

Manuals+

[Q & A](#) | [Deep Search](#) | [Upload](#)

manuals.plus /

› [SUNPOW](#) /

› [SUNPOW Metal Detector OTMD14 User Manual](#)

SUNPOW OTMD14

SUNPOW Metal Detector OTMD14 User Manual

Model: OTMD14

1. INTRODUCTION

Thank you for choosing the SUNPOW Metal Detector OTMD14. This professional-grade metal detector is designed for high accuracy and versatility, featuring a 12-inch waterproof coil, dual backlit LCD displays, and an advanced DSP chip. With 5 detection modes and an adjustable length, it is suitable for various environments and treasure hunting needs. This manual provides essential information for proper setup, operation, and maintenance to ensure optimal performance and longevity of your device.

2. SAFETY INFORMATION

- Always obtain permission before metal detecting on private property.
- Be aware of local regulations and laws regarding metal detecting in public areas.
- Exercise caution when digging to avoid damaging underground utilities or historical artifacts.
- The search coil is waterproof (IP68), but the control box is NOT waterproof. Do not submerge the control box in water.
- Avoid using the metal detector during lightning storms.
- Keep the device away from strong magnetic fields.
- Store the detector in a cool, dry place when not in use.

3. PACKAGE CONTENTS

Upon opening your SUNPOW Metal Detector OTMD14 package, please verify that all the following components are included:

- SUNPOW Metal Detector OTMD14 Main Unit (Control Box, Stem, Armrest, Search Coil)
- Headphones
- Carrying Backpack
- Folding Shovel/Spade Tool
- Waist Bag for Shovel Tool

- User Manual
- Batteries (2x 9V batteries)



Image: Complete package contents of the SUNPOW Metal Detector OTMD14, including the main unit, headphones, backpack, shovel, waist bag, and batteries.

4. SETUP AND ASSEMBLY

Follow these steps to assemble your SUNPOW Metal Detector OTMD14:

1. **Attach the Search Coil:** Secure the 12-inch 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 and the upper stem. The robust spiral structure and quick-lock design allow for easy and secure assembly.
3. **Mount the Control Box:** Slide the control box onto the upper stem. The symmetrical handle design ensures comfortable grip and access to controls.
4. **Connect the Coil Cable:** Wrap the search coil cable neatly around the stem and plug the connector into the designated port on the control box. Ensure a secure connection.

5. **Install Batteries:** Open the battery compartment on the control box and insert the two 9V batteries, observing polarity.
6. **Adjust Length and Armrest:** Adjust the length of the detector from 19 inches to 59 inches using the quick-lock mechanisms to suit your height and comfort. Adjust the armrest position for ergonomic use.
7. **Connect Headphones:** Plug the headphones into the headphone jack on the control box for private audio alerts.

Your browser does not support the video tag.

Video: A detailed tutorial demonstrating the installation process of the SUNPOW Metal Detector MD14, showing how to assemble the coil, stem, control box, and connect cables.



Image: The SUNPOW Metal Detector fully assembled, highlighting its adjustable length and ergonomic design for comfortable use.

5. OPERATING INSTRUCTIONS

The SUNPOW OTMD14 features a user-friendly interface with a large backlit LCD display and multiple detection modes. Here's how to operate your detector:

5.1 Power On/Off

Press the **POWER** button to turn the detector on or off. The backlit LCD display will illuminate, providing clear visibility in various lighting conditions.

5.2 Detection Modes

Press the **MODE** button to cycle through the 5 available detection modes:

- **All Metal Mode (A-M):** Detects all types of metal. This mode is ideal for general searching when you want to find any metallic object.
- **Discrimination Mode (DISC):** Allows you to eliminate unwanted metal targets (e.g., iron, trash) by adjusting the discrimination level. The detector will only respond to selected metal types.
- **Jewelry Mode (JEWELRY):** Specifically tuned to focus on finding jewelry.
- **Memory Mode (MEMORY):** Explores only the metals that have been previously remembered or programmed into the detector.
- **Pinpoint Mode (PP):** Enables precise localization of the detected target. Once a target is found, press and hold the **PP** button to narrow down its exact location.



Image: The metal detector's LCD display illustrating the various detection modes: All Metal, Disc, Jewelry, Memory, and Pinpoint (PP) modes.

