

# CEIA MIL-D1/DS

## PORTABLE DIGITAL METAL DETECTOR

### Overview

The MIL-D1/DS is an EMI (electromagnetic induction) active mine detector designed to locate deeply buried Unexploded Ordnance (UXO) and larger metal masses. It operates using transmission of an alternating, low-frequency magnetic field and detection of the variations introduced into this field by buried metal masses. The detector consists of a telescopic pole with a central aluminum section and fiberglass extensions. The two probe-antennae which act as transmitter and receiver of the magnetic field are mounted at the ends of the extensions. Detection signals are provided by an audible tone and an LCD located on the front panel of the control unit.

### Features

- High sensitivity, useful for detecting metal masses at depth
- Capacity for discrimination between surface metal masses and those of interest
- Compensation for mineralized soils and total immunity to the effects of the terrestrial magnetic field
- High stability of detection system, which shows no drift over time or with variations in environmental conditions
- Intrinsic reliability and extremely high resistance to shock and mechanical stress, essential requirements for a long operating life
- Superior detection depth
- Accurate localization
- Total immunity to terrestrial magnetic anomalies
- Static and dynamic detection, independent of the speed of transit of the detector head
- Lightweight, ergonomic search probe for maximum comfort
- Completely digital electronics, with in-the-field program memory upgrade capability
- Extremely high level of electrical and mechanical reliability
- Ease of use with minimum training time required
- Operation monitored by a microcomputer-controlled auto diagnostic system with audible warnings signals

### Design & Construction

- Detector consists of a telescopic pole with an aluminum central section and two fiberglass extensions
- Two probe-antennae, mounted at the end of the extensions, act as transmitter and receiver of the generated magnetic field
- High-impact polypropylene case, dust-proof and water-proof (IP68: IEC-529)



### Technical Specifications

- Power Supply: 1.5V Alkaline (LR20) or 1.2V NiMH Rechargeable (>7000 mA/h)
- Operating Temperature: -50.8°F to 149°F (-46°C to 65°C)
- Storage Temperature: -67°F to 167°F (-55°C to 75°C)

### Size and Weight

- Case: 38.4 in (97.5 cm)
- Probe head and telescopic handle: 8.6 lbs (3.9 kg)
- Electronics unit (including batteries): 3.5 lbs (1.6 kg)
- Case: 17 lbs (7.7 kg)



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