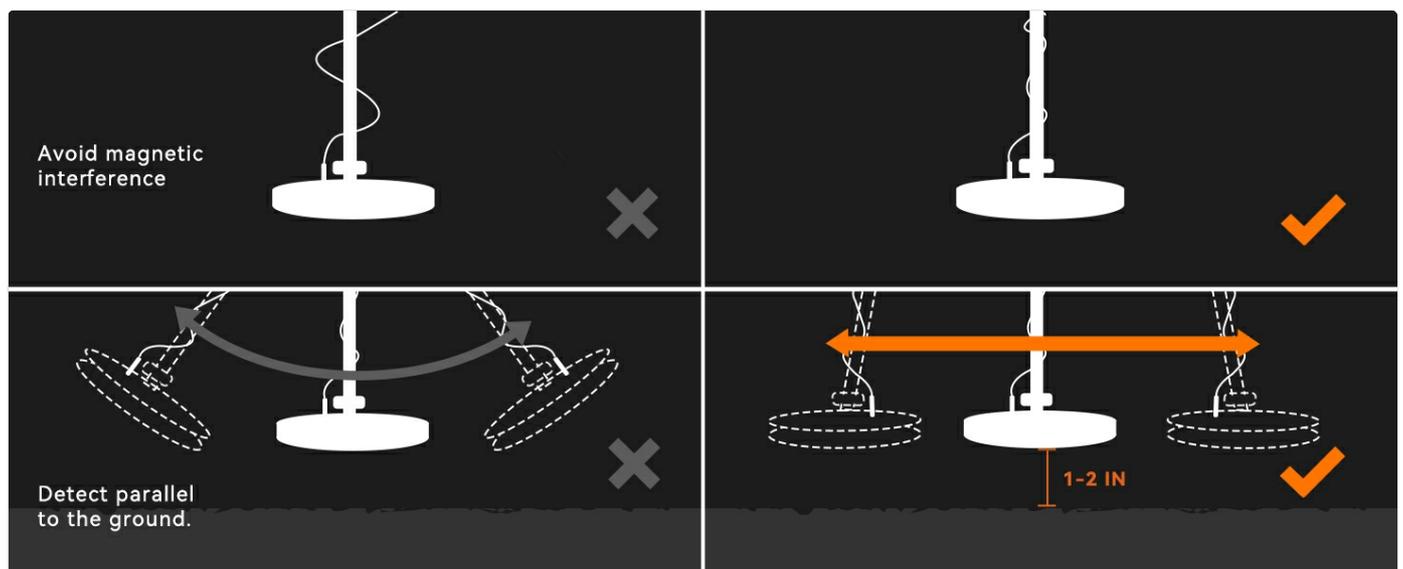


Image: Important tips for optimal metal detector performance, including avoiding magnetic interference and maintaining a consistent sweep parallel to the ground.

7. SPECIFICATIONS

Feature	Detail
Model Number	OT-MD07
Product Dimensions	27.94 x 13.97 x 44.91 cm
Item Weight	1 kg
Material Type	Metal
Power Source	Battery Powered (2 x AA batteries)
Search Coil	10-inch, IP68 Waterproof

Feature	Detail
Detection Depth	Up to 10 inches
Adjustable Length	36.2 inches to 47.2 inches
Display	HD LCD with Backlight
Detection Modes	ALL METAL, DISC, NOTCH, VOLUME, PINPOINT
Metal Identification	9 types of metals
Special Features	Advanced DSP Chip, Ground Balance Function

8. SAFETY INFORMATION

Please observe the following safety precautions:

- **The control box is NOT waterproof.** Avoid exposing it to water or moisture.
- Do not use the metal detector near live electrical wires or in areas with known underground utilities without proper safety checks.
- Always obtain permission before metal detecting on private property.
- Be aware of local regulations regarding metal detecting in public areas, parks, or historical sites.
- Exercise caution when digging to avoid injury or damage to property.
- Keep batteries out of reach of children and dispose of them properly.

9. WARRANTY AND SUPPORT

For warranty information, technical support, or any inquiries regarding your SUNPOW OT-MD07 Metal Detector, please refer to the contact details provided with your purchase or visit the official SUNPOW website. Keep your purchase receipt as proof of purchase for warranty claims.