5.3 Sensitivity and Volume Adjustment

- **Sensitivity (SENS):** Use the **SENS +** and **SENS -** buttons to adjust the detector's sensitivity. Higher sensitivity increases detection depth but may also increase false signals in mineralized ground.
- **Volume (VOL):** Use the **VOL +** and **VOL -** buttons to adjust the audio volume of the detector's alerts.

5.4 Target Identification

The dual backlit LCD display provides visual cues for target identification, including a numerical target ID (0-99) and

depth indication. Different metals will produce different audio tones and display different numerical values, helping you identify the type of metal before digging.

Your browser does not support the video tag.

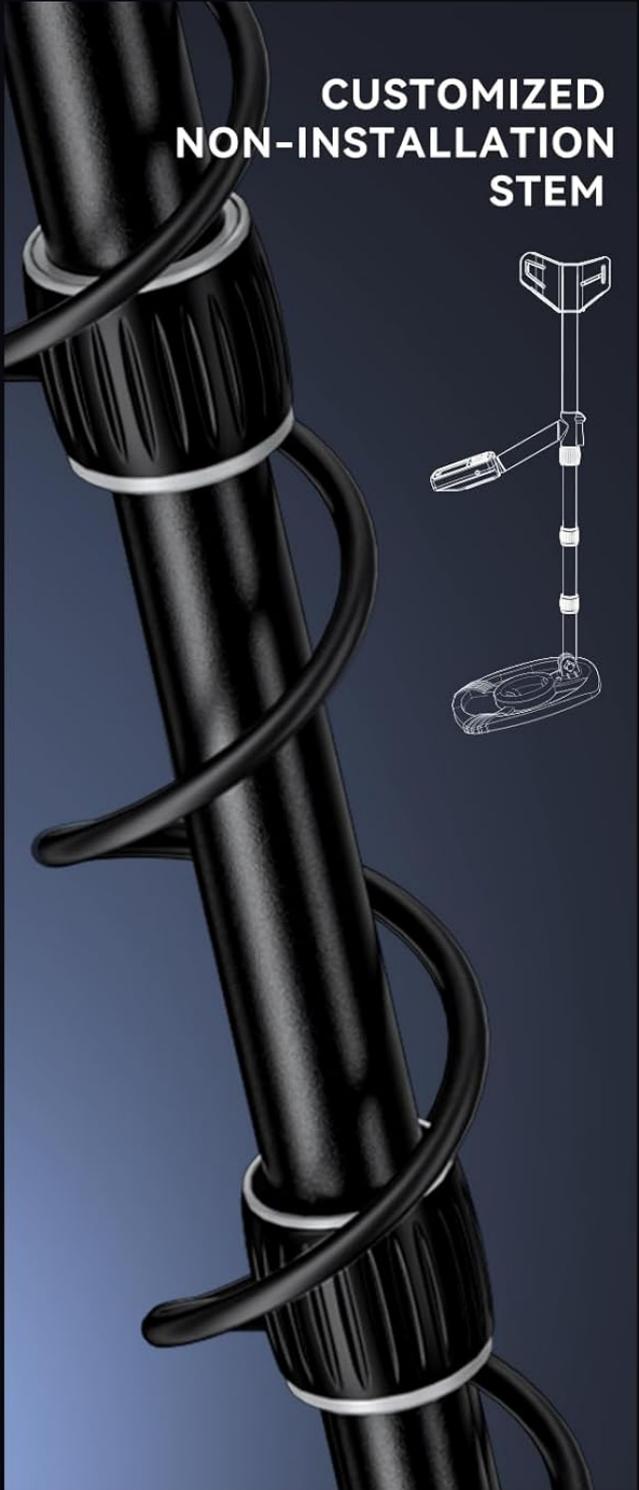
Video: An overview of the SUNPOW Metal Detector OTMD14 in action, demonstrating its features and use in various environments.

