

Wildgame Innovations Swarm Series MX100E

Ground EFX MX100E Swarm Series Digital Metal Detector User Manual

Brand: Wildgame Innovations | Model: Swarm Series MX100E

INTRODUCTION

The Ground EFX MX100E Swarm Series Digital Metal Detector is designed to help users locate various metallic objects beneath the surface. This device incorporates advanced digital technology to provide clear signal strength and identification, enhancing efficiency in target detection. It features an easy-to-use backlit interface, high-definition audio tones, and multiple detection modes to suit different search environments and target types. This manual provides essential information for the proper assembly, operation, maintenance, and troubleshooting of your metal detector.

IMPORTANT SAFETY INFORMATION

CAUTION:

- This product may emit electromagnetic fields that could interfere with pacemakers or other medical devices. Always keep a safe distance from such devices.
- Do not use this product near airports, military bases, or other restricted areas.
- Keep batteries away from children and pets.
- Do not use this product in hazardous or explosive environments.

PRODUCT OVERVIEW AND COMPONENTS

The Ground EFX MX100E Swarm Series Digital Metal Detector is constructed with durable polycarbonate and fiberglass, designed for robust outdoor use. Key components include the main control unit with a digital backlit interface, an adjustable shaft, an arm guard with a strap, and a 10-inch submersible search coil.



Figure 1: Ground EFX MX100E Swarm Series Digital Metal Detector. This image displays the complete assembly of the metal detector, highlighting its yellow and black design, the control unit, adjustable shaft, and the 10-inch search coil.

Key Features:

- Extremely durable polycarbonate and fiberglass construction.
- Large, simple-to-use digital backlit interface.
- 8 metal categories for target identification.
- Adjustable discrimination to filter unwanted metals.
- 3 elimination modes: All-Metal, Coin, and Jewelry.
- 4 individual adjustable HD audio tones for different targets.
- Signal strength and depth indicators in pin point mode.
- Quick release extension rod design, adding up to 14 inches of length.
- Adjustable arm guard with strap for comfortable use.
- External 3.5mm headphone jack (headphones not included).
- Capable of detecting quarter-sized coins up to 10 inches away.
- 10-inch submersible coil for use in shallow water.
- Designed for both right or left-handed use.

SETUP AND ASSEMBLY

Before operating your metal detector, proper assembly and battery installation are required.

1. **Battery Installation:** The detector requires 6 AA-cell alkaline batteries (not included). Locate the battery compartment, typically on the control unit. Insert the batteries, ensuring correct polarity as indicated inside the compartment. Securely close the battery cover.
2. **Assemble the Shaft:** Connect the lower shaft (with the search coil) to the middle shaft, and then to the upper shaft (with the control unit and armrest). The quick release extension rod allows for length adjustment up to 14 inches. Ensure all connections are secure.
3. **Attach the Arm Guard:** Slide the adjustable arm guard onto the upper shaft and secure it with the strap. Adjust its position for comfortable use, ensuring your forearm rests comfortably.
4. **Connect the Search Coil Cable:** Carefully wrap the search coil cable around the shaft, ensuring it is not too tight or loose, and plug the connector into the designated port on the control unit.
5. **Adjust Coil Angle:** Loosen the knob on the search coil to adjust its angle parallel to the ground. Tighten the knob to secure the coil in place.

OPERATING INSTRUCTIONS

Familiarize yourself with the control unit and its functions before beginning your search.



Figure 2: Operating the Ground EFX MX100E Metal Detector. This image shows a user actively searching with the metal detector in a natural outdoor setting, demonstrating its ergonomic design and ease of use in the field.

Basic Operation:

1. **Power On/Off:** Press and hold the power button on the control unit to turn the detector on or off. The backlit display will illuminate.
2. **Select a Mode:**
 - **All-Metal Mode:** Detects all types of metal without discrimination. Ideal for finding all metallic objects.
 - **Coin Mode:** Optimized to detect coin-sized objects, often discriminating against smaller iron targets.
 - **Jewelry Mode:** Designed to focus on jewelry, typically filtering out iron and some other common trash metals.

