

# CEIA CMD<sup>®</sup>

## VERY HIGH PERFORMANCE COMPACT METAL DETECTOR



### FEATURE HIGHLIGHTS

- > Effective Detection of all metal and minimum-metal content targets
- > Balanced, Lightweight design
- > Small packaging size
- > Accurate pin-pointing of the target's position indicated by:
  - acoustic modulation
  - maskable led display
- > High discrimination capability for adjacent targets
- > Automatic Compensation for mineralized and high natural metal content soil
- > Integrated battery charger
- > Long-Lasting battery life
- > Extremely high level of electrical and mechanical reliability
- > Operation monitored by a microcomputer-controlled autodiagnostic system
- > Completely digital electronics, with in-field program memory upgrade capability
- > Ease of operation with minimum training time required



One Piece Retractable design 





The CEIA CMD is a very high performance, high-sensitivity Compact Metal Detector designed to detect metal and minimum-metal content targets in conductive and non-conductive soils, including laterite and magnetite

### ONE-PIECE FOLDABLE DESIGN

The Metal Detector consists of a search head, a control unit, a telescopic pole and an elbow support jointed together in a one-piece design. The detection head is light and the wiring is designed to be protected from any possible damage.

The one-piece foldable design allows the CEIA CMD Metal Detector to be **operational in a very short time and to be carried easily everywhere.**

The detector is equipped with a **built-in Ni-MH battery charger** which allows the batteries to be recharged [in 3 hours. max] without the need to extract them from the unit.

This also allows full environmental protection of components and maximum operational speed for the user.



### ERGONOMIC OPERATION

Intentionally designed to be used easily and comfortably in every working condition, the CEIA CMD can be set up for operation in less than twenty seconds.

The Metal Detector offers **the best combination of functional and operational characteristics.**

It provides the highest ratio between overall dimensions, detection depth and operational weight.

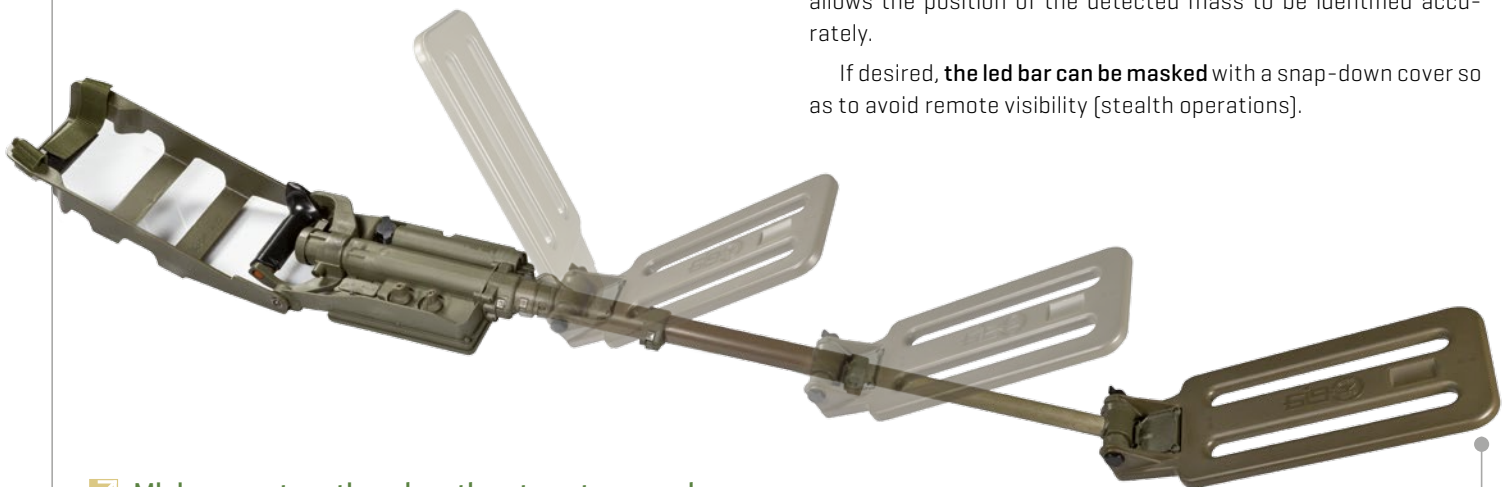
The length of the telescopic pole can be adjusted for **operation in upright, kneeling or prone positions.**

### EXCLUSIVE AUTOMATIC SOIL COMPENSATION SYSTEM

The CEIA CMD **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.

