

Minelab Equinox 700, Equinox 900

Minelab Equinox 700 & 900 Digital Instruction Manual

Your comprehensive guide to metal detecting excellence.

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1. INTRODUCTION TO MINELAB EQUINOX 700 & 900

Welcome to the world of advanced metal detecting with your Minelab Equinox 700 or 900. These detectors are engineered for serious enthusiasts and professionals, offering unparalleled performance across various terrains and target types. Featuring Minelab's revolutionary **Multi-IQ** technology, the Equinox series provides simultaneous multi-frequency operation, ensuring maximum sensitivity to all targets, from tiny gold nuggets to large silver coins, in any ground condition.

This manual will guide you through the assembly, operation, and maintenance of your detector, helping you unlock its full potential. Please read it carefully before your first use.

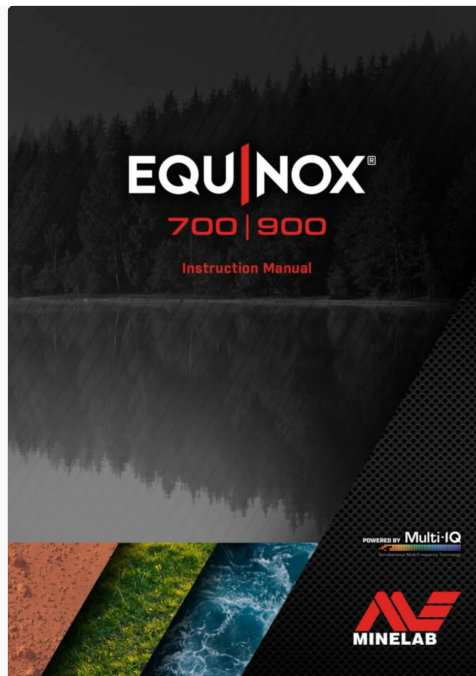


Image 1.1: Front cover of the printed Minelab Equinox 700 and 900 Instruction Manual. This image displays the official branding and model numbers for the manual.

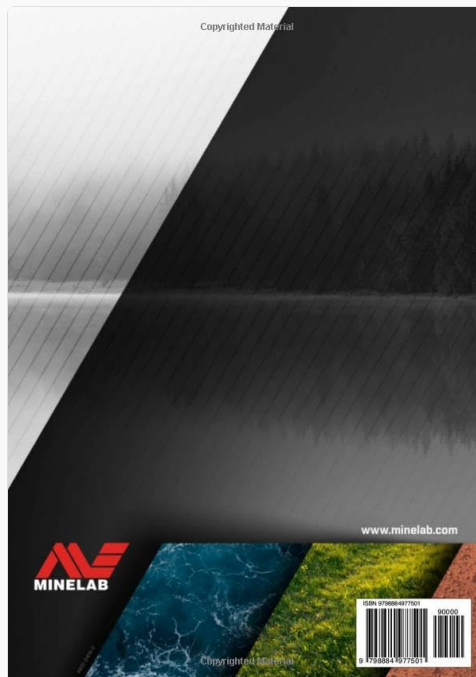


Image 1.2: Back cover of the printed Minelab Equinox 700 and 900 Instruction Manual. This image shows the ISBN and website information for the manual.

2. SETUP AND INITIAL CONFIGURATION

2.1. Assembly

Your Minelab Equinox detector comes in several parts for compact transport. Follow these steps for proper assembly:

1. **Attach the Search Coil:** Secure the search coil to the lower shaft using the provided bolt and washers. Ensure it is snug but do not overtighten.

2. **Connect Shaft Sections:** Slide the middle shaft into the lower shaft, and then the upper shaft (with the control box) into the middle shaft. Adjust the length to a comfortable detecting position and secure with the cam locks.
3. **Wrap the Coil Cable:** Carefully wrap the coil cable around the shaft, ensuring it is not too tight or loose, and plug the connector into the control box. Secure the cable with the provided clips.

2.2. Charging the Battery

Before first use, fully charge your detector's internal Li-Ion battery. Use the supplied magnetic USB charging cable and a compatible USB power adapter (not included). The charging port is located on the back of the control box.

- A full charge typically takes approximately 4 hours.
- The battery indicator on the display will show charging status.

2.3. Powering On/Off

To power on, press and hold the **Power** button until the display illuminates. To power off, press and hold the **Power** button again until the display turns off.

3. OPERATING YOUR MINELAB EQUINOX

Understanding the various settings and modes is key to successful detecting.

3.1. Understanding the Display

The LCD display provides crucial information during operation. Key elements include:

- **Target ID Number:** A numerical value (e.g., 1-99) indicating the probable target type. Higher numbers generally correspond to more conductive targets.
- **Depth Indicator:** Estimates the depth of the target.
- **Battery Level:** Shows remaining battery charge.
- **Search Mode Icon:** Indicates the currently active search mode.
- **Sensitivity Bar:** Displays the current sensitivity level.

