

MDS-20

Dual Sensor Detector

The MDS-20 integrates advanced metal detection and ground penetrating radar technologies to deliver exceptional detection of low-metal landmines, as well as the most challenging improvised explosive device components, in a compact and lightweight platform.





MDS-20 Capabilities

Full spectrum explosive hazard detection including:

- / Low-conductivity and minimum-metal IED components such as carbon rods, short/thin wires, and command wires
- / Plastic Homemade Explosives (HME) containers
- / Minimum-metal Anti-Tank (AT) and Anti-Personnel (AP) landmines
- / Unexploded Ordnance (UXO)



COMPACT / QUICK TO DEPLOY

MDS-20 Product Features

- **Intuitive User Interface** – Minimizes training time.
- **Continuous Real-Time Detection Display** – Graphical metal detection and ground penetrating radar results with screen pause function to interrogate potential targets.
- **Rapid Start-Up & Setup** – Operational in seconds with default settings.
- **Night Vision Compatible** – Interoperable with night vision goggles.
- **Covert Operation Modes** – Tactical (IR light only) and “No Light, No Sound” settings for stealth missions.
- **Multi-Alert System** – Audio, haptic (vibration), and visual alerts.
- **Flexible Power Options** – Li-ion battery (compatible with PRC-152/148) and optional AA battery pack.
- **Multiple Detection Modes** – Detection, Interrogation, and Pinpointing for enhanced target confirmation.
- **High-Speed Target Location** – Fast and accurate identification of buried threats.
- **All Soils, All Conditions** – Superior metal detection capability in highly mineralized, lateritic, and magnetic soil conditions.



EFFECTIVE

Combining Minelab's patented Simultaneous Multi-Frequency Digital technology and Chelton's Ultra Wide-Band Stepped Frequency Radar to detect all conductive and non-conductive targets of interest in varied soil conditions and operating environments.

RUGGED

Constructed from impact resistant materials and designed to survive in any operating environment (MIL-STD-810H).

SENSOR COMBINATION

Metal Detection and Ground Penetrating Radar sensors able to operate independently or simultaneously, providing selectable visual, haptic (vibration) and audio alerts to the operator.

COMPACT

Extremely compact and lightweight detector to reduce operator fatigue.

EASE OF USE

Comprehensive User Interface designed for intuitive operation and minimising operator training requirements.

SAFE

Inability to accidentally switch off both sensors and all operator alerts — provision of a "heartbeat" during operation — and Built-In-Test equipment to monitor and confirm detector functionality.

MDS-20 SPECIFICATIONS

Collapsed Detector Dimensions	485 × 158 × 195 mm
Extended Detector Dimensions	1567 × 275 × 195 mm
Detector Weight	2.9 kg (6.4 lbs)
Li-ion Battery	6.8 Ah Battery Life: >7 hours
AA Battery Pack	For use with AA alkaline or rechargeable batteries
Detection Alerts	All alerts independently configurable, Audio Speaker, Audio Headphones, MD and GPR target Indicators (with Night Vision Goggles compatibility), Vibration Motor (Haptic feedback) and Colour LCD 3.5" with Night Vision Mode
Waterproof	≤3 meters
Standards	MIL-STD-810H
EMC	MIL-STD-461G
IP Rating	IP68
Operating Temperature	-30°C to +60°C
Storage Temperature	-50°C to +80°C
Metal Detection Sensor	Technology: Simultaneous Multi-Frequency Digital Coil: 269 × 191 mm Mono Transmit, Figure 8 Receive Coil MD Modes: Detection / Interrogation / Pinpointing Calibration: Ground Balance and Noise Cancel
Ground Penetrating Radar	Technology: Ultra-Wide Band (UWB) Stepped Frequency Radar

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A Minelab and Chelton Product

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