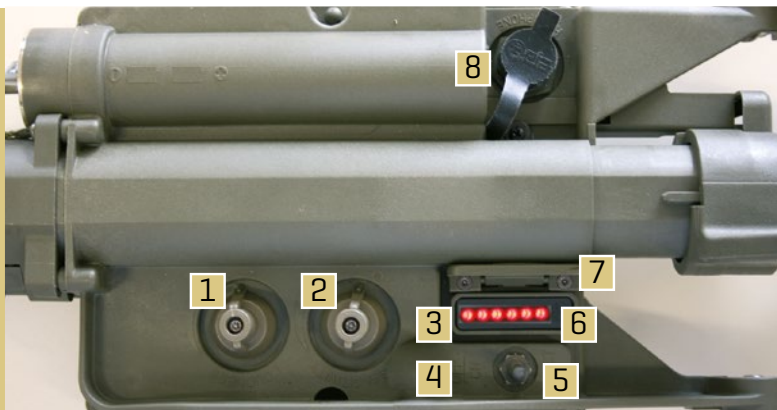
Localization of metal objects is optimized by an **Acoustic Modulation pinpointing system** aided by a Visual LED bar graph, which allows the position of the detected mass to be identified accurately.

If desired, **the led bar can be masked** with a snap-down cover so as to avoid remote visibility [stealth operations].



 **Minimum set-up time: less than twenty seconds**





Technical Training

## MODERN CONTROL UNIT

The watertight control unit and search head withstand the most stringent environmental requirements and Standards.

All controls are within easy reach of the operator:

- 1 Volume adjustment
- 2 Sensitivity adjustment
- 3 Luminous bar indicator of signal intensity
- 4 Built-in speaker
- 5 Main switch and spring actuated reset switch
- 6 Battery charger status indicator
- 7 Snap-down cover to mask the led bar indicator
- 8 Headphone connector - RS-232 interface

## COMPREHENSIVE SUPPORT

Full operational and technical training support:

- In country training and assistance
- Proprietary software tools for remote control and oscilloscope features
- Multilingual telephone and online assistance
- Hardware and software upgrade
- Field Programming Key for in-the-field software upgrade



Operational Training

## 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
- 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



### GSMD-TPS Test Pieces 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.

### GSMD-TK Technical Maintenance Tool Kit

The Maintenance Tool Kit is a complete, self-contained tool kit designed specifically for CEIA CMD 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.



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



## TRANSPORTATION

- 1 Headphone
- 2 Hook/clip for attaching headphone to clothing
- 3 Instruction manuals
- 4 Ni-MH Batteries
- 5 Test sample
- 6 Power supply adapter for the built-in battery charger, with power cords (UL and CEE plug)
- 7 Power Supply Cable for the built-in battery charger fitted with a vehicle cigarette lighter plug



## TECHNICAL DATA

<b>POWER SUPPLY</b>	Types of batteries [2x], ANSI Standard, type C 1.2V Ni-MH rechargeable 1.5V Alkaline [LR14]
<b>BATTERY LIFE</b>	Battery life at 68°F [default search program]: - with Ni-MH [6000 mAh] rechargeable batteries: 8 hours - with alkaline batteries: 6 hours Battery charge indicator
<b>METAL ALARM</b>	Adjustable sensitivity Audible alarm with adjustable volume and visual LED display [maskable with a snap-down infrared cover]
<b>DIMENSIONS</b>	<b>Search head:</b> 13.8" x 5.5" <b>Folded:</b> 15.3" x 6.2" x 3" <b>Fully extended:</b> 50.8" <b>Carry bag:</b> 15.6" x 8" x 4.3"
<b>WEIGHT</b>	<b>Metal Detector</b> without batteries: 4.37 lbs batteries included: 4.6 lbs <b>Carry bag:</b> 1.2 lbs <b>Headphone:</b> 0.37 lbs
<b>ENVIRONMENTAL</b>	<b>Storage temperature:</b> -67°F to 185°F <b>Operational temperature:</b> -51°F to 158°F Meeting and exceeding the relevant Military environmental Standards
<b>LEVEL OF PROTECTION</b>	IP68 [IEC 529] Carry bag in water resistant synthetic canvas
<b>SET-UP TIME</b>	Twenty seconds typical [batteries already in place]
<b>BUILT-IN BATTERY CHARGER POWER SUPPLY</b>	90-260V~ power supply adapter 12/24Vdc power supply cable fitted with a vehicle cigarette lighter plug
<b>OPTIONS</b>	External loudspeaker Rigid transport case