3.2. Search Modes

The Equinox 700/900 offers four primary search modes, each optimized for specific detecting environments:

- **Park:** Ideal for high-trash areas like parks and urban environments.
- **Field:** Best for general detecting in open fields, agricultural land, and relic hunting.
- **Beach:** Optimized for wet and dry sand, and underwater detecting, handling saltwater mineralization effectively.
- **Gold:** Specifically designed for prospecting in mineralized goldfields, enhancing sensitivity to small gold nuggets.

To switch between modes, press the **Mode** button and select your desired environment.

3.3. Key Settings

- **Sensitivity:** Adjusts the detector's responsiveness to targets. Higher sensitivity increases depth but can also increase ground noise. Start with a moderate level and increase as ground conditions allow.

- **Noise Cancel:** Automatically reduces electromagnetic interference (EMI) from power lines, other detectors, or electrical devices. Perform a Noise Cancel before each detecting session or when experiencing excessive chatter.
- **Ground Balance:** Calibrates the detector to the specific ground mineralization, eliminating false signals from the soil. Automatic Ground Balance is recommended for most users.
- **Discrimination:** Allows you to accept or reject certain target IDs. Rejecting low ID numbers can filter out iron trash, but be cautious not to reject desirable targets.
- **Volume & Tone:** Customize audio settings for target responses. Adjust overall volume and choose between single tone, multi-tone, or pitch tone options.
- **Pinpointing:** Press the **Pinpoint** button to narrow down the exact location of a detected target.

4. MAINTENANCE AND CARE

Proper care ensures the longevity and optimal performance of your Minelab Equinox detector.

- **Cleaning:** After each use, wipe down the detector with a damp cloth. For saltwater use, rinse the coil and lower shaft with fresh water. Ensure all connections are dry before storage.
- **Battery Care:** Avoid fully discharging the battery frequently. For long-term storage, charge the battery to approximately 50-70%. Store in a cool, dry place.
- **Storage:** Store your detector in a clean, dry environment, away from extreme temperatures and direct sunlight.
- **Software Updates:** Periodically check the official Minelab website for firmware updates. Updates can improve performance and add new features.

5. TROUBLESHOOTING COMMON ISSUES

Here are solutions to some common problems you might encounter:

Problem	Possible Cause	Solution
No power / Detector won't turn on	Low battery; loose connection; faulty power button.	Charge the battery fully. Check all cable connections. If problem persists, contact support.
Excessive chatter / False signals	High sensitivity; EMI; poor ground balance; highly mineralized ground.	Reduce sensitivity. Perform Noise Cancel. Re-ground balance. Switch to a lower frequency or a different search mode.
Poor depth performance	Low sensitivity; incorrect ground balance; highly mineralized ground; small coil size.	Increase sensitivity (if ground conditions allow). Ensure proper ground balance. Consider a larger coil for deeper targets.
Inaccurate Target ID	Target masking; multiple targets; target depth; ground mineralization.	Slow down sweep speed. Try sweeping from different directions. Adjust discrimination settings.

If you encounter issues not listed here or if the suggested solutions do not resolve the problem, please refer to the official Minelab support resources.

6. TECHNICAL SPECIFICATIONS

Below are the general specifications for the Minelab Equinox 700 and 900 series. Note that some specifications may vary slightly between models.

- **Operating Frequencies:** Multi-IQ (Simultaneous Multi-Frequency), 4kHz, 5kHz, 10kHz, 15kHz, 20kHz, 40kHz (Equinox 900 adds 40kHz).
- **Search Modes:** Park, Field, Beach, Gold.
- **Waterproof:** Up to 5 meters (16 feet) for both detector and coil.
- **Weight:** Approximately 1.2 kg (2.6 lbs) (varies slightly with coil).
- **Display:** Monochrome LCD (Equinox 700), Color LCD (Equinox 900).
- **Audio Output:** In-built loudspeaker, wired 3.5mm headphones, wireless headphones (Bluetooth, aptX™ Low Latency).
- **Battery:** Internal rechargeable Li-Ion battery.
- **Coils:** Compatible with Minelab Equinox series coils (e.g., EQX 11 Double-D, EQX 6 Double-D, EQX 15x12 Double-D).
- **Ground Balance:** Automatic, Manual, Tracking.
- **Target ID:** -19 to 99.

7. SUPPORT AND WARRANTY INFORMATION

7.1. Product Support

For further assistance, detailed FAQs, and the latest firmware updates, please visit the official Minelab website:

www.minelab.com

You can also find contact information for customer service and authorized service centers on their website.

7.2. Warranty

Minelab products are covered by a limited warranty. The specific terms and duration of the warranty may vary by region and product model. Please retain your proof of purchase. For complete warranty details, including coverage and how to make a claim, refer to the warranty documentation included with your detector or visit the official Minelab website.

Note: This digital manual provides general guidance. Always refer to the official Minelab resources for the most current and detailed information regarding your specific Equinox 700 or 900 model.