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> MINELAB Equinox 900 Multi-Frequency Collapsible Metal Detector User Manual

MINELAB EQUINOX 900

MINELAB EQUINOX 900 Metal Detector User Manual

Model: 3720-0006

Brand: MINELAB

1. PRODUCT OVERVIEW

The MINELAB Equinox 900 is a multi-frequency collapsible metal detector designed for adults, featuring advanced detection capabilities for various terrains and target types.



Figure 1: The MINELAB Equinox 900 metal detector, showcasing its primary components.



Figure 2: The Equinox 900 is engineered for performance across diverse environments, from parks to beaches and fields.

Key Features:

- **Simultaneous Multi-Frequency (Multi-IQ):** Utilizes 5 frequencies at once for comprehensive detection, or choose from 6 single frequencies for specific targets.
- **Fully Waterproof:** Submersible up to 16 ft (5 m), allowing for underwater treasure hunting.
- **4 Detect Modes:** Easily select from Park, Field, Beach, or Gold modes to optimize detection for various target and ground types.
- **Accurate Target ID:** Features a 119 high-resolution Target ID and superior audio control for precise target identification.
- **Portable Design:** Composed of lightweight 3-piece carbon-fiber shafts, weighing only 2.8 lbs (1.2 kg) and collapsing to 24 inches (61 cm) for easy transport.

2. COMPONENTS AND CONTROLS

Familiarize yourself with the main components and control interface of your Equinox 900 detector.



Figure 3: Key components of the Equinox 900, including the waterproof EQX11 coil, carbon fiber shaft, backlit control pod, and adjustable armrest.



Figure 4: The control pod provides intuitive access to all detector functions, including various settings and modes.

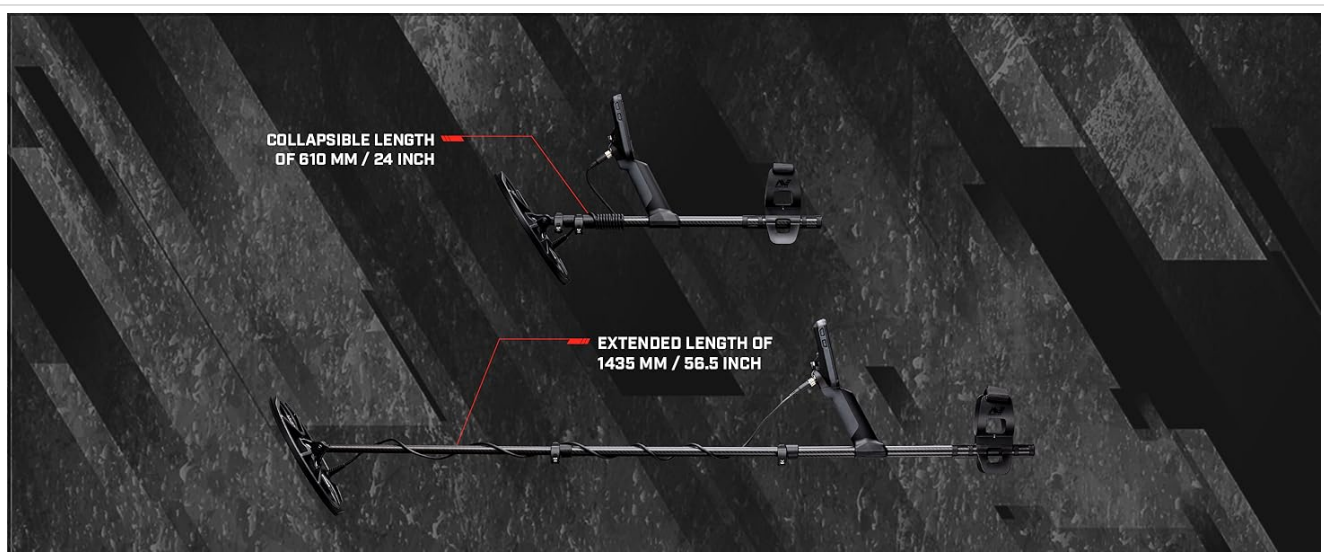


Figure 5: Additional features include a built-in speaker, flashlight, magnetic USB charging port, and handgrip vibration for enhanced user experience.

