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## SUNPOW OT-MD04

# SUNPOW Metal Detector User Manual

Model: OT-MD04

Brand: SUNPOW

## INTRODUCTION

This manual provides detailed instructions for the assembly, operation, and maintenance of your SUNPOW Metal Detector. Designed for both adults and youth, this professional-grade metal detector offers high accuracy and multiple detection modes for an enhanced treasure hunting experience. Please read this manual thoroughly before using the device to ensure proper function and safety.

## SAFETY INFORMATION

- Always obtain permission before searching on private property.
- Avoid searching in areas where underground utilities (cables, pipes) may be present.
- Exercise caution when digging to prevent injury or damage to property.
- The control box is not waterproof. Avoid exposing it to water or moisture.
- Dispose of batteries responsibly according to local regulations.

## PACKAGE CONTENTS

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

- SUNPOW Metal Detector Unit (Control Box, S-Stem, Middle Stem, Bottom Stem, Search Coil)
- Headphones
- Multi-kinetic Shovel
- Carrying Bag
- 9V Batteries (2 required)
- User Manual (this document)



Image: All components of the SUNPOW Metal Detector kit, including the main unit, headphones, shovel, and batteries.

## ASSEMBLY INSTRUCTIONS

Follow these steps to assemble your SUNPOW Metal Detector:

**1. Step 1: Connect the bottom stem and search coil.**

Securely attach the bottom stem to the search coil using the provided fasteners.



Image: A person connecting the bottom stem to the search coil of the metal detector.

**2. Step 2: Loosen the lock nut on the middle stem.**

Prepare the middle stem for connection by loosening its lock nut.

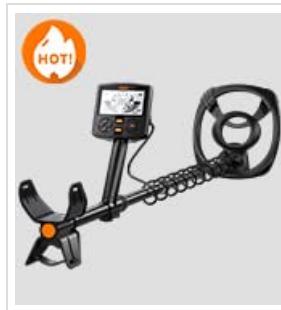


Image: A person loosening the lock nut on the middle stem of the metal detector.

**3. Step 3: Connect the bottom stem and the middle stem.**

Slide the bottom stem into the middle stem and secure it.

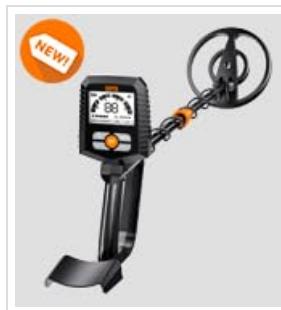


Image: A person connecting the bottom stem to the middle stem of the metal detector.

**4. Step 4: Press the button on the middle stem and slide the middle stem into the S stem. Then tighten the lock nut on the stem.**

Insert the middle stem into the S-shaped upper stem and tighten the lock nut to secure the connection.



Image: A person connecting the middle stem to the S-stem and tightening the lock nut.

**5. Step 5: Fix the control box on the S stem and tighten the fixing screw properly.**

Mount the control box onto the S-stem and ensure the fixing screw is tightened for stability.



Image: A person fixing the control box onto the S-stem of the metal detector.

**6. Step 6: Press the button on the top stem, and slide the top stem into the S stem.**

Insert the top stem, which includes the armrest, into the S-stem.



Image: A person sliding the top stem with the armrest into the S-stem.

#### 7. Step 7: Adjust the length of the pole to relax your arms.

Adjust the overall length of the metal detector to a comfortable position for extended use, ensuring arm relaxation.



Image: A person adjusting the length of the metal detector pole to fit their arm comfortably.

#### 8. Step 8: Wrap the search coil cable around the pole and insert the cable plug.

Neatly wrap the search coil cable around the assembled pole and plug it into the control box.



Image: A person wrapping the search coil cable around the pole and plugging it into the control unit.

### Assembly Video Guide

[REDACTED]

Video: A step-by-step guide demonstrating the assembly process of the SUNPOW metal detector.

### OPERATING MODES

The SUNPOW Metal Detector features 5 distinct detection modes to suit various searching conditions and target preferences:

# DEEPER DETECTION DEPTH THAN OTHERS



Image: Detailed view of the metal detector's intuitive LCD display, showing indicators for menu, target digital, target ID, low battery, and coin depth.

- **All Metal Mode**

In this mode, the detector will identify all types of metal. It is ideal for general searching when you want to detect any metallic object without discrimination. This mode offers the deepest detection depth.



