## MINELAB EQUINOX 800 Detector

# MINELAB Equinox 800 Metal Detector User Manual

Model: EQUINOX 800 Detector

## 1. Introduction

The MINELAB Equinox 800 is a versatile and powerful multi-frequency metal detector designed for enthusiasts and professionals alike. Equipped with revolutionary Multi-IQ technology, it allows for simultaneous multi-frequency operation, enabling detection across various terrains and for different target types. Its fully waterproof design makes it suitable for both land and underwater exploration.




Figure 1.1: The MINELAB Equinox 800 Metal Detector, fully assembled and ready for use.

### Key Features:

- **Simultaneous Multi-Frequency:** Utilizes Multi-IQ technology to operate on 5 frequencies concurrently, optimizing detection for all metals and soil conditions.
- **Fully Waterproof:** Submersible up to 10 ft (3 m), allowing for effective searching in wet environments, including beaches and shallow water.

- **4 Detect Modes:** Offers specialized modes (Park, Field, Beach, Gold) with customizable Search Profiles to suit specific detecting locations and target preferences.
- **Accurate Target ID:** Provides fast and precise Target ID numbers for efficient discrimination between trash and valuable targets. Includes wireless audio via Bluetooth headphones and WM 08 module.
- **Sleek & Lightweight:** Designed for comfortable, extended use with a weight of approximately 2.96 lbs (1.34 kg) and an adjustable length.

## 2. Setup and Assembly

Before your first use, ensure all components are present and correctly assembled. The Equinox 800 is designed for straightforward setup.




Figure 2.1: Components included with the MINELAB Equinox 800, including the detector, coil, headphones, WM 08 module, and charging cables.

### Assembly Steps:

1. **Attach the Search Coil:** Secure the EQX 11" Double-D Smart Coil to the lower shaft using the provided bolt and nut. Ensure it is firmly attached but do not overtighten.
2. **Connect Shaft Sections:** Assemble the middle and upper shaft sections. The shaft is adjustable for length to suit user preference.
3. **Mount Control Unit:** Slide the control unit onto the upper shaft. Ensure the coil cable is neatly wrapped around the shaft and secured to prevent snagging during use.
4. **Connect Coil Cable:** Plug the coil cable connector into the port on the control unit. Ensure a secure connection.
5. **Adjust Armrest:** Adjust the armrest for comfortable and stable operation. The armrest strap can be used for added security.
6. **Initial Charge:** Before first use, fully charge the detector's internal battery using the magnetic charging cable. A full charge takes approximately 4 hours and provides about 12 hours of run time.
7. **Pair Wireless Headphones/WM 08:** If using wireless headphones or the WM 08 module, follow their respective pairing instructions to connect them to the detector.

## 3. Operating Instructions

The Equinox 800 offers intuitive controls and advanced features for optimal metal detecting performance.



Figure 3.1: Overview of the MINELAB Equinox 800 control panel and its functions.

### Control Panel Functions:

- **Power On/Off:** Press and hold the power button (top left) to turn the detector on or off.
- **Lighting Controls:** Adjust backlight and keypad backlight for visibility in various lighting conditions.
- **Detect Mode:** Cycle through Park, Field, Beach, and Gold modes. Each mode has optimized settings for specific environments.
- **All-Metal Mode:** Engages a mode that detects all metal types without discrimination.
- **Pinpoint/Detect:** Use to precisely locate the target after a detection.
- **Sensitivity/Settings Adjust:** Adjust the detector's sensitivity and other settings.
- **Accept/Reject:** Discriminate unwanted targets by accepting or rejecting specific Target ID ranges.
- **Frequency Select:** Choose specific operating frequencies or utilize Multi-IQ for simultaneous multi-frequency operation.
- **Wireless Audio Control:** Manage wireless headphone connection and volume.

### Multi-IQ Technology:

The Equinox 800's Multi-IQ technology allows it to transmit and receive a broad spectrum of frequencies simultaneously. This provides superior depth, sensitivity, and target ID accuracy across all ground types, from mineralized soil to saltwater beaches.




Figure 3.2: Visual representation of Multi-IQ technology, combining multiple frequencies for enhanced detection.

