SuperEye S500

SuperEye S500 Metal Detector

User Manual

Introduction

The SuperEye S500 Metal Detector is designed for both novice and experienced treasure hunters, offering advanced features for effective metal detection. Its robust construction and user-friendly interface make it ideal for various environments, from beaches to fields.



Figure 1: SuperEye S500 Metal Detector, showing the full assembly including the search coil, control box, and armrest.

Key features include a waterproof search coil, multiple detection functions, and an ergonomic design for comfortable use during extended periods.

Product Components

Familiarize yourself with the main components of your S500 Metal Detector:

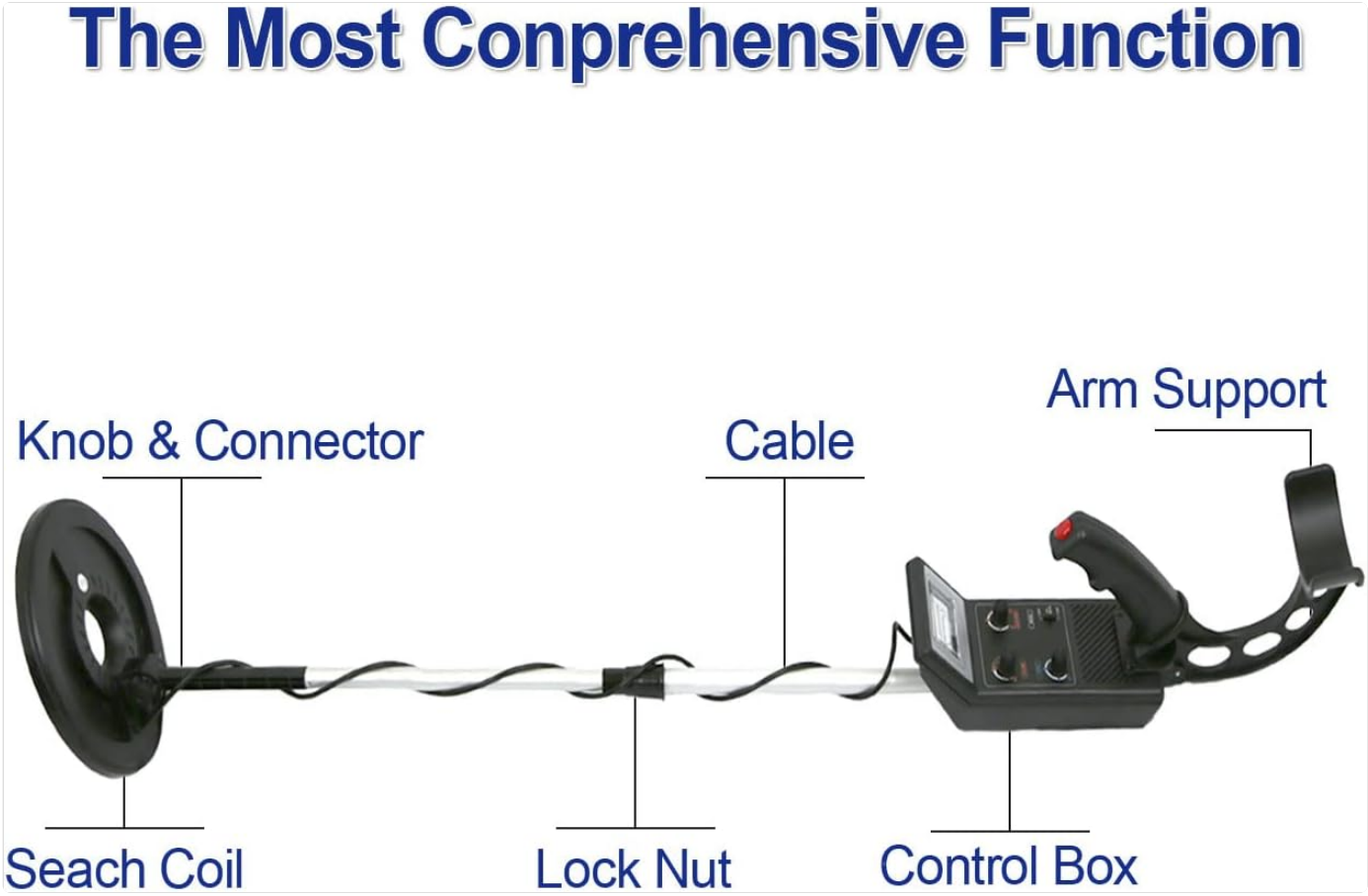


Figure 2: Labeled diagram of the S500 Metal Detector components, including the search coil, control box, and arm support.

