

SUNPOW OT-MD04-US

SUNPOW OT-MD04-US Metal Detector Instruction Manual

Model: OT-MD04-US | Brand: SUNPOW

1. INTRODUCTION

Thank you for choosing the SUNPOW OT-MD04-US Metal Detector. This device is designed for efficient and accurate metal detection, suitable for various environments and users. It features advanced technology to enhance your treasure hunting experience. Please read this manual thoroughly before operating the device to ensure proper use and optimal performance.

2. PRODUCT FEATURES

- **10-inch Detection Depth:** Equipped with an upgraded DSP chip for higher sensitivity, allowing detection up to 10 inches deep.
- **High Accuracy:** Utilizes integrated circuits and an improved chip algorithm to prevent target loss due to fast detection rates and offers strong anti-interference capabilities.
- **5 Detection Modes:** Offers versatile detection with All Metal, DISC, Notch, Pinpoint, and Volume modes.
- **Adjustable Design:** The stem can be adjusted from 36 to 47 inches, making it suitable for both adults and children. It is lightweight and portable for easy transport.
- **IP68 Waterproof Search Coil:** The 10-inch search coil is fully waterproof, enabling use in shallow water, along shorelines, or in damp conditions. *Note: The control box is not waterproof and must be kept dry.*



Figure 1: The SUNPOW OT-MD04-US Metal Detector.

3. PACKAGE CONTENTS

The standard package includes the following items:

- 1x SUNPOW Metal Detector (OT-MD04-US)
- 1x Earphone
- 1x Multi-kinetic Shovel
- 1x User Manual
- 2x 9V Batteries
- 1x Carrying Bag

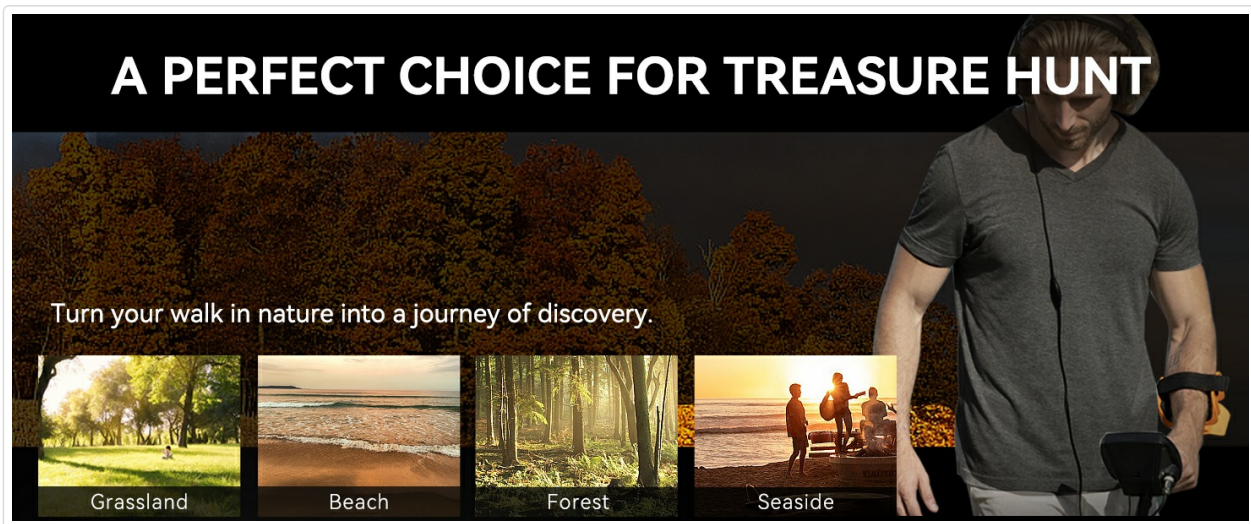


Figure 2: Included accessories for easy travel and use.

