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OKM 3211

OKM Fusion Light Metal Detector User Manual

Model: 3211

Introduction

The OKM Fusion Light is an easy-to-use ground scanner designed for treasure hunters and prospectors. It is specifically engineered to detect buried artifacts and hidden treasures within cavities such as tombs, tunnels, and subterranean caches. This special edition combines the powerful application properties of the Fusion Professional with the flexibility and usability of the Rover UC, providing a versatile tool for various detection tasks.

This manual provides essential information for the proper setup, operation, and maintenance of your Fusion Light metal detector. Please read it thoroughly before using the device to ensure safe and effective operation.

Safety Information

- Always operate the device in a safe environment, away from active construction sites or hazardous areas.
- Do not attempt to open or modify the device. Unauthorized modifications will void the warranty and may cause damage.
- Keep the device away from extreme temperatures, direct sunlight for prolonged periods, and excessive moisture. The device has an IP40 protection type, meaning it is protected against solid objects larger than 1mm but is not waterproof.
- Use only the original charger and battery provided with the device.
- Ensure proper ventilation when charging the battery.
- Store the device in its protective case when not in use to prevent damage.

Product Overview

The Fusion Light system comprises the main detector unit, a control unit (smartphone), and a laptop for detailed data analysis. The detector unit is a lightweight, cylindrical probe designed for easy handling during ground scans.

Figure 1: The complete OKM Fusion Light system, showing the main detector unit, a laptop for data visualization, a smartphone for control and initial display, and a robust carrying case for transport and protection.

Figure 2: The Fusion Light detector unit, a long cylindrical probe, shown alongside the smartphone which serves as the primary control

and display interface during operation.



Figure 3: A detailed view of the control button located on the Fusion Light detector. This button is used for initiating scans and navigating through basic functions.

Components:

- **Fusion Light Detector Unit:** The main sensing device.
- **Control Unit (Smartphone):** Used for real-time data display and controlling the detector.
- **Analysis Software (Laptop):** For in-depth 3D visualization and analysis of scan data.
- **Charger:** For recharging the Lithium-Ion battery.
- **Transport Case:** A durable case for safe storage and transportation.

Setup

1. **Charge the Battery:** Before first use, fully charge the Fusion Light detector's internal Lithium-Ion battery using the provided charger. A full charge provides approximately 12 hours of operating time.
2. **Install Software:** Install the OKM Fusion Light application on your smartphone and the analysis software on your laptop. Ensure both devices meet the minimum system requirements.
3. **Pair Devices:** Follow the instructions in the smartphone application to pair it with the Fusion Light detector via Bluetooth. Ensure the detector is powered on.
4. **Initial Calibration:** Perform an initial calibration as prompted by the software. This ensures accurate readings.

Operating Modes

The Fusion Light offers two primary operating modes for different detection needs:

1. 3D Ground Scan

This mode is ideal for detecting underground cavities, tunnels, and buried artifacts. It generates a 3D graphical representation of the subsurface, allowing for detailed analysis of anomalies.

- Aids treasure hunters in finding underground cavities and artifacts.
- Discoveries can be displayed on the smartphone with the OKM Fusion Light App for initial analysis, and further detailed analysis on a laptop.

2. Magnetometer

The Magnetometer mode is used to detect magnetic field anomalies, which can indicate the presence of ferrous metals (iron, steel) or other magnetic disturbances in the ground.

- Magnetic field anomalies quickly appear on the smartphone screen.
- Useful for easy detection of artifacts, treasure chests, and other ferrous items.



Figure 4: Examples of data visualization within the OKM Fusion Light app, demonstrating the Magnetometer (top) and 3D Ground Scan (bottom) modes.

Operation

Operating the Fusion Light involves systematic scanning of the target area and real-time monitoring of data on the connected smartphone.