## LIGHT UP THE NIGHT

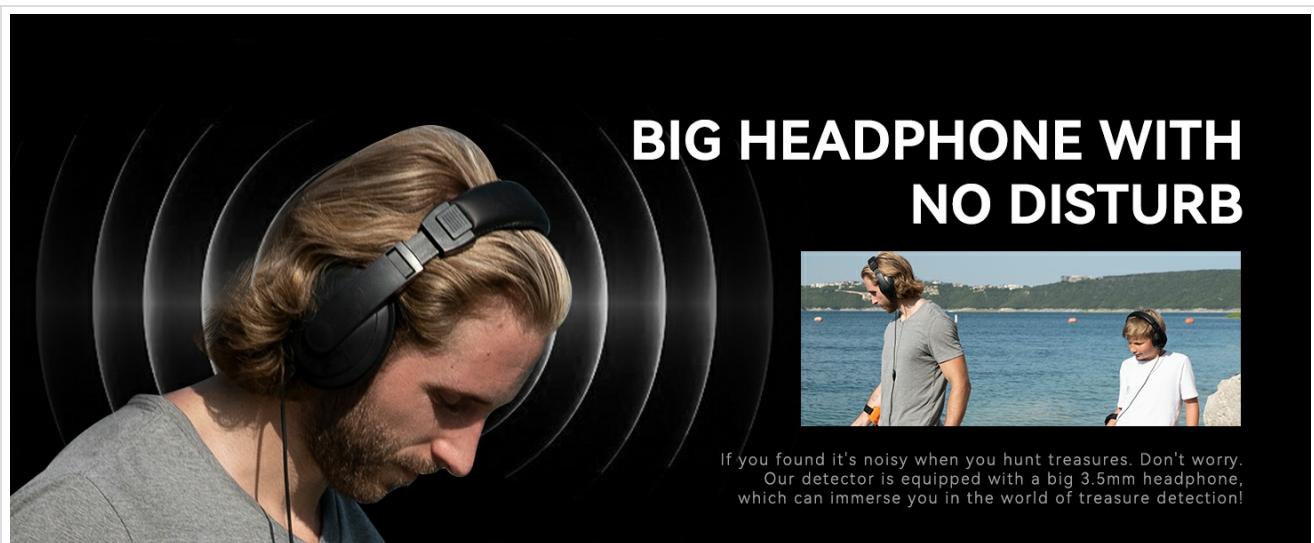


The OT-MD04 metal detector of SUNPOW comes with a backlight function, so you can use it in day and night without any worries. Won't miss any signal of treasure. Enjoy the fun of detection!

Image: The LCD display showing "All Metal Mode" active, with icons representing various metal types that can be detected.

- **DISC Mode (Discrimination)**

DISC mode allows you to eliminate unwanted metal types from detection. You can sequentially eliminate common trash items like bottle caps, foil, 5¢ coins, pull tabs, and 1¢ coins. This helps focus on more valuable targets.



If you found it's noisy when you hunt treasures. Don't worry. Our detector is equipped with a big 3.5mm headphone, which can immerse you in the world of treasure detection!

Image: The LCD display showing "DISC Mode" active, with icons indicating which metal types are being discriminated against.

- **Notch Mode**

Notch mode provides more precise discrimination. You can freely select and ignore specific categories of unwanted objects, such as foil, 5¢ coins, pull tabs, and 1¢ coins, allowing for targeted searching.