4. ASSEMBLY AND SETUP

Follow these steps to assemble your metal detector:

1. Connect the search coil to the lower stem.
2. Attach the lower stem to the middle stem, then connect the middle stem to the upper stem (control box assembly).
3. Secure all connections firmly.
4. Insert the 9V batteries into the control box compartment.
5. Adjust the stem length to a comfortable height (36 to 47 inches) using the adjustment locks.
6. Wrap the cable around the stem and connect it to the control box.
7. Attach the armrest to the upper stem for ergonomic support.

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Video 1: Demonstration of SUNPOW metal detector assembly and usage for adults and kids.

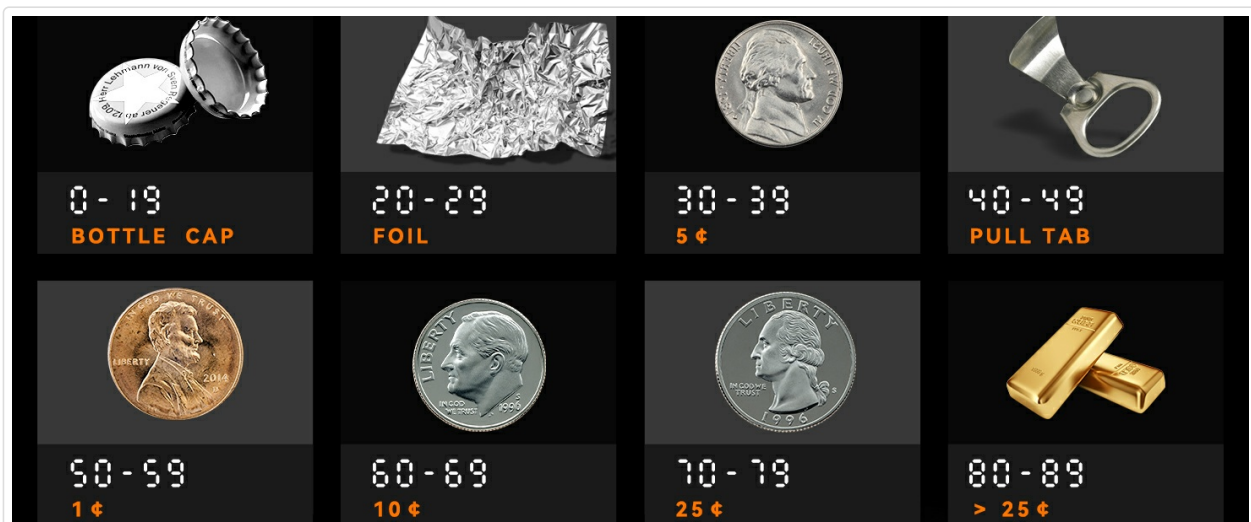


Figure 3: Key components and adjustable features of the metal detector.

5. OPERATING MODES

The SUNPOW OT-MD04-US offers five distinct detection modes to suit various treasure hunting needs:

- **All Metal Mode:** Detects all types of metal. This mode is ideal for general searching when you want to find any metallic object without discrimination. The detector will signal upon detecting any metal.
- **DISC Mode (Discrimination):** Allows you to eliminate unwanted metal targets in sequence. You can progressively filter out common trash items like bottle caps, foil, 5-cent coins, and pull tabs, focusing on more valuable finds.
- **Notch Mode:** Provides advanced discrimination by allowing you to freely select and ignore specific categories of unwanted objects (foil, 5-cent coins, pull tabs, 1-cent coins). This helps in ignoring garbage while searching for desired items.
- **Pinpoint Mode (PP Mode):** Used to precisely locate the exact position of a detected target. Once a target is found in another mode, switch to Pinpoint mode to narrow down its location for easier recovery.
- **Volume Mode:** Adjusts the audio response based on the metal properties. Different metals may produce different sound tones, aiding in identification.