Performing a Scan:

1. **Select Mode:** On the smartphone app, select either "3D Ground Scan" or "Magnetometer" mode based on your detection objective.
2. **Define Scan Area:** If using 3D Ground Scan, define the scan area and scan lines within the app.
3. **Start Scan:** Hold the Fusion Light detector vertically and press the control button to begin the scan.
4. **Walk Scan Lines:** Walk slowly and steadily along the predefined scan lines, keeping the detector at a consistent height above the ground. The app will guide you.
5. **Monitor Data:** Observe the real-time data visualization on your smartphone. Anomalies will appear as color changes or distinct patterns.
6. **Save Data:** Once the scan is complete, save the data within the app for later, more detailed analysis on your laptop.

Figure 5: A user actively scanning with the Fusion Light detector, demonstrating the typical posture and interaction with the smartphone for real-time data monitoring.

Figure 6: The Fusion Light detector in use, showing the user walking across varied terrain while performing a ground scan.

Depth Range:

The Fusion Light is capable of detecting objects and structures down to a depth of approximately 8 meters (26 feet), depending on the soil conditions and the size/type of the target.



Figure 7: Visual representation of the Fusion Light's impressive depth penetration, capable of detecting targets up to 26 feet (8 meters) below the surface.

Data Analysis

For comprehensive analysis of your scan data, transfer the saved files from your smartphone to the laptop running the OKM analysis software. This software provides advanced tools for 3D visualization and interpretation.

- View detailed 3D graphics of the scanned area.
- Identify anomalies, determine their depth, size, and potential shape.
- Utilize various filters and visualization options to enhance interpretation.

Figure 8: The Fusion Light detector, laptop, and smartphone arranged on a tree stump, illustrating the setup for field data analysis and review.

Maintenance

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

- **Cleaning:** After each use, wipe down the detector unit with a soft, dry cloth to remove dirt and dust. Do not use abrasive cleaners or solvents.
- **Storage:** Always store the detector and its components in the provided transport case when not in use. Store in a cool, dry place.
- **Battery Care:** Recharge the battery regularly, even if the device is not used frequently, to maintain battery health. Avoid fully discharging the battery for extended periods.
- **Software Updates:** Periodically check for software updates for both the smartphone app and the laptop analysis software to ensure you have the latest features and bug fixes.

Troubleshooting

Problem	Possible Cause	Solution
Device does not power on.	Low or depleted battery.	Charge the device fully.
Cannot connect to smartphone app.	Bluetooth is off; device not paired; app error.	Ensure Bluetooth is enabled on both devices. Re-pair the device. Restart the app and detector.
Inaccurate scan results.	Improper calibration; environmental interference; incorrect scanning technique.	Perform calibration. Avoid scanning near large metal objects or strong electromagnetic fields. Ensure consistent walking speed and height.
App crashes or freezes.	Outdated app version; insufficient phone resources.	Update the app to the latest version. Close other applications on your phone. Restart the phone.

If you encounter issues not listed here, please refer to the support section or contact OKM customer service.

Specifications

Feature	Detail

Feature	Detail
Model Number	3211
Operating Modes	3D Ground Scan, Magnetometer
Max. Detection Depth	8 m (26 ft)
Dimensions (H x W x D)	31.5" x 2.6" diameter
Weight	Approx. 1.5 lb (0.68 kg)
Input Voltage (max.)	19 V DC, 3.16 A
Battery Type	Lithium-Ion (2600 mAh)
Operating Time	Approx. 12 hours
Waterproof	No
Protection Type	IP40
Operating Frequency	7.69 KHz
Material	Aluminum or Plastic (ABS or PVC)

Warranty and Support

The OKM Fusion Light comes with a **2-year warranty**. This warranty includes comprehensive service and support for users of all experience levels.

- **Exclusive Service:** Access to service at OKM headquarters in Germany.
- **Instruction:** 1 hour of instruction for your device.
- **Technical Support:** 90 days of technical support with a personal contact.

For warranty claims, technical assistance, or further inquiries, please contact OKM customer support through their official website or the contact information provided at the time of purchase. Please have your model number (3211) and purchase details ready when contacting support.

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