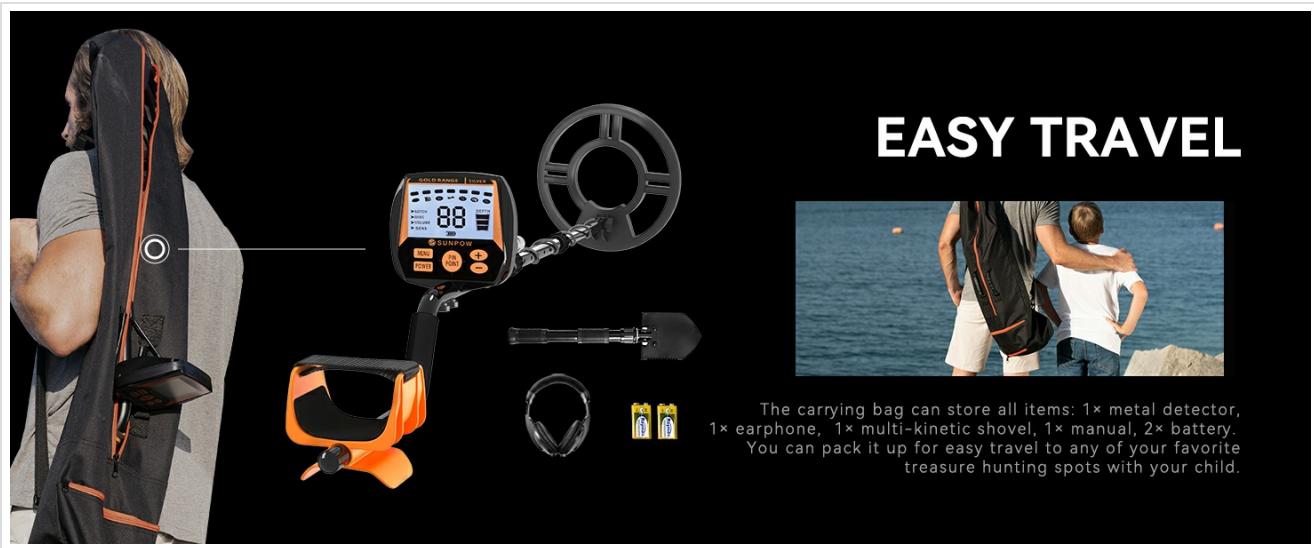


Image: The LCD display showing "Notch Mode" active, highlighting the ability to freely discriminate against specific metal categories.

- **Pinpoint Mode**

This mode helps to accurately 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 before digging.



Image: The LCD display showing "PP Mode" (Pinpoint Mode), indicating its function to precisely locate targets.

- **Volume Mode**

This mode allows adjustment of the audio volume. The detector provides different tones based on the type of metal detected, with adjustable volume levels for user preference.

# 3 ADJUSTABLE VOLUME TYPES

Target Id  
1-19



Low pitched  
signal

Target Id  
20-59



Moderate to  
high signals

Target Id  
60-99



Unique ringtone  
signal



Image: The LCD display illustrating three adjustable volume types, corresponding to low, moderate, and unique ringtone signals for different target IDs.

## KEY FEATURES AND FUNCTIONS

- **10" Deeper Detection Depth**

Equipped with an upgraded DSP chip, this metal detector offers higher sensitivity, allowing it to detect objects up to 10 inches deep in All Metal mode, which is deeper than many standard detectors.

# INTUITIVE LCD DISPLAY



Image: A visual comparison illustrating the SUNPOW metal detector's 10-inch detection depth versus a typical 6-inch depth of other detectors.

- **Higher Accuracy with DSP Chip**

The latest integrated circuits and DSP chip enhance the algorithm's efficiency, providing strong anti-interference capabilities for more precise and efficient detection, preventing target loss even with fast detection rates.

# UPGRADE DSP CHIP--BETTER ACCURACY

Detection depth increased by 30%.

