

MULTI-THREAT LOCATOR DS

Dual Sensor Detection

Using our "frequency-agile" ground penetrating radar (GPR) and a breakthrough multi frequency continuous wave metal detector (MF-CWMD), the USA-manufactured Multi-Threat Locator - Dual Sensor (DS) provides high-level target detection and target identification with very low false alarm rates.

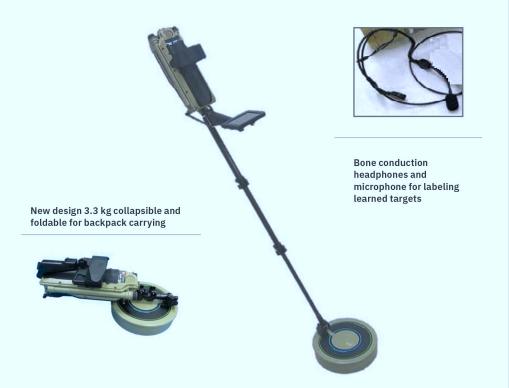
The MF-CWMD includes a unique set of three induction coils creating a central nested cavity that can sense the secondary field (target signal) with a far-reaching dynamic range. Individual detected threat object signatures can be recorded and then used to identify (ID) similar buried threat targets.

Multiple objects can be stored in the system's on-board library and shared with additional MTL-DS detectors.

The GPR is a unique stepped frequency design that measures radar phase data—a capability not available in competing pulsed radar systems.

No surrogate test targets are required to calibrate the GPR, ensuring rapid deployment and safe operating conditions.

Both the GPR and CWMD utilize multiple frequencies to maximize depth detection. The CWMD uses 6–10 frequencies and the GPR up to 140 frequencies for optimum performance. Multiple algorithms are used to provide the improved targets vs. clutter discrimination with a high probability of detection (Pd) and low false alarm rate (FAR) regardless of object depth or orientation. Both metal and non-metal objects can be detected with the MTL-DS.





The MTL-DS provides ground penetrating radar combined with a new multi-frequency continuous wave metal detector to outperform conventional dual sensor and standard mine detectors.

SPECIFICATIONS

CWMD Unique Features

- > In-the-field target learning (mines, UXO, IEDs clutter, etc.)
- > Real-time target identification (ID); insensitive to object depth
- > Targets identified independent of orientation with on-the-fly clutter recognition
- > Typical 6x to 16x better clutter rejection over single frequency systems
- > Accurate "hot" soil rejection
- > Carbon rods, C wire, IED component detection
- > Deeper detection of low conductive targets
- > Operator "vocal" input for target ID library

Stepped-Frequency GPR Capabilities

- > Automatic terrain learning without the need for operator input or calibration aids
- > Accurate shallow and flush surface target detection
- > Superior EMI rejection and "close-in" multiple detector operations

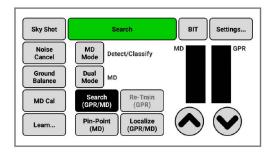
Combined CWMD and GPR Features

- > Scan swath of 15cm GPR / 25cm CWMD, even for deeper targets
- > Frequency-agile to maximize detection and target ID
- > "Localize" mode to integrate signals for optimum discrimination performance
- > Removable Hand Control modules (push button control / LCD display controls)
- > RFI environment compatible

> Total Operating Weight:	3.3+/-0.5 kg	Single operator use
> Operating time using commercial rechargeable batteries:	Indefinite; batteries are hot-swappable	
> MIL STD 810F/G and IP68	-20°C to +55°C operating temp	

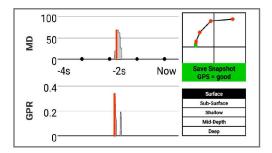
Design Policy

Specifications are provided for reference only and actual equipment may differ slightly from the description given.



TOUCH-SCREEN DISPLAY INTERFACE

Provides initial startup screen (shown above) and multiple additional screens for target or detector details. It is also customizable based on specific operator needs, including LEDs and graphics.



TOUCH-SCREEN DISPLAY INTERFACE

Easier to use, provides more accurate sensors data, real-time I&Q data for visual ID of objects and GPS tagging.

MTL-DS

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Multi-Threat Locator DS

MTL-DS (MD PLUS GPR)

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