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AKA Signum MFD

AKA Signum MFD Metal Detector User Manual

Model: Signum MFD

Introduction

This manual provides comprehensive instructions for the assembly, operation, and maintenance of your AKA Signum MFD Metal Detector. The Signum MFD is a professional, computerized, high-sensitivity, multi-frequency metal detector designed for efficient and accurate target identification. Please read this manual thoroughly before using your device to ensure optimal performance and longevity.

Package Contents

Before assembly, verify that all components are present:

- AKA Signum MFD Control Unit
- Search Coil
- Lower, Middle, and Upper Rods
- Armrest
- Battery (1 Lithium Ion, included)
- Charging Cable (AC/DC adapter)
- User Manual (this document)
- Additional accessories (e.g., pinpointer, gloves, cap, flashlight)



Image: Complete AKA Signum MFD Metal Detector kit, showing the main unit, search coil, and various included accessories like a pinpointer, gloves, a cap, and a flashlight.

Setup and Assembly

1. **Assemble the Rods:** Connect the lower, middle, and upper rods. Ensure they are securely fastened. The adjustable length feature allows customization for user comfort.
2. **Attach the Search Coil:** Secure the search coil to the lower rod using the provided bolt and washers. Wrap the coil cable snugly around the rod, leaving enough slack for adjustment, and connect it to the control unit.
3. **Mount the Control Unit:** Slide the control unit onto the upper rod. Adjust its position for comfortable viewing and access to controls.
4. **Install the Armrest:** Attach the armrest to the upper rod, ensuring it provides stable support during operation.
5. **Battery Installation and Charging:** The device uses 1 Lithium Ion battery (included). Ensure it is properly installed. For initial use, fully charge the battery using the provided AC/DC power source.



Image: Exploded view of the AKA Signum MFD, showing the main components separated for assembly, including the control unit, search coil, and adjustable rod sections.



Image: Fully assembled AKA Signum MFD Metal Detector, viewed from the side, ready for use.

Operating Instructions

Power On/Off

Press and hold the power button on the control unit to turn the detector on or off. The LCD display will illuminate upon startup.

Understanding Algorithms (MSF, SSF, MM)

The AKA Signum MFD features three distinct algorithms, each optimized for different search conditions:

- **MSF (Multi-Frequency Search):** General purpose mode for varied conditions.
- **SSF (Selective Search Frequency):** Ideal for specific target types or ground conditions.
- **MM (High Trash Mode):** Designed for areas with high metallic trash, offering fast recovery speed.

Each algorithm retains its own saved parameters for discrimination, sensitivity, and audio tone, allowing for quick switching between optimized settings.

Target Identification (Hodograph)

A unique feature of AKA detectors is the "hodograph" identification system. This technology provides a spectral-graphic image on the LCD display (128x64) during a search, allowing for precise and easy identification of targets. Familiarize

yourself with common target signatures to interpret the hodograph effectively.





Image: Detailed view of the AKA Signum MFD control panel, highlighting the LCD screen with its hodograph display and various control buttons for settings adjustment.

Adjusting Settings

The control unit features buttons for adjusting various parameters:

- **Sensitivity:** Controls the detector's depth and responsiveness. Adjust based on ground conditions.
- **Discrimination:** Filters out unwanted metals. Use carefully to avoid missing valuable targets.
- **Audio Tone:** Customize audio responses for different target types.
- **Operating Frequency:** The device operates in the range of 1 to 30 kHz. Specific frequency adjustments can be made via the control unit to optimize for target size and type.

Maintenance

- **Cleaning:** After each use, wipe down the detector with a damp cloth. Avoid abrasive cleaners or solvents. Ensure the search coil is free of dirt and debris.
- **Storage:** Store the detector in a dry, cool place away from direct sunlight. If storing for extended periods, remove the battery or ensure it is partially charged (not fully depleted or fully charged) to prolong its life.
- **Battery Care:** Recharge the Lithium Ion battery as needed. Avoid overcharging or completely draining the battery frequently.
- **Water Resistance:** The device has an International Protection Rating of IPX7, meaning it can withstand immersion in water up to 1 meter for 30 minutes. However, always ensure all connections are secure and sealed before exposing to moisture.

Troubleshooting

- **No Power:** Ensure the battery is fully charged and correctly installed. Check power button operation.
- **Erratic Signals:** This can be caused by electromagnetic interference (EMI) from power lines, cell phones, or other electronic devices. Move to a different location or reduce sensitivity. Ground mineralization can also cause erratic signals; perform a ground balance if available.
- **Poor Depth:** Check sensitivity settings. Ensure the search coil is properly connected and not damaged. Highly mineralized ground can reduce depth; consider adjusting ground balance or using a different search mode.
- **No Audio:** Check volume settings and ensure headphones (if used) are properly connected and functional.

Specifications

Feature	Detail
Brand	AKA
Model Number	AKA Signum MFD
Operating Frequency	1 to 30 kHz (adjustable)
Power Source	Battery (Lithium Ion), Corded Electric (AC/DC)
Batteries Required	Yes (1 Lithium Ion battery included)
Material	Metal
Adjustable Length	Yes
International Protection Rating	IPX7
Item Weight	3 pounds
Display	LCD (128x64) with Hodograph

Warranty and Support

The AKA Signum MFD Metal Detector comes with a manufacturer's warranty. For specific warranty terms and conditions, please refer to the documentation provided with your purchase or contact the manufacturer directly.
For technical support, troubleshooting assistance, or inquiries regarding your device, please contact your retailer or the manufacturer. The seller, DetectorPower, offers a hassle-free 15-day return policy.
Important Notice: Bank authorization may be necessary prior to or after purchase to prevent order cancellation. Please confirm with your bank or Amazon customer service to avoid order delays.

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