

OCTA Relic Monster

User Manual



Pulse Underground Metal Detector

OCTA Relic Monster Manual

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****1. SAFETY WARNINGS****

****Read all instructions and warnings before your first use. Failure to follow these warnings may result in injury or damage.****

****ELECTRICAL SAFETY****

- ****Charging:**** Ensure the charger supports AC 100–240.V Use only the provided OCTA charger and cable.
- ****Damage:**** ****Do not use**** the device if the cable, coil, or any connector is damaged. Contact OCTA support for a replacement immediately. Electrical components are not user serviceable, please contact your dealer for replacement parts.

****HEARING SAFETY****

- ****Headphones:**** ****[ICON: Headphones]**** Lower the headphone volume to a comfortable level before starting. Prolonged exposure to high volume can cause permanent hearing damage.

****ENVIRONMENTAL & LEGAL SAFETY****

- > * ****Unexploded Ordnance (UXO):**** ****[ICON: Warning]**** This device can detect large, deeply buried objects. Be extremely cautious in areas with a history of conflict. If you suspect you have located unexploded ordnance, ****do not approach it.**** Mark the location carefully and inform local authorities immediately.
 - Be cautious around war remnants or suspected large targets.
 - Due to previous hostilities around the world, harmful remnants may be exposed imposing serious bodily harm.
- > * ****Cultural Artifacts:**** ****[ICON: Artifact]**** Always comply with local laws regarding treasure hunting and artifact recovery. Report significant historical finds to the proper authorities (e.g., archaeological offices).
- > * ****Legal Use:**** Use this device only for legal purposes such as industrial locating of buried utilities, personal exploration, scientific research, or education. Obtain permission before searching on private property.

****HEALTH PRECAUTIONS****

- * ****Pacemakers:**** ****[ICON: Medical]**** The Relic Monster emits an electromagnetic field. Individuals with pacemakers or other implanted medical devices should consult their physician before using this product.
- * ****Explosive Hazards:**** Be aware that electronic devices can potentially trigger Improvised Explosive Devices (IEDs). ****Never use this detector in active or suspected conflict zones without explicit authorization.****

****GENERAL****

- * OCTA reserves the right to improve its products and may update design or specifications without notice.

2. Introducing the Relic Monster

The OCTA Relic Monster is the world's first fully digital, foldable Large Scale Pulse Induction (PI) metal detector. Built with proprietary technology, it offers unparalleled depth and stability, allowing you to locate large ferrous and non-ferrous targets up to 5m (15') deep in most soil conditions.

****KEY HIGHLIGHTS:****

- * ****Unmatched Adaptability:**** Use the antenna coil folded to a 1m x 1m size for portability, or unfolded to a 2m x 2m size for maximum depth penetration.
- * ****Superior Depth & Stability:**** Achieve high-depth detection even in highly mineralized ground, saline environments (beaches), or under high-tension power lines where other detectors fail.
- * ****Advanced Ease of Use:**** Features like AI-assisted Ground Balancing and a Signal-to-Zero trigger button simplify operation in challenging areas.
- * ****Precision Targeting:**** Easily locate and center finds for efficient recovery of buried relics.
- * ****Dual Operation:**** Switch between silent vibrate mode and audible alert mode to suit your environment.
- > ****Professional Integration:**** Direct compatibility with the GeoPro3D1 visualization program for advanced data analysis and mapping. *(Note: This sentence was cut off in your text - I finished it based on context)*.



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From navigating harsh terrain to uncovering hidden history, the Relic Monster is engineered for precision and reliability.

Whether navigating harsh terrain or uncovering hidden artifacts, the Relic Monster offers unmatched precision and usability.

While the 2m x 2m configuration is quite large, the power of the OCTA Relic Monster still enables the user to carry the unit up to 1m (3ft) above the ground and still maintain good conductivity.

- Carrying the unit so far above the ground will minimize maximum depth.