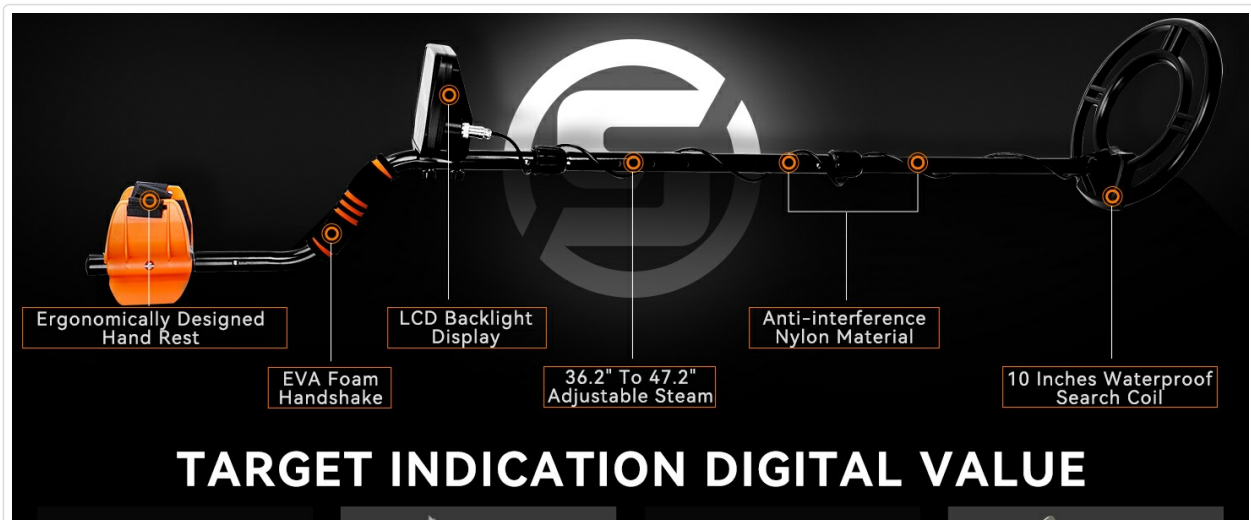


Figure 4: Overview of the 5 detection modes.

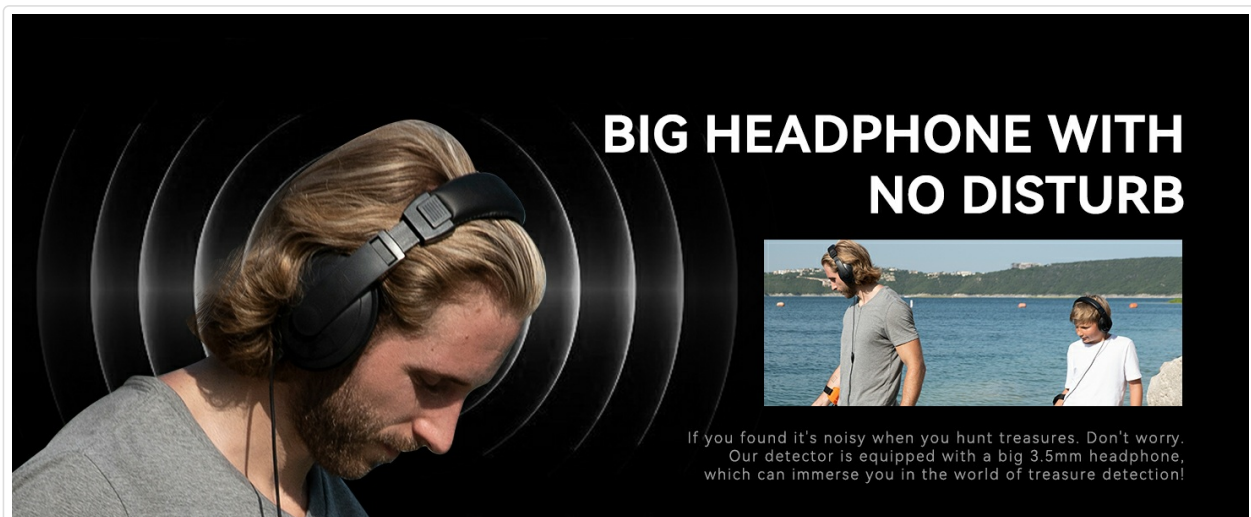


Figure 5: All Metal Mode interface.