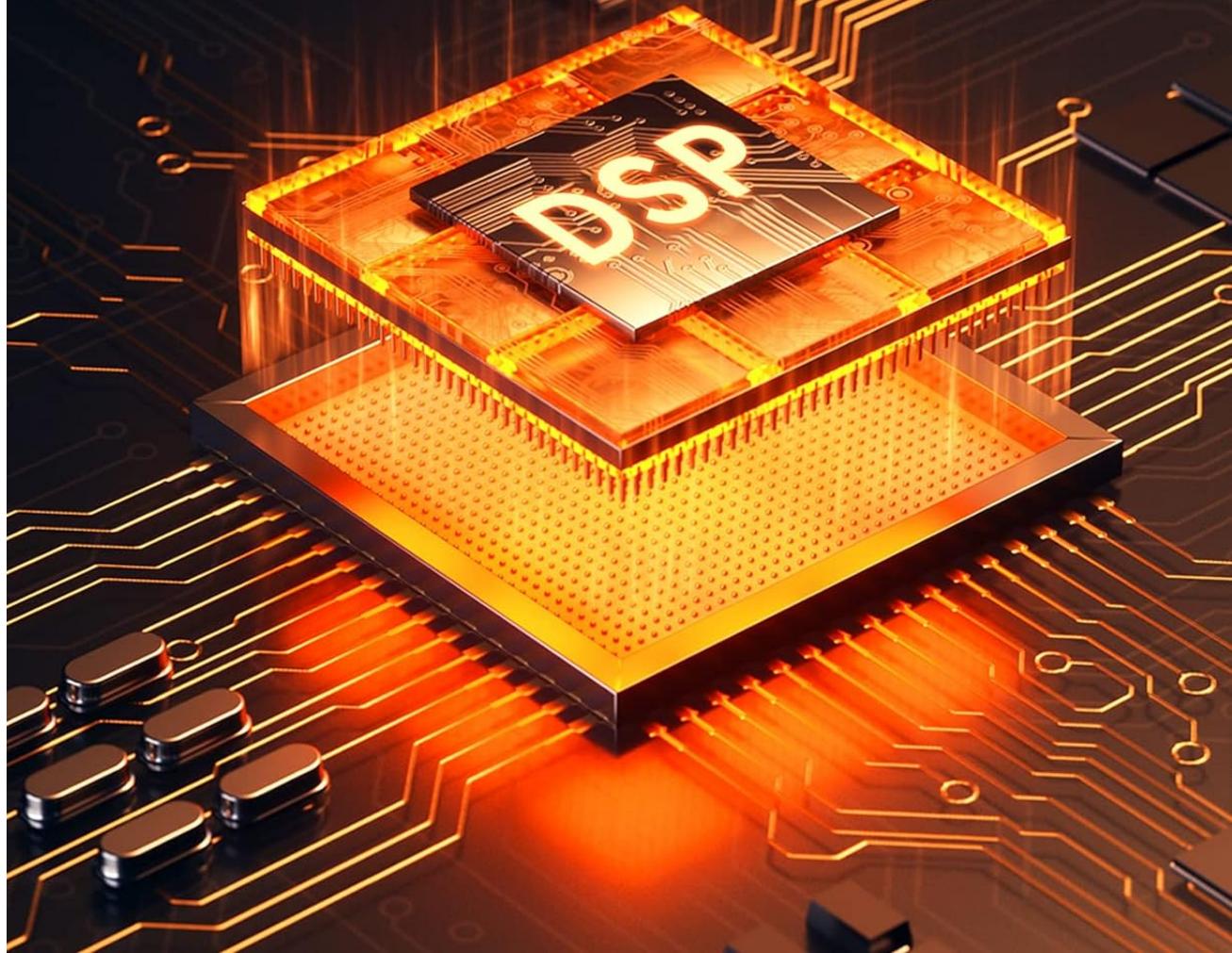


Image: A graphic highlighting the "Upgrade DSP Chip" for better accuracy, indicating a 30% increase in detection depth.

- **Adjustable Design for All Ages**

The metal detector features a height-adjustable stem, ranging from 36.2" to 47.2", making it suitable for both children and adults. This ergonomic design ensures comfortable use for various users.

# 10 INCH IP68 WATERPROOF SEARCH COIL

Note: The control box is not waterproof



Image: An illustration of the metal detector's ergonomic design, highlighting features like the hand rest, LCD display, adjustable stem (36.2" to 47.2"), anti-interference nylon material, and 10-inch waterproof search coil.

- **IP68 Waterproof Search Coil**

The 10-inch search coil is IP68 waterproof, allowing for effective detection in shallow water environments such as beaches and streams. **Note: The control box is not waterproof and must be kept dry.**