3. SETUP AND ASSEMBLY

Follow these steps to assemble your MINELAB Equinox 900:

1. **Attach the Coil:** Securely connect the EQX 11" or 6" Double-D coil to the lower shaft using the provided hardware.
2. **Assemble the Shaft:** Extend the 3-piece carbon-fiber shaft to your desired operating length. Ensure all locking mechanisms are engaged.
3. **Mount the Control Pod:** Slide the control pod onto the upper shaft and secure it.
4. **Adjust the Armrest:** Position the adjustable armrest for comfortable and stable operation.
5. **Connect Cables:** Connect the coil cable to the control pod. Ensure the connection is secure.
6. **Charge Battery:** Before first use, fully charge the internal Lithium Ion battery using the magnetic USB charging connector.



Figure 6: The detector's 3-piece carbon-fiber shaft allows for compact storage and easy extension for use.

4. OPERATING MODES AND FREQUENCIES

The Equinox 900 offers advanced multi-frequency technology and specialized detection modes to enhance your treasure hunting experience.

Multi-IQ Technology:

MINELAB's Multi-IQ technology allows the detector to transmit and receive a broad spectrum of frequencies simultaneously. This provides superior depth and sensitivity across all target types and ground conditions, from highly mineralized soil to saltwater beaches.



Figure 7: Multi-IQ technology allows the detector to operate on multiple frequencies simultaneously, enhancing target detection across different ground conditions.

Single Frequencies:

For specific hunting scenarios, you can select from 6 single frequencies (4, 5, 10, 15, 20, 40 kHz) to optimize performance for particular target sizes or ground conditions.

Detect Modes:

The Equinox 900 features four primary detect modes, each optimized for different environments:

- **Park Mode:** Ideal for high-trash areas like parks and urban environments.
- **Field Mode:** Suitable for general detecting in fields, farmland, and historical sites.
- **Beach Mode:** Optimized for wet sand and saltwater conditions, minimizing false signals from mineralization.
- **Gold Mode:** Specifically designed for prospecting small gold nuggets in mineralized ground.



Figure 8: Select from four specialized search modes to optimize performance for specific target types and environments.

5. WATERPROOF CAPABILITIES

The MINELAB Equinox 900 is designed to withstand challenging wet environments, offering full waterproof capability.

- **IP68 Rating:** The detector is rated IP68, indicating it is dust-tight and protected against continuous immersion in water.
- **Submersion Depth:** It can be fully submerged up to 16 feet (5 meters), making it suitable for shallow water hunting, riverbeds, and beach environments.



Figure 9: The Equinox 900 is fully waterproof and submersible up to 16 feet (5 meters), ideal for various water-based treasure hunting.

6. TARGET IDENTIFICATION AND SEPARATION

The Equinox 900 provides precise target identification and excellent target separation capabilities to help you distinguish valuable finds from junk.

- **119 High-Resolution Target ID:** The large, clear LCD display shows a Target ID number (0-119) that helps identify the probable type of metal detected. Higher numbers generally indicate more conductive metals.
- **Iron Bias:** This setting allows you to adjust the detector's response to ferrous (iron) targets, helping to reduce false signals from iron junk while still detecting valuable targets nearby.
- **Recovery Speed:** Adjusting the recovery speed helps the detector quickly process signals from multiple targets in close proximity, improving target separation in trashy areas.