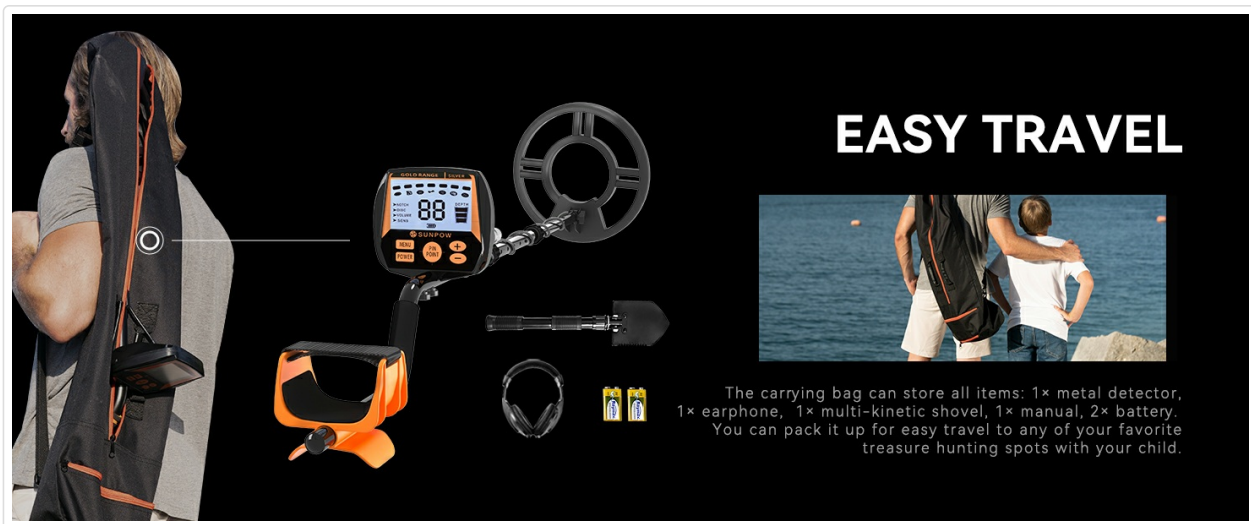


Figure 6: DISC Mode interface.

6. DISPLAY INTERFACE

The intuitive LCD display provides essential information for effective metal detection:

- **Menu Indicator:** Shows the currently selected mode or setting.
- **Target Digital:** Displays a numerical ID for the detected target, helping to identify the type of metal.
- **Target ID:** Categorizes the detected metal (e.g., Gold Range, Silver).
- **Coin Depth Indicator:** Estimates the depth of the detected object.
- **Low Battery Indicator:** Alerts you when batteries need replacement.
- **Controls:** Dedicated buttons for Power, Menu, Pinpoint, Increase (+), and Decrease (-).