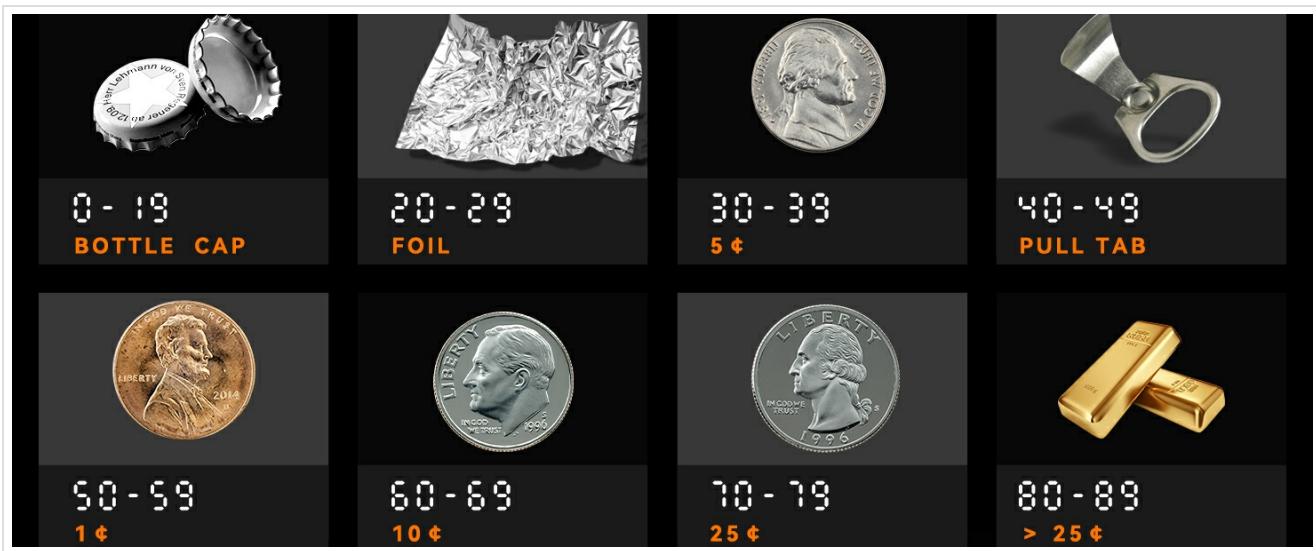


Image: The 10-inch IP68 waterproof search coil submerged in water, with a note indicating that the control box is not waterproof.

- **Target Indication Digital Value**

The LCD display provides digital values to indicate the type of metal detected, helping users identify targets before digging. Different ranges correspond to different metal types (e.g., 0-19 for bottle caps, 80-89 for gold bars).



Image: A chart showing target indication digital values for various metal objects, including bottle caps, foil, 5¢, pull tabs, 1¢, 10¢, 25¢, and gold bars.

- **Backlight Function for Night Use**

The OT-MD04 metal detector includes a backlight function on its LCD display, allowing for clear visibility and use in low-light conditions or at night.



## DISC MODE

5 targets can be eliminated in sequence:  
bottle cap, foil, 5¢, pull tab, 1¢.



Image: The metal detector's LCD display illuminated by a backlight, demonstrating its usability in dark environments.

- **Headphone Compatibility**

The detector is equipped with a 3.5mm headphone jack, allowing for private listening of detection signals and minimizing external distractions, enhancing focus during treasure hunting.



## NOTCH MODE

Freely discriminate against the 4 categories of foil, 5¢, pull tab and 1¢.

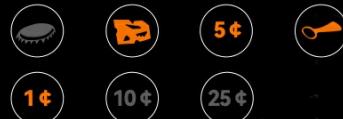


Image: A person wearing headphones while using the metal detector, illustrating the "Big Headphone with No Disturb" feature for focused detection.

- **Portable Design with Carrying Bag**

The kit includes a carrying bag designed to store all components, making it easy to transport the metal detector to various treasure-hunting locations.

## PP MODE

Pinpoints the location to the target metal.

PP



Image: A person carrying the metal detector in its included carrying bag, emphasizing the "Easy Travel" feature.

## MAINTENANCE

- Clean the search coil and stem with a damp cloth after each use, especially after use in wet or sandy conditions.
- Ensure the control box remains dry. If it gets wet, dry it immediately with a soft cloth.
- Remove batteries if the detector will not be used for an extended period to prevent leakage.
- Store the metal detector in its carrying bag in a cool, dry place away from direct sunlight and extreme temperatures.

## TROUBLESHOOTING

Problem	Possible Cause	Solution
No power/Detector does not turn on.	Batteries are dead or incorrectly installed.	Replace with fresh 9V batteries, ensuring correct polarity.
Erratic signals or false positives.	High mineral content in soil, electromagnetic interference, or loose cable connection.	Adjust sensitivity, use DISC or Notch mode, move away from power lines/electronics, ensure search coil cable is tightly connected.
No detection or weak signals.	Low battery, incorrect mode, or sensitivity too low.	Check/replace batteries, switch to All Metal mode, increase sensitivity.
Display not working.	Low battery or connection issue.	Replace batteries. If problem persists, contact customer support.

## SPECIFICATIONS

Brand	SUNPOW
Model Number	OT-MD04
Color	Black Orange
Material	Metal

<b>Power Source</b>	Battery Powered
<b>Batteries Required</b>	Yes (2 x 9V batteries)
<b>Item Weight</b>	2.8 Kilograms (6.16 pounds)
<b>Product Dimensions</b>	11.22" L x 6.3" W x 16.93" H
<b>Extended Length</b>	47.2 Inches
<b>Adjustable Length</b>	Yes
<b>International Protection Rating</b>	IP68 (Search Coil only)
<b>Operating Frequency</b>	7 KHz
<b>Recommended Uses</b>	Metal Detection
<b>Display Type</b>	LCD
<b>Number of Programs</b>	5
<b>Manufacturer</b>	SUNPOW
<b>UPC</b>	796345961518

## WARRANTY AND SUPPORT

SUNPOW offers a lifetime warranty system for this product, ensuring excellent quality and superior customer service. For any inquiries or support needs, please refer to the official user manual PDF or contact SUNPOW customer service.

Official User Manual (PDF): [Download PDF](#)