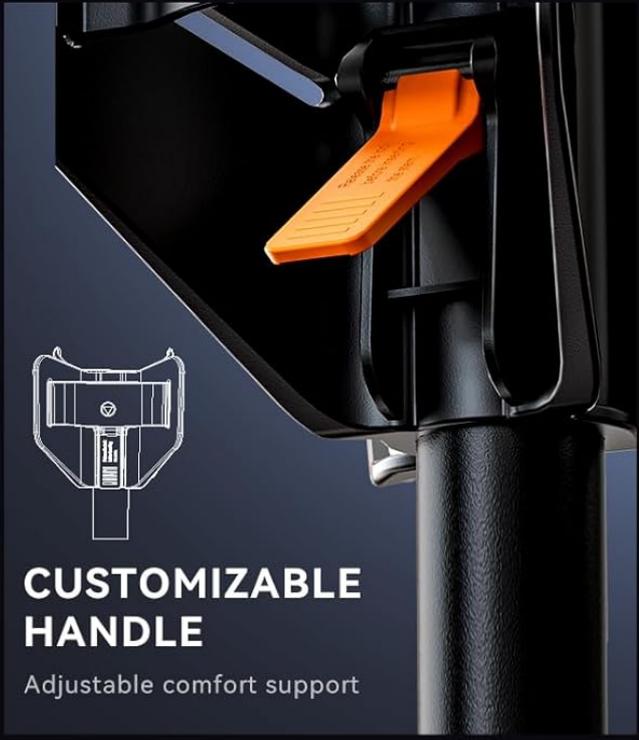
6. MAINTENANCE AND CARE

Proper maintenance will extend the life of your metal detector:

- **Cleaning:** After each use, especially in sandy or wet conditions, wipe down the search coil and stem with a damp cloth. Ensure the control box remains dry.
- **Storage:** Store the detector in its carrying backpack in a dry, temperature-controlled environment. Remove batteries if storing for extended periods to prevent leakage.
- **Coil Protection:** While the search coil is IP68 waterproof, avoid unnecessary impacts or abrasions to prevent damage.
- **Cable Care:** Do not pull or yank the coil cable. Ensure it is not pinched or tangled during use or storage.

CUSTOMIZED NON-INSTALLATION STEM





CUSTOMIZABLE HANDLE

Adjustable comfort support

CUSTOMIZABLE CONTROL BOX POSITION

Feely Operation



■ Adjustment Stem from 20" to 54"

Image: A user demonstrating the waterproof capability of the 12-inch search coil, using the metal detector in shallow water at a beach. Note: Control box is not waterproof.

7. TROUBLESHOOTING

If you encounter issues with your metal detector, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
---------	----------------	----------

Problem	Possible Cause	Solution
No Power	Dead or incorrectly installed batteries.	Replace batteries with fresh ones, ensuring correct polarity.
Constant Beeping/False Signals	High sensitivity setting; electromagnetic interference; highly mineralized ground.	Reduce sensitivity; move away from power lines or electronic devices; use DISC mode to filter out ground mineralization.
No Detection/Weak Signal	Low sensitivity; coil cable loose; target too deep or too small.	Increase sensitivity; check coil cable connection; sweep slower and closer to the ground.
Inaccurate Target ID	Multiple targets; target partially obscured; ground mineralization.	Sweep from different angles; use Pinpoint mode; adjust discrimination settings.

8. SPECIFICATIONS

- **Brand:** SUNPOW
- **Model:** OTMD14
- **Color:** OTMD14-Black
- **Search Coil Size:** 12 Inches
- **Waterproof Rating (Coil):** IP68
- **Detection Depth:** Up to 10 inches (for standard targets)
- **Display Type:** Backlit LCD
- **Number of Programs/Modes:** 5 (All Metal, Disc, Jewelry, Memory, Pinpoint)
- **Adjustable Length:** Yes, from 19 inches to 59 inches
- **Power Source:** Battery Powered (2x 9V batteries required)
- **Material:** Metal, Acrylonitrile Butadiene Styrene
- **Item Weight:** 3 Kilograms (approx. 6.6 pounds)
- **Product Dimensions:** 17.32"L x 11.22"W x 6.69"H (packaged)

9. WARRANTY AND SUPPORT

SUNPOW stands behind the quality of its products. The SUNPOW Metal Detector OTMD14 comes with a **Lifetime Warranty**, providing peace of mind and long-term value. For any questions, technical support, or warranty claims, please contact SUNPOW customer service through the official channels provided at the time of purchase or visit the SUNPOW official website.

For additional resources and product information, you may visit the [SUNPOW Store on Amazon](#).