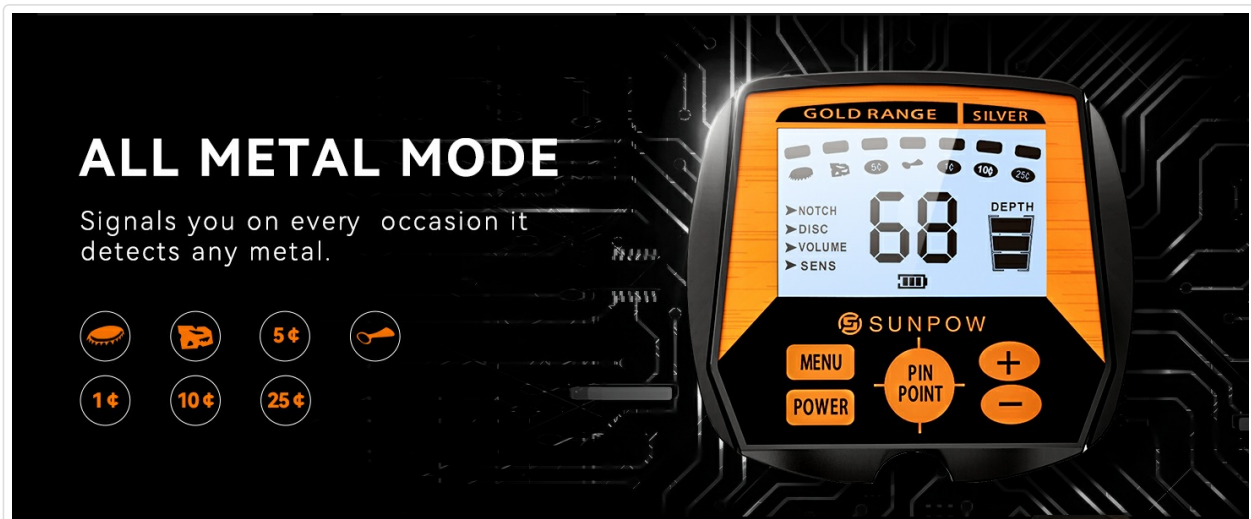


Figure 7: Intuitive LCD Display layout.



Figure 8: Target Indication Digital Values.



Figure 9: Adjustable Volume Types.

7. USAGE TIPS

- **Waterproof Search Coil:** The 10-inch search coil is IP68 waterproof, allowing for detection in shallow streams, along the surf, or in dewy grass. Always ensure the control box remains dry.
- **Enhanced Depth:** The upgraded DSP chip provides a 10-inch detection depth, increasing the likelihood of finding deeper targets.
- **Optimal Environments:** The detector performs well in various outdoor settings, including grasslands, beaches, forests, and seaside areas.
- **Low Light Conditions:** The control panel features a backlight function, enabling comfortable use day or night.
- **Audio Feedback:** Use the included headphones for clear audio signals, especially in noisy environments, to better distinguish between different metal types.

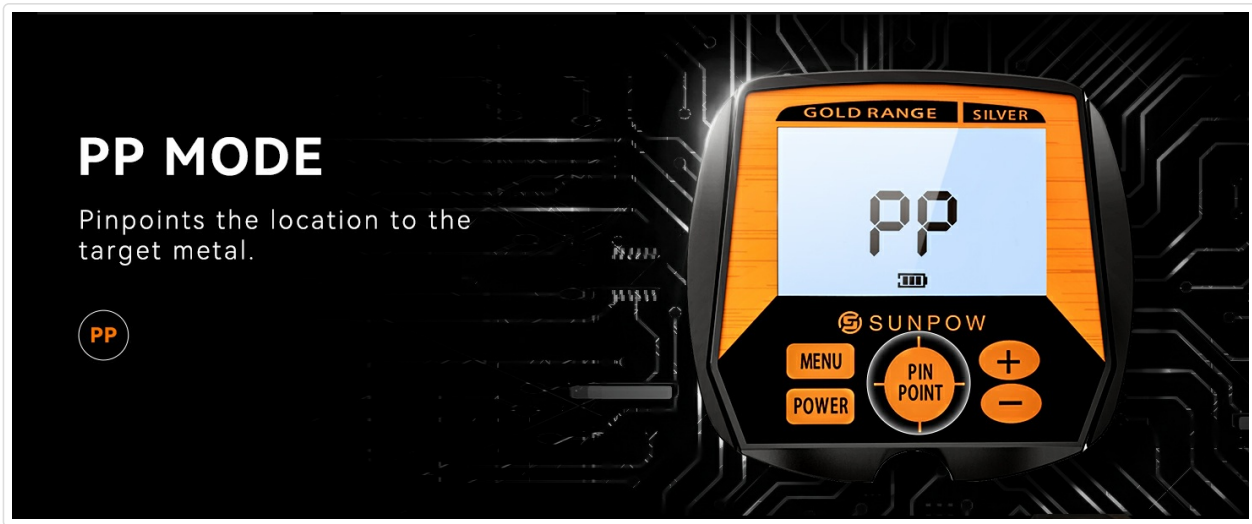


Figure 10: The IP68 waterproof search coil in action.