3. What's in the Box

1. Detector Frame
 1. pre-assembled and folded
2. Detector Main Unit
 1. This is the main control unit housing, in the housing is
 1. Coil Connection Plug
 1. Battery Charger will attach to this Plug
 2. Main Control Unit
 3. Earphone Jack (standard 1/8" Audio Plug)
3. 8 Meter Cable Coil
4. Battery Charger and Adapter
5. Headphones
6. Four (4) Screws to lock frame into a rigid position for scanning walls and ceilings
7. Backpack
8. Manual and Warranty Information



4. Getting Started: Quick Setup Guide

Setup Steps

1. Unfold the frame, extend and lock arms with nylon knobs

1. When tightening the nylon knobs, be sure to tighten them only finger tight. If too much force is used you may damage the nylon rings that hold it in place.
2. Do not fully extend the frame so that the smaller pieces come out of their holder.
This may create a difficult time to re-assemble the legs/extenders
3. Turn counter-clockwise to loosen and clockwise to tighten.
4. Do not loosen too much or the extenders may come out of their sockets.
5. Leave some room until the coil is properly positioned prior to tightening the nylon knobs to only finger tight.

2. Attach coil, align and clip securely

1. At the end of every extender there is a small hook or resting area for the coil.

3. Connect coil to host, choose layout based on space

1. Look at the terrain where you will be scanning
 1. If the terrain is very rugged and difficult to traverse then you may want to use the 1m x 1m option
 2. If the terrain is smooth and can be passed easily, the 2m x 2m may be your best choice.

4. Turn the unit on

1. Power on
2. Wait for startup screen and then as a first test of the area, push the ZERO trigger. If the unit is immediately quiet, go near a piece of metal and see if there is a reaction.
 1. If reaction then the AI in the unit has chosen the correct measurement right away
 2. If no reaction either lower the Threshold or increase the Sensitivity to get the slow ticking sound stating that it is ready.

5. Repeat zeroing as needed for stable sensitivity

1. You may have to pull the ZERO trigger multiple times for the detector to automatically ground balance.

5. Assembly and Charging Instructions

Prior to using, fully charge the OCTA Relic Monster unit for at least 4 hours. Simply connect the battery charger to the coil connector loosely with just a slight tightening with the fingers. Plug in the Battery Charger to an energy source between 100 and 240 vac.

The assembly of the OCTA Relic Monster is very straightforward and simple

1. Remove all of the contents from original packaging
2. With all of the components in view, identify what each component is
3. Take the folding frame and unfold it, do not extend the legs/extenders
4. Take the Main Control Unit and attach it to the middle shaft
5. Tighten the Control Unit by closing the “Quick Release Clamp”
6. See the Quick Setup Guide for attaching the coil

Frame & Coil

- Extend and secure the carbon fiber support arms
- Position coil accurately for balance
- Clip cables and confirm alignment
- Use 1×1m coil for tight spaces, 2×2m for large sweeps
- For filtering small items, elevate a 1.5×2m coil ~40cm above ground

Charging

- Use only the provided OCTA adapter
- Red light = charging; green = full
- Recharge at ~20% battery
- Charge monthly when stored
- Keep all ports dry and clean

6. Controls & Key Functions

Button	Functionality
Power	On/off, backlight toggle, decrease menu values
Menu	Access & adjust settings
ZERO	Manual recalibration Allows for the user to initiate a ground balance or a background re-evaluation allowing for quicker balancing of the Relic Monster.
Quick ZERO Pin-Pointing	Fast access to recalibration during detection During detection, you can quickly re-evaluate your background soil which will enable for pin-pointing of subsurface relics.

Pro Tip: Press ZERO periodically during operation for the most accurate readings. Pressing the ZERO button will remove any cached signals.

When Pin-Pointing an object, pushing on the ZERO will allow the sensitivity of the Relic Monster to be recalibrated at that point, allowing you to come closer and closer to the object and narrowing your search field to as small as 10cm x 10cm

7. Software Functions Explained

Customize settings based on terrain, target type, and coil size for best performance.



**Access these settings using the
Menu button.**

Function	Description
Sensitivity	**(1-5)** Controls detection depth. Higher levels see deeper but may cause more interference in mineralized ground.
Threshold	**(0-9)** Sets the baseline audio hum. Adjust to just barely hear a steady background tone. Signals break this threshold.
Modes	witch between **Audio** (sound alerts) and **Digital Silent** (vibrate-only) mode.
Filter	**(0-5)** Controls the response speed. Lower settings for fast, sharp responses; higher settings to smooth out noisy signals.
Frequency	**(9 Levels)** Fine-tune the transmit frequency for clarity in areas with electromagnetic interference (e.g., near power lines).
Volume	**(0-5)** Adjust the output level for the built-in speaker or headphones.