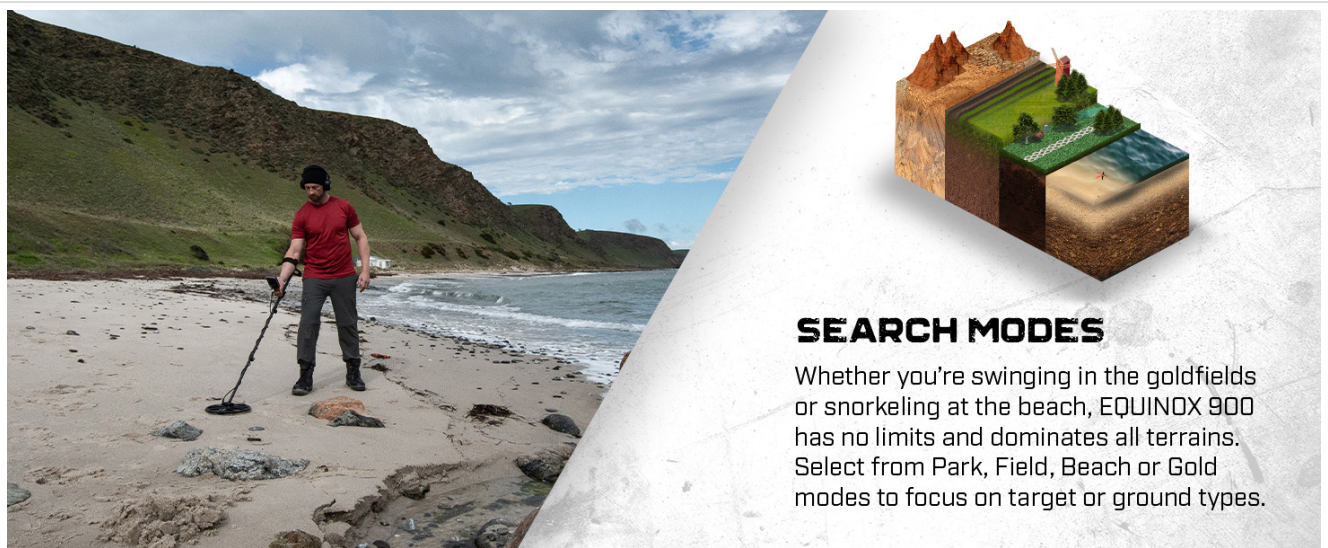


Figure 10: Advanced target separation features help differentiate between valuable targets and unwanted iron junk.

7. MAINTENANCE AND CARE

Proper maintenance ensures the longevity and optimal performance of your Equinox 900.

- **Cleaning:** After each use, especially in wet or sandy conditions, rinse the coil and lower shaft with fresh water. Wipe down the control pod and upper shaft with a damp cloth. Do not use abrasive cleaners.
- **Battery Care:** Store the detector with a partially charged battery (around 50%) if not used for extended periods. Avoid fully discharging the battery frequently.
- **Storage:** Store the detector in a cool, dry place, away from direct sunlight and extreme temperatures. When collapsed, ensure it is not under heavy objects.
- **Coil Protection:** Use the included skidplate on the coil to protect it from scratches and abrasions during use.

8. TROUBLESHOOTING COMMON ISSUES

If you encounter issues with your Equinox 900, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
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Problem	Possible Cause	Solution
No Power	Low battery; Power button not pressed correctly.	Charge the battery; Press and hold the Power button until the unit turns on.
Excessive Noise/False Signals	High sensitivity; Electromagnetic interference; Highly mineralized ground.	Reduce sensitivity; Perform noise cancel; Ground balance the detector.
Poor Depth Performance	Incorrect ground balance; Low sensitivity; Coil not parallel to ground.	Re-ground balance; Increase sensitivity (if stable); Keep coil parallel to the ground.
No Audio from Headphones	Headphones not paired; Volume too low; Headphone battery low.	Ensure headphones are paired; Increase volume; Charge headphone battery.

9. TECHNICAL SPECIFICATIONS

Feature	Specification
Brand	MINELAB
Model	EQUINOX 900 (Item model number: 3720-0006)
Operating Frequencies	Multi-IQ, 4kHz, 5kHz, 10kHz, 15kHz, 20kHz, 40kHz
Waterproof Rating	IP68 (Submersible up to 16 ft / 5 m)
Detect Modes	Park, Field, Beach, Gold
Target ID	119 High-Resolution Target ID
Coils Included	EQX 11" Double-D, EQX 6" Double-D
Headphones	Low Latency Wireless Headphones Included
Shaft Material	Carbon Fiber
Collapsed Length	24 inches (61 cm)
Extended Length	56.5 inches (143.5 cm)
Item Weight	2.8 Pounds (1.2 kg)
Power Source	Battery Powered (1 Lithium Ion battery required)
Display Type	LCD
UPC	811493017723

10. WARRANTY AND CUSTOMER SUPPORT

MINELAB products are manufactured to high standards and come with a manufacturer's warranty. For specific warranty details, including duration and coverage, please refer to the warranty card included with your product or visit the official MINELAB website.

For technical assistance, troubleshooting beyond this manual, or to inquire about repairs and parts, please contact MINELAB customer support directly. Contact information can typically be found on the MINELAB website or in your product packaging.

Online Resources:

- Visit the official MINELAB website for the latest product information, firmware updates, and support resources.
- Explore the MINELAB community forums for tips, discussions, and shared experiences from other users.