

SUNPOW OTMD14

SUNPOW OTMD14 Metal Detector User Manual

Model: OTMD14 | Brand: SUNPOW

1. INTRODUCTION

This manual provides comprehensive instructions for the assembly, operation, maintenance, and troubleshooting of your SUNPOW OTMD14 Metal Detector. Designed for both professional and recreational use, this detector features high accuracy, multiple detection modes, and a durable, adjustable design. Please read this manual thoroughly before using the device to ensure optimal performance and longevity.

2. WHAT'S INCLUDED

Upon unboxing, please verify that all components listed below are present and in good condition:

- SUNPOW OTMD14 Metal Detector Unit (Control Box, Adjustable Stem, Search Coil)
- 12-inch Waterproof Search Coil
- Headphones
- Folding Shovel Tool
- Carry Bag
- Batteries (Quantity: 2)
- Owner's Manual



Figure 2.1: Complete SUNPOW OTMD14 Metal Detector package contents.

3. SETUP

Follow these steps to assemble your metal detector:

1. **Attach the Search Coil:** Secure the 12-inch waterproof search coil to the lower stem using the provided bolt and knob. Ensure it is firmly attached but allows for slight angle adjustment.
2. **Assemble the Stem:** Connect the middle stem to the lower stem. The OTMD14 features a robust spiral structure for enhanced stability and a convenient quick-lock design for fast installation.
3. **Attach the Control Box:** Slide the control box onto the upper stem. The design allows for a customizable control box position for comfortable operation.
4. **Adjust Handle and Length:** Adjust the handle position and the overall length of the detector (ranging from 19 to 59 inches) to suit your height and comfort. The ergonomically designed hand rest ensures comfortable use during

extended periods.

5. **Connect Cables:** Carefully route the search coil cable along the stem and plug it into the designated port on the control box. Ensure a secure connection.
6. **Install Batteries:** Open the battery compartment on the control box and insert the two provided batteries, observing the correct polarity.

Your browser does not support the video tag.

Video 3.1: Installation tutorial for the SUNPOW OTMD14 Metal Detector, demonstrating assembly steps.



Figure 3.1: Illustration of the metal detector's new structure design, highlighting the durable helical structure and convenient locking mechanism for easy assembly.



Figure 3.2: Customizable features of the metal detector, including adjustable stem length, handle position, and control box placement for user comfort.

4. OPERATING INSTRUCTIONS

The SUNPOW OTMD14 features a user-friendly interface with a large backlit LCD and intuitive controls. Familiarize yourself with the display and modes for effective treasure hunting.

4.1. Control Panel Overview



Figure 4.1: The control panel features a large 2x backlit LCD display and a symmetrical game controller design for easy visibility and control.

- **POWER Button:** Press to turn the detector ON/OFF.

- **MODE Button:** Cycles through the five detection modes.
- **SENS (+/-) Buttons:** Adjusts sensitivity levels. Higher sensitivity increases detection depth but may also increase false signals.
- **VOL (+/-) Buttons:** Adjusts the volume of the audio alerts.
- **PP (Pinpoint) Button:** Activates pinpoint mode for precise location of detected targets.

4.2. Detection Modes

The OTMD14 offers 5 distinct detection modes to optimize your search for various metal types:

- **All Metal Mode:** Detects all types of metal without discrimination. Ideal for general searching and finding a wide variety of targets.
- **Disc Mode:** Allows you to eliminate unwanted metal targets (e.g., iron trash) in sequence, focusing on more valuable finds.
- **Jewelry Mode:** Specifically tuned to focus on finding jewelry, such as rings, bracelets, and necklaces.
- **Memory Mode:** Explores only the remembered metals, allowing you to save and recall specific target types for future searches.
- **PP Mode (Pinpoint):** Enables you to pinpoint the exact location of a detected target, making recovery easier and more precise.



Figure 4.2: Visual representation of the five detection modes and their primary functions.

4.3. General Operation Tips

- Sweep the search coil slowly and steadily, keeping it parallel to the ground.
- Listen for changes in the audio tone and observe the LCD display for target identification and depth readings.
- The 12-inch search coil has an IP68 waterproof rating, allowing for use in shallow water (Note: the control box is not waterproof).

5. MAINTENANCE

Proper maintenance ensures the longevity and performance of your metal detector:

- **Cleaning:** After each use, wipe down the search coil and stem with a damp cloth to remove dirt, sand, or salt residue. Do not submerge the control box in water.
- **Storage:** Store the detector in a cool, dry place, away from direct sunlight and extreme temperatures. Utilize the provided carry bag for protection during transport and storage.
- **Battery Care:** Remove batteries if the detector will not be used for an extended period to prevent leakage and damage.
- **Coil Protection:** Consider using a coil cover (if available) to protect the search coil from scratches and abrasions.

6. TROUBLESHOOTING

If you encounter issues with your metal detector, refer to the following common troubleshooting tips:

Problem	Possible Cause	Solution
No Power	Dead or incorrectly installed batteries.	Replace batteries with fresh ones, ensuring correct polarity.
False Signals / Chattering	High sensitivity, electromagnetic interference, or mineralized ground.	Reduce sensitivity. Move away from power lines or other electronic devices. Try adjusting ground balance if available (not explicitly stated for this model, but a general tip).
No Detection	Low sensitivity, disconnected coil, or no metal present.	Increase sensitivity. Check coil cable connection. Test with a known metal object.
Display Not Working	Battery issue or internal fault.	Check/replace batteries. If problem persists, contact customer support.

7. SPECIFICATIONS

Feature	Detail
Brand	SUNPOW
Model Number	OTMD14

Feature	Detail
Color	OTMD14-Black
Search Coil Size	12 Inches
International Protection Rating	IP68 (Search Coil only)
Adjustable Length	19 - 59 Inches
Display Type	Backlit LCD
Number of Programs/Modes	5
Power Source	Battery Powered
Item Weight	6.6 pounds (3 Kilograms)
Materials	Metal, Acrylonitrile Butadiene Styrene

8. WARRANTY & SUPPORT

SUNPOW stands behind the quality of its products. The SUNPOW OTMD14 Metal Detector comes with a **Lifetime Warranty**, providing peace of mind and long-term value. For any questions, technical assistance, or warranty claims, please refer to the contact information provided on the product packaging or the official SUNPOW website.

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Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page’s manual context to help answer it.

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Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question