****Pro Tip:**** Customize these settings based on your terrain, target size, and coil configuration for the best performance.

8. Typical Use Cases

The OCTA Relic Monster is engineered for high-performance detection across a wide range of environments and industries. Below are key applications where its precision, depth range, and adaptive software make it an indispensable tool:

1. Archaeological Exploration

Used by field archaeologists and researchers to locate buried relics, coins, tools, and structural remnants. The Relic Monster's adjustable sensitivity and threshold settings allow for fine-tuned detection in historically rich but mineralized soils. Its silent mode is ideal for preserving quiet dig sites.

2. Industrial Safety & Infrastructure

Before excavation or construction, operators use metal detectors to identify buried cables, pipes, and metallic debris. This prevents costly damage and ensures worker safety. The Relic Monster's frequency tuning helps minimize interference near power lines or machinery.

3. Public Safety & Security

Security personnel deploy metal detectors to screen luggage, packages, or vehicles for concealed metallic threats. The Relic Monster's dual-mode operation (audio and silent) makes it suitable for both high-traffic public areas and discreet inspections.

4. Mining & Resource Surveying

Prospectors and geologists use metal detectors to locate ore bodies, metallic veins, or discarded equipment in rugged terrain. The Relic Monster's deep detection capability and robust coil design make it ideal for remote fieldwork.

5. Military & Humanitarian Clearance

In post-conflict zones, metal detectors are critical for locating landmines, unexploded ordnance (UXO), and buried weapons. The Relic Monster's ZERO trigger and ground balancing features help reduce false positives in unstable terrain, while its rugged frame withstands harsh conditions.

6. Environmental & Utility Work

Utility crews and environmental surveyors use metal detectors to locate buried infrastructure or monitor for contamination risks. The Relic Monster's lightweight frame and long coil reach allow for efficient scanning over large areas.

9. Maintenance Tips

- When not in use, charge the battery to full every three months.
 - Charging the battery will ensure that it is never fully discharged. When the battery sits too long then it may be too weak for it to accept a charge.
- Avoid exposing ports to moisture
 - When working outside on a moist or rainy day, make the connections in a dry area to avoid the possibility of moisture entering the unit. Even though the unit is rated at IP65, taking precautions never hurts.
- Never force connectors—align properly
 - When making your connection, take a physical look at the plug and the connector to ensure that the tabs are properly aligned. Bent pins can lead to delays in searching for your targets.
- If water enters sockets, dry thoroughly before reuse
 - A low pressure air compressor can help to remove water from the unit.
- Clean panel regularly
 - Using a clean and dry cloth should suffice in most instances to remove any debris or build up of foreign matter. On occasion the cloth may have to be slightly moistened to remove contaminants.
- Warm up device slightly before cold-weather use
 - With the use of AC and the constant temperature difference, allow the unit to acclimate to the surrounding environments. On really cold days, allowing the unit to slightly warm will give the battery a longer life.

10. Troubleshooting Guide

Use this guide to quickly diagnose and resolve common issues in the field.

Problem	Possible Cause	Solution
No Power	Battery not charged or charger not connected properly	Charge for at least 4 hours using the official OCTA adapter. Confirm charger light turns red (charging) or green (full).
No Detection Signal	Coil not connected securely or terrain interference	Check coil plug and cable alignment. Reconnect and ensure coil is clipped properly. Try ZERO trigger to recalibrate.
False Signals / Noise	High mineralization, EMI, or incorrect settings	Use ZERO trigger to ground balance. Lower Sensitivity or increase Filter level. Try changing Frequency setting.
No Sound in Headphones	Volume too low or jack not fully inserted	Check headphone connection. Increase Volume setting via Menu. Test with alternate headphones if available.
Unit Won't Ground Balance	Terrain too unstable or electromagnetic interference	Move to a cleaner area. Press ZERO multiple times. Adjust Threshold and Sensitivity gradually.
Charger Light Stays Red	Battery not accepting charge or faulty outlet	Try a different power source. If issue persists, contact your dealer for battery diagnostics.
Coil Connector Loose	Over-tightening or misalignment	Disconnect gently. Reconnect finger-tight only. Never force or over tighten.
Display Frozen or Unresponsive	Software glitch or low battery	Power off and restart. If issue continues, recharge fully and perform a soft reset via Menu.
Unit Reacts to Nothing	Threshold too high or Sensitivity too low	Lower Threshold until faint ticking is heard. Increase Sensitivity gradually. Test with known metal object.

