MIL-D1®

STATE-OF-THE-ART DIGITAL METAL DETECTOR

FOR GROUND SEARCH APPLICATIONS

NSN: 6665-15-1626752

FEATURE HIGHLIGHTS

- **Effective detection** of magnetic, non-magnetic and stainless-steel metal masses
- **Accurate pinpointing of the target's position** using a bitonal system and acoustic modulation proportional to the dimensions of the detected mass
- **High discrimination capability** for adjacent metal masses
- **Compensation for mineralized and high natural metal content soils**
- **Static and dynamic detection** independent of the speed of transit of the detector head
- Very long-lasting battery charge
- **Light, ergonomic detection head** designed for continuous use
- Extremely **high level of electrical and mechanical Reliability**
- Operation monitored by a microcomputer-controlled autodiagnostic system
- **Completely digital electronics**, with in-the-field program memory upgrade capability
- **Ease of use** with minimum training time required



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CEIA MIL-D1®

Thanks to many years of in-depth research in the field of Metal Detection, CEIA has established itself as a primary international manufacturer of **high-performance Ground Search Metal Detectors**

LEADER IN PERFORMANCE AND RELIABILITY

The MIL-D1 is a portable, high-sensitivity Metal Detector designed to detect magnetic and non-magnetic metals in all soils, including laterite and magnetite. The Metal Detector comprises a detection head, a telescopic handle, an electronics unit, a canvas carry-bag and a High Impact Polypropylene Case.

LIGHT, ERGONOMIC DETECTION HEAD

The detection head is light, and the wiring is designed to be protected from any possible damage. The electronics unit can be carried over the shoulder, attached to a belt using special hooks, or as an integral part of the telescopic handle.

EXCLUSIVE AUTOMATIC SOIL COMPENSATION SYSTEM

The MIL-D1 Metal Detector does not require any manual calibration; in addition, **optimum sensitivity is ensured over all types of terrain due to CEIA's exclusive Automatic Soil Compensation System**. Localisation of metal objects is optimised by a two-tone audible pinpointing system, which allows the position of the detected mass to be identified accurately.

The Detector is manufactured in compliance with the ISO- 9001 standard, and has been designed to satisfy the most stringent operational requirements for underground search applications.



CEIA PROVIDES COMPLETE SUPPORT FOR TECHNICAL AND OPERATIONAL COURSES, GIVEN BY CERTIFIED PERSONNEL, EITHER ON SITE OR AT ITS OWN PREMISES



LOCALISATION OF METAL OBJECTS IS OPTIMISED BY A TWO-TONE AUDIBLE PINPOINTING SYSTEM, WHICH ALLOWS THE POSITION OF THE DETECTED MASS TO BE IDENTIFIED ACCURATELY



The CEIA MIL-D1® Metal Detector obtained the highest marks in controlled comparative tests for:

- **Detection**
- **Ease of operation**
- **Reliability**
- **Ease of maintenance**

OPERATIONAL TESTS ON MINERALISED SOILS AT THE CEIA TEST SITE



PROPRIETARY ENGINEERING CONSISTING OF A POWERFUL ANALYTICAL ENGINE DESIGNED EXCLUSIVELY BY CEIA SPECIFICALLY FOR METAL DETECTION

COMPLETE SUPPORT FOR TECHNICAL AND OPERATIONAL COURSES

CEIA provides complete support for technical and operational courses, given by certified personnel, either on site or at its own premises. The curriculum includes **First and Second Line Maintenance, Training for operators and a Course for operator Instructors**.

The teaching activities are backed up by full documentation, and are divided between classroom seminars and practical work in the field.

QUALITY MEANS SAFETY

Thanks to the extensive use of robotic and automated production systems, CEIA is able to offer to the commercial market equipment that satisfies military quality and reliability standards at extremely competitive prices.

ACCESSORIES

GSMD-FPK FIELD PROGRAMMING KEY



- Direct connection to the Headphone control unit connector
- Requires no external power source
- Device Updating time: ~ 3 min
- Unique design
- Very easy to use
- Most compact and rugged programming unit available
- Waterproof and reliable. No maintenance required
- Complete and accurate reprogramming of program memory and operational parameters
- Verifies automatically equipment model and compatibility



MIL-D1 REMOTE PROGRAMMER

MIL-D1 REMOTE PROGRAMMER

The Remote Programmer unit has been designed **to control selectable operating parameters and to upgrade the software of the MIL-D1** Metal Detectors. This operation takes about three minutes and can be performed in the field. The operation of this device does not require dedicated batteries.

TECHNICAL MAINTENANCE TOOL KIT

The Maintenance Tool Kit is a complete, self-contained tool kit designed specifically for MIL-D1 Maintainers. It includes **all tools required for any maintenance and repair requirements**. **The strong, compact, watertight case** allows the use of the Kit everywhere and in all conditions, so as to keep the device in perfect operating condition.

TRAINING SET

The Training Set includes various reference samples, **designed to test the detection of samples at different depths**. It is a versatile training tool for different detection techniques, and is also suitable for testing various metal detectors. The kit is supplied complete with Certification of Conformity to the Primary Reference Sample.



TRAINING SET



CEIA MIL-D1®

The detector is manufactured in compliance with the **ISO-9001** standard and has been designed to **satisfy the most stringent operational requirements** in any application field

THE ELECTRONICS UNIT CAN BE CARRIED OVER THE SHOULDER, ATTACHED TO A BELT USING SPECIAL HOOKS, OR AS AN INTEGRAL PART OF THE TELESCOPIC HANDLE

TRANSPORTATION



VIEW OF THE MIL-D1
INSIDE ITS TRANSPORT CASE

NATO NUMBER

MIL-D1: 6665-15-1626752
MANUFACTURER: A5681

TECHNICAL DATA

POWER SUPPLY	Types of batteries (4x), ANSI Standard, type D 1.5V Alkaline (LR20) 1.2V Ni-Mh rechargeable
BATTERY LIFE	Battery life at 20°C (default search program): - with alkaline batteries: ≥ 65 hours - with Ni-Mh (9000 mA/h) rechargeable batteries: ≥ 40 hours
	Battery charge indicator
METAL ALARM	Adjustable sensitivity
	Audible alarm with adjustable volume
DIMENSIONS	**External diameter of probe head**: 280 mm
	Handle to Search Head adjustable distance: from 400 to 1620 mm (head included)
	Electronics unit: 215 x 155 x 80 mm
	Case: 950 x 440 x 155 mm
WEIGHT	**Probe head and telescopic handle**: 1.6 kg
	Electronics unit: 1 kg (without batteries)
	Case: 7,7 kg
	Carry-bag: 1,1 kg
ENVIRONMENTAL	**Storage temperature**: -55 °C to +75 °C
	Operational temperature: -46 °C to +65 °C
	Meeting and exceeding the most relevant environmental Standards
LEVEL OF PROTECTION	IP68 (IEC 60529)
	Carry bag in water-resistant synthetic canvas

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