## Detect Modes and Usage:

- **Park Mode:** Ideal for high-trash recreational areas like parks and sports fields.
- **Field Mode:** Best for general detecting in fields, woodlands, and areas with varied ground conditions, focusing on fine coins and artifacts.
- **Beach Mode:** Optimized for wet sand and saltwater environments, handling mineralization effectively.
- **Gold Mode:** Specifically designed for prospecting gold nuggets in highly mineralized ground.




Figure 3.3: A user demonstrating the metal detector on a beach, highlighting the versatility of search modes.

## Waterproof Capability:

The Equinox 800 is fully waterproof and can be submerged up to 10 feet (3 meters). This allows for searching in rivers, lakes, and ocean environments. Always ensure all connections are secure and caps are properly sealed before submerging the detector.




Figure 3.4: The Equinox 800 demonstrating its fully waterproof capability.

### Operational Video:

Video 3.1: A short demonstration of the MINELAB Equinox 800 in use, highlighting its ease of operation in various environments.

## 4. Maintenance

Proper maintenance ensures the longevity and optimal performance of your MINELAB Equinox 800.

### Cleaning:

- After each use, especially in wet or sandy conditions, rinse the search coil and lower shaft with fresh water.
- Wipe down the control unit with a damp cloth. Avoid using abrasive cleaners or solvents.
- Ensure all components are dry before storage.

### Battery Care:

- Recharge the battery after each detecting session, or when the battery indicator is low.
- For long-term storage, charge the battery to approximately 50-70% and store in a cool, dry place. Avoid extreme temperatures.

### Storage:

- Store the detector in a clean, dry environment away from direct sunlight and extreme temperatures.
- If disassembling for storage, ensure all connections are clean and protected.

## 5. Troubleshooting

If you encounter issues with your Equinox 800, try these basic troubleshooting steps:

| Problem | Possible Cause | Solution |
|---|---|---|
| No Power | Low or depleted battery | Charge the detector fully. |

| Problem | Possible Cause | Solution |
|---|---|---|
| No Target Response | Incorrect mode, low sensitivity, or high discrimination | Adjust detect mode, increase sensitivity, or reduce discrimination. Perform a ground balance. |
| Erratic Signals / False Signals | Electromagnetic interference (EMI), improper ground balance, or coil cable issues | Perform Noise Cancel. Re-ground balance. Check coil cable connection and ensure it's not loose. |
| Headphones Not Connecting | Not paired, out of range, or low battery | Ensure headphones/WM 08 are charged and correctly paired. Move closer to the detector. |

If problems persist after attempting these solutions, please contact MINELAB customer support or refer to the official MINELAB website for detailed troubleshooting guides.

## 6. Specifications

Detailed technical specifications for the MINELAB Equinox 800 Metal Detector:

| Feature | Specification |
|---|---|
| Brand | MINELAB |
| Model Number | 3720-0002 |
| Item Weight | 2.96 pounds (1.34 kg) |
| Product Dimensions | 12.28"L x 4.96"W x 56.7"H (Extended) |
| Power Source | Battery Powered (Rechargeable) |
| Battery Life | Approx. 12 Hours |
| Operating Frequency | Multi-IQ (5kHz, 10kHz, 15kHz, 20kHz, 40kHz) |
| International Protection Rating | IP54 (Control Unit), Fully Submersible (Coil) up to 10 ft (3m) |
| Display Type | LCD |
| Number of Programs | 4 (Park, Field, Beach, Gold) |
| Included Coil | EQX 11" Double-D Smart Coil |
| Wireless Audio | Bluetooth Headphones & WM 08 Module Included |
| UPC | 811493016702 |

## 7. Warranty and Support

For detailed warranty information, product registration, and technical support, please visit the official MINELAB website. Keep your proof of purchase for warranty claims.

Official MINELAB Website: www.minelab.com

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**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**

### Answered questions about this manual

**Can the MINELAB Equinox 800 battery be charged using a mobile phone charger instead of a computer USB port?**

Yes, you can charge the MINELAB Equinox 800 using a standard USB wall charger (such as a mobile phone charger) instead of a computer USB port. In fact, using a high-quality wall charger is...

**Read full answer**