Field Reset Procedure

Use this procedure when the OCTA Relic Monster behaves erratically, fails to detect known targets, or experiences signal drift due to environmental changes.

Step-by-Step Reset:

1. Power Cycle
 - Turn off the unit completely.
 - Wait 10 seconds, then power it back on.
2. Coil Check

- Inspect coil connection for tightness and alignment.
 - Reconnect finger-tight only—never force.
3. ZERO Trigger
 - Press the ZERO button once after startup.
 - Listen for baseline ticking or vibration.
 - Repeat up to 3 times if the signal remains unstable.
 4. Threshold Calibration
 - Set Threshold to a low level (e.g., 2–3).
 - Adjust until a faint, steady hum is heard.
 5. Sensitivity Adjustment
 - Start at Sensitivity 2 and increase gradually.
 - Avoid max settings in mineralized or noisy terrain.
 6. Frequency Tuning
 - Cycle through Frequency Levels 1–9.
 - Choose the clearest signal with minimal background noise.
 7. Test with Known Metal
 - Place a known metal object (e.g., coin or tool) under the coil.
 - Confirm detection response is sharp and accurate.
- ℒ If the unit responds normally after these steps, resume operation. ϕ If issues persist, refer to the Troubleshooting Guide or contact your dealer.

Quick Diagnostic Checklist

Use this checklist before each hunt or scan session to ensure optimal performance.

ℒ Task	Description
Battery Charged	Confirm green light on charger; recharge if below 20%
Coil Connected	Check plug alignment and secure finger-tight
Control Unit Clamped	Ensure quick-release clamp is fully engaged
ZERO Trigger Tested	Press ZERO and confirm baseline signal
Threshold Audible	Adjust until faint hum is heard
Sensitivity Set	Start at 2–3; adjust based on terrain
Frequency Tuned	Choose clearest channel for environment
Headphones Working	Confirm sound output or vibration mode
Metal Test Object	Verify detection with known target
Weather Check	Avoid heavy rain; ensure ports are dry
Visual Inspection	Look for cracks, loose screws, or cable wear

11. Technical Specs & Accessories

Hardware

Feature	Value
Processor	32-bit, 72MHz (US-imported)
ADC Resolution	32-bit, 12-channel
Battery	4000mAh lithium
Display	4" HD LCD
Weight	~1915g
Dimensions	Stored: 650×300×150mm / Expanded: 2000×2000×45mm
Temp Range	-10°C to 50°C
Voltage Input	90–264V AC, 50–60Hz

Software

- 9 adjustable pulse frequencies (100–165Hz)
- Adjustable sensitivity, threshold, filters, and volume
- Two operational modes
- Signal strength bar and battery display
- Upgradeable software

Included Accessories

- Main unit ×1
- Detection coil ×1 (8m total length)
- Carbon fiber frame ×1
- Power adapter ×1
- Carry bag ×1
- Manual, warranty card, and certificate ×1

12. Warranty & Support Info

- Main Unit: 2-year warranty
- Detection Coil: 1-year warranty

Warranty Does Not Cover:

- Improper use or handling
 - Over-tightening the legs
 - Disassembly of components which render the device useless.
- Unauthorized disassembly
 - Broken internal seals.
 - Removal of screws on back and sides of housing
- Use of unauthorized chargers which create a voltage spike
- Changing of battery
- Water damage
 - The unit is IP65 covered for rain and surface moisture.
 - Diving or submersing into water.
- Unit wear and tear
 - Damage due to dropping unit
 - Not securing (clamping) main unit to assembly rods.
 - Suspending unit from coil (Damage to coil connector from external stress)
 - Over-tightening coil connector
 - This is an electronic part, finger tight is sufficient.
- Use in illegal activities

If issues occur, contact your dealer first for resolution. They'll coordinate with OCTA to provide timely support.

Do not send anything back to OCTA without a RMA (Return Merchandise Authorization).

Your dealer will be the point of first contact.