- **Search Coil:** The circular part that detects metal objects.
- **Knob & Connector:** Connects the search coil to the shaft.
- **Lock Nut:** Secures the shaft length.
- **Cable:** Connects the search coil to the control box.
- **Control Box:** Houses the electronics, display, and controls.
- **Arm Support:** Provides comfort and stability during use.
- **Adjustable Shaft:** Allows for length customization (1m to 1.25m).

Setup and Assembly

Follow these steps to assemble your SuperEye S500 Metal Detector:

1. **Attach the Search Coil:** Connect the search coil to the lower shaft using the provided knob and connector. Ensure it is securely fastened.
2. **Assemble the Shaft:** Connect the lower, middle, and upper shafts. Adjust the length to a comfortable position using the lock nut. The adjustable length ranges from 1 meter to 1.25 meters.
3. **Mount the Control Box:** Slide the control box onto the upper shaft. Ensure the cable from the search coil is neatly wrapped around the shaft and plugged into the control box.
4. **Install Batteries:** Open the battery compartment on the control box. Insert 6 AA batteries, ensuring correct polarity. Close the compartment securely. *(Batteries not included)*



Figure 3: Open battery compartment, showing slots for 6 AA batteries.

Once assembled, adjust the armrest for optimal comfort and balance.



Figure 4: Ergonomic armrest designed for comfortable, extended use.

Operating Instructions

The S500 Metal Detector offers 9 detection functions for precise control over your search.



Figure 5: Key operational features including Auto Ground Balance and Motion Discrimination.

- **Power On/Off:** Use the designated switch on the control box to turn the detector on or off.
- **Sensitivity Adjustment:** Adjust the sensitivity knob to control the detection depth. Higher sensitivity detects deeper objects but may also pick up more interference.
- **Discrimination Control:** This function allows you to ignore certain types of metal (e.g., iron) and focus on more valuable targets. Refer to the control panel markings for specific settings.
- **Target Indicator:** The analog meter on the control box will indicate the strength of the detected signal. A stronger signal suggests a larger or closer object.



Figure 6: The target indicator displaying signal strength and low battery warning.

- **Waterproof Search Coil:** The 8-inch search coil is waterproof, allowing for detection in shallow water and humid environments. Ensure the control box is kept dry as it is not waterproof.

