

Multi-Threat Locator DS



Dual Sensor Detection

Security & Detection Systems

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

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

L3’s MF-CWMD includes a unique set of three induction coils creating a central nested cavity that can sense the smallest secondary field (target signal) with the largest possible dynamic range. Individual detected threat object signatures can be recorded and then used to ID (identify) similar buried threat targets. Multiple objects can be stored in the system 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 insuring rapid deployment and safe operating conditions.

Both the GPR and CWMD utilize multiple frequencies to maximize depth detection. The CWMD uses up to 12 frequencies and the GPR up to 140 frequencies for optimum performance. Multiple algorithms are used to provide the best targets vs. clutter discrimination with a high probability of detection (Pd) and low false alarm rate (FAR) regardless of object depth or orientation.



Optimized center of gravity design for low operator fatigue and correct sweeping control

Low profile search head

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 rejection.
- 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

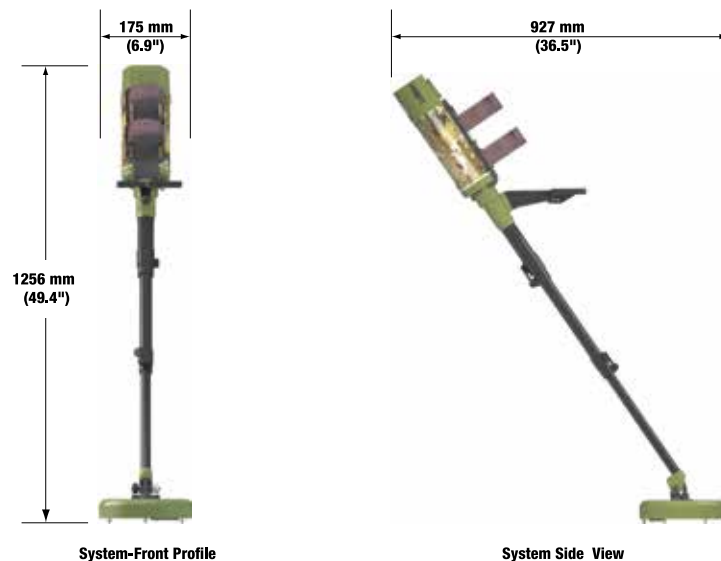
- Automatic terrain learning without the need for operator input or calibration aids.
- Accurate shallow and flush surface target detection.
- Superior EMI rejection and “close-in” multiple detector operation.

Combined CWMD AND GPR Features

- Scan swath of 15cm GPR/25cm CWMD, even for deeper targets.
- Frequency agile to maximize detection and target ID.
- Hover mode to integrate signals for optimum target ID/discrimination performance.
- Removable Hand Control modules (push button control / LCD display control)s.
- RFI environment compatible.
- Total Operating Weight less than 5 Kg.
- Operating time using commercial rechargeable batteries; 8+ hours with standby operating program.
- MIL STD 810F/G

Design Policy

L3 Security & Detection Systems reserves the right to change specifications in the course of continuous improvement. Specifications are provided for reference only and actual equipment may differ slightly from the description given.



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