Use the mode selection buttons to cycle through these options.

3. **Adjust Discrimination:** Use the discrimination controls to adjust the level at which unwanted metals are ignored. Higher discrimination settings will filter out more trash items but may also miss some desirable

targets. The digital interface displays 8 metal categories to help identify targets.

- 4. **Audio Tones:** The detector features 4 individual adjustable HD audio tones. Different tones will sound for different types of metal, aiding in target identification without looking at the display.
- 5. **Pin Point Mode:** Once a target is detected, activate the pin point mode to narrow down the exact location of the object. The signal strength and depth indicators on the display will assist in precise pinpointing.
- 6. **Sweeping Technique:** Hold the detector with the search coil parallel to the ground, about 1-2 inches above the surface. Sweep the coil slowly from side to side in overlapping arcs. Maintain a consistent height and speed for optimal detection.
- 7. **Headphone Use:** For improved audio clarity and to conserve battery life, plug 3.5mm headphones (not included) into the external headphone jack.

MAINTENANCE AND CARE

Proper maintenance ensures the longevity and optimal performance of your metal detector.

- **Cleaning:** After each use, especially in dirty or wet conditions, wipe down the search coil and shaft with a damp cloth. Avoid using harsh chemicals or abrasive cleaners.
- **Coil Care:** The 10-inch coil is submersible, but the control unit is not. Do not submerge the control unit. Ensure the coil cable connection is clean and dry before and after use.
- **Battery Storage:** Remove batteries from the detector if it will not be used for an extended period to prevent leakage and damage. Store batteries in a cool, dry place.
- **Storage:** Store the metal detector in a dry, temperate environment. Avoid extreme temperatures and direct sunlight.
- **Inspection:** Periodically inspect all cables, connections, and mechanical parts for any signs of wear or damage.

TROUBLESHOOTING

This section addresses common issues you might encounter with your metal detector.

Problem	Possible Cause	Solution
Detector does not power on.	Dead or incorrectly installed batteries.	Replace with fresh AA alkaline batteries. Ensure correct polarity.
Erratic or false signals.	High mineral content in soil, electrical interference, or too high sensitivity.	Reduce sensitivity. Move away from power lines or other electronic devices. Try adjusting ground balance if available (not explicitly stated as a feature, but common for metal detectors).
No detection or weak signals.	Coil not connected properly, low batteries, or incorrect mode.	Check coil cable connection. Replace batteries. Ensure detector is in All-Metal mode or appropriate discrimination setting.
Display is dim or unreadable.	Low batteries or extreme temperature.	Replace batteries. Operate within recommended temperature ranges.

SPECIFICATIONS

Attribute	Detail
Model Number	Swarm Series MX100E
Brand	Wildgame Innovations
Product Dimensions	27.94 x 12.7 x 53.34 cm (assembled)
Item Weight	1.36 kg (3 Pounds)
Power Source	Battery Powered
Batteries Required	6 AA-cell alkaline batteries (not included)
Battery Life	Approximately 1 hour (actual life may vary)
Material	Polycarbonate, Fibreglass
Colour	Yellow
Display Type	Digital, Backlit
Search Coil	10-inch submersible coil
Detection Depth (Coin)	Up to 10 inches for quarter-sized coins
Adjustable Length	Yes, extension rod adds up to 14 inches
Hand Orientation	Left/Right
International Protection Rating	IP54 (Dust protected, splash resistant)
Manufacturer	WIU89
Date First Available	March 28, 2013

WARRANTY AND SUPPORT

For detailed warranty information and customer support, please refer to the documentation included with your product or visit the official Wildgame Innovations website. Warranty terms typically cover manufacturing defects for a specified period from the date of purchase. Keep your proof of purchase for any warranty claims.

For technical assistance or inquiries, contact Wildgame Innovations customer service directly. Contact information can usually be found on the manufacturer's website or product packaging.

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ASK A QUESTION ABOUT THIS MANUAL

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.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

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