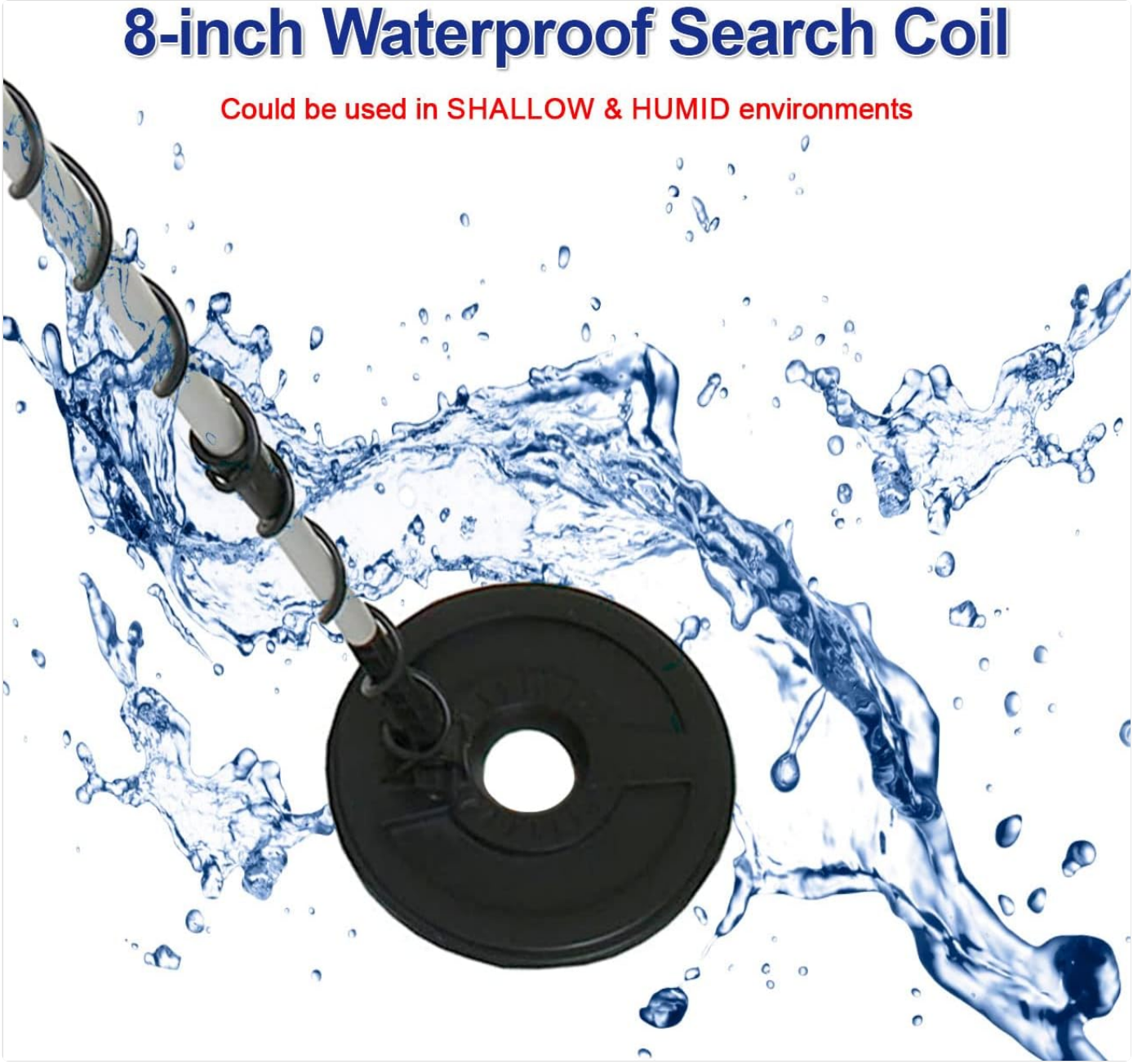


Figure 7: The 8-inch waterproof search coil, suitable for use in shallow and humid conditions.

- **Earphone Jack:** A 3.5mm (1/8") earphone jack is provided for private listening to detection signals.*(Earphones not supplied)*
- **All-Metal Mode:** Detects all types of metal without discrimination.
- **Multiple Tones Audio:** Different audio tones indicate different types of metal.
- **Pinpoint Function:** Helps to precisely locate the detected object.

Maintenance

- **Cleaning:** After each use, wipe down the detector with a damp cloth. Avoid using harsh chemicals or abrasive cleaners. Ensure the search coil is clean, especially after use in wet or muddy conditions.
- **Storage:** Store the metal detector in a dry, cool place away from direct sunlight and extreme temperatures. If storing for an extended period, remove the batteries to prevent leakage.
- **Battery Care:** Always use fresh batteries. If the low battery indicator appears, replace all 6 AA batteries promptly to ensure optimal performance.
- **Coil Protection:** While the search coil is waterproof, avoid submerging the control box. Inspect the coil cable regularly for any signs of wear or damage.

Troubleshooting

Problem	Possible Cause	Solution
Detector does not power on.	Dead or incorrectly installed batteries.	Check battery polarity; replace with fresh AA batteries.
No detection or weak signals.	Sensitivity too low; incorrect discrimination setting; coil not parallel to ground.	Increase sensitivity; adjust discrimination; sweep coil parallel to the ground.
False signals or erratic behavior.	High electromagnetic interference; mineralized ground; loose cable connection.	Move away from power lines/electronics; reduce sensitivity; check all cable connections.
Low battery indicator stays on.	Batteries are low.	Replace all 6 AA batteries.

Specifications

Feature	Detail
Brand	SuperEye
Model Number	S500
Color	Black, Silver
Batteries Required	Yes (6 x AA, not included)
Material	Aluminum, Plastic
Power Source	Battery Powered
Item Weight	8.93 Pounds (approx. 4.05 kg)
Adjustable Length	Yes (1m to 1.25m)
Recommended Uses	Metal Detection
Display Type	Analog meter
Product Dimensions	11.8 x 3 x 2.2 inches (Control Box)
UPC	784682118245

Warranty and Support

For any questions regarding your SuperEye S500 Metal Detector, including warranty information or technical support, please visit the official SuperEye store or contact customer service.

You can find more information and contact details at theSuperEye Official Store on Amazon.

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