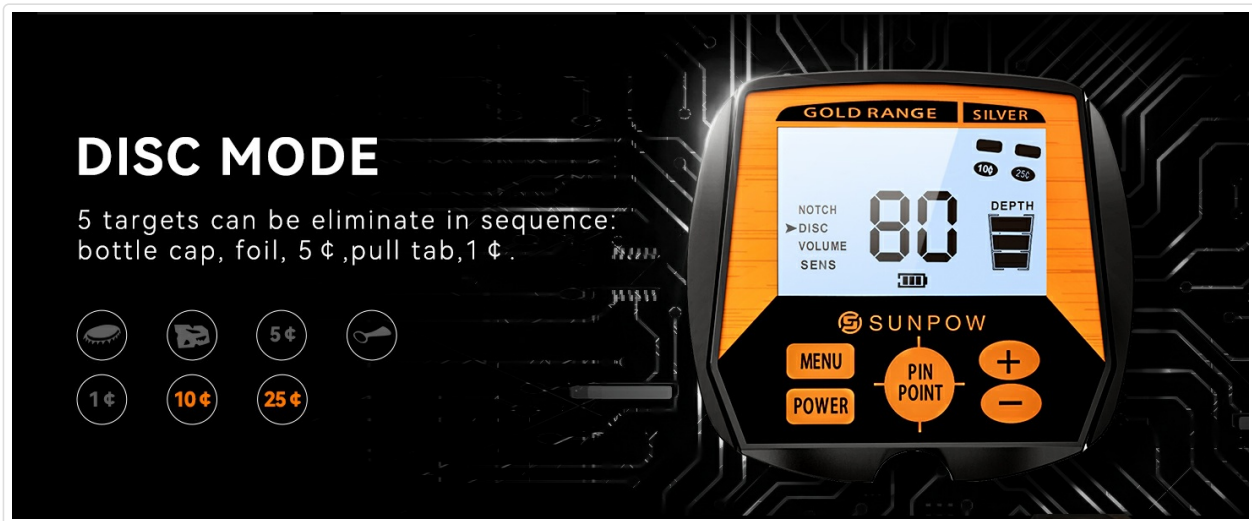


Figure 11: Deeper detection capability.



Figure 12: Versatile use in different environments, with backlight and headphone features.

8. MAINTENANCE

- After each use, wipe down the search coil and stem with a damp cloth to remove dirt and debris.
- Ensure the control box remains dry at all times. If it gets wet, dry it immediately.
- Store the metal detector in a dry, cool place, away from direct sunlight and extreme temperatures.

- Remove batteries if the detector will not be used for an extended period to prevent leakage.
- Regularly check all connections for tightness and wear.

9. TROUBLESHOOTING

If you encounter issues with your SUNPOW metal detector, consider the following:

- **No Power:** Check if the batteries are correctly inserted and fully charged. Replace with new batteries if necessary.
- **Erratic Signals/False Alarms:** Ensure the search coil cable is securely connected. Try reducing the sensitivity setting. Move away from sources of electromagnetic interference (e.g., power lines, other electronic devices).
- **No Detection:** Verify that the detector is turned on and in an appropriate detection mode (e.g., All Metal Mode). Ensure the search coil is parallel to the ground and being swept correctly.
- **Inaccurate Depth Reading:** Depth readings are estimates. Ensure proper ground balance if applicable (this model does not explicitly mention ground balance, but it's a general tip for metal detectors).

For further assistance, please contact SUNPOW customer support.

10. SPECIFICATIONS

Feature	Detail
Brand	SUNPOW
Model Number	OT-MD04-US
Color	Black & Yellow
Material	Metal
Batteries Required	Yes (2x 9V)
Display Type	Digital
Search Coil	10-inch, IP68 Waterproof
Detection Depth	Up to 10 inches
Adjustable Stem Length	36 to 47 inches

11. WARRANTY AND SUPPORT

Each SUNPOW product undergoes strict quality inspection. SUNPOW provides a lifetime warranty for this product. For any inquiries, technical support, or warranty claims, please contact SUNPOW customer service through the retailer where you purchased the product or visit the official SUNPOW website for contact information.

