



‘Delivering Effective Capability’



SB10MD Improvised Explosive Device Detector

‘designed by Audiotel, made by Tioga’

Lightweight, Ergonomic, Versatile, Unique, Multiple Applications

The SB10MD combines powerful reliable trusted NLJD technology with a sophisticated Metal Detector to offer a unique and rapid search capability simultaneously detecting and alerting the user to the presence of a wide range of electronics including screened devices and IED trigger mechanisms.

Based on proven technology the SB10MD has been designed to be used in a variety of applications where power, reliability and quality are required. Previous devices specifically designed for the Armed Forces, have had their capability rigorously trialled, tested, evaluated and have been employed by various military organisations around the world in multiple theatres since 2001.

The capability has been developed through working closely with a number of organisations including EOD teams and operators. Comprehensive third party involvement has ensured that the detector is rugged, reliable and consistent in all operational scenarios.

Detection Capability

- Hidden electronics either screened or unscreened, passive or active
- All metal types including aluminium foil
- High Metal Content devices (anti-personnel mines)
- High and Low metal content Victim Operated IED Pressure Plates
- Radio remote control devices at significant stand-off distance (mobile phones, radio remote control servos)
- Electronic trigger mechanisms (timing devices, active or inactive electronics)



Features and Benefits

- Simple to use with clear indication, both Audio and Visual
- Low false alarm rates (independent of terrain or substrate)
- High performance detection
- Detects powered and unpowered electronic devices
- Detects radio remote controlled devices at stand off
- Patented detection control algorithm that protects against accidental initiation
- Anti-jamming protection
- Protects against accidental or malicious attempts to counter the capability
- Has a low training burden
- Allows a fast rate of advance
- Lightweight so minimises operator burden and fatigue



Features

- Detects electronic devices when active, dormant or switched off
- Controllable output power to meet a range of target threat
- Fully integrated metal detector
- Easy to use for quick deployment
- Selectable audio and visual warning of threat
- Extendable search head
- Long battery life with optional extra battery
- Output frequency proven to maximize detection of IED threats
- Minimal training burden
- 4 to 20 hour battery life



Technical Specification

	SB02	SB04	SB04MD / SB10MD	SB10
Ideal Use	Suitable for detecting hidden electronic devices in buildings, offices, homes, cars and many other environments	A 4 Watt NLJD suited for buildings and offices as well as more open spaces e.g. corridors and locating electronic devices buried within walls	4 and 10 Watt NLJD with an integrated dedicated Metal Detector. A highly versatile device aimed at specialist search teams	A 10 Watt NLJD A highly versatile device aimed at specialist search teams employed in ground searches
Transmit frequency	865.7MHz, 866.3MHz, 866.9MHz, 867.5MHz	867MMHz to 872MHz	867MMHz to 872MHz	867MMHz to 872MHz
Transmit Channels	4	21	21	21
Transmit Resolution	250 kHz	250 kHz	250 kHz	250 kHz
Transmit Power	2W ERP (+ 33dBm +0dB/-2dB)	4W (36dBm)	4W (36dBm) 10W (40+dBm)	10W (40+dBm)
Modulation	Pulsed	Pulsed	Pulsed	Pulsed
Transmit antenna	Circularly polarised patch, 4dBi	Circularly polarised patch, 4dBi	Circularly polarised patch, 4dBi	Circularly polarised patch, 4dBi
Receiver frequency	1733.2MHz +/- 1.8MHz, 2nd harmonic 2599.8MHz +/- 2.7MHz, 3rd harmonic	1734MHz to 1744MHz, 2nd harmonic 2601MHz to 2616MHz, 3rd harmonic	1734MHz to 1744MHz, 2nd harmonic 2601MHz to 2616MHz, 3rd harmonic	1734MHz to 1744MHz, 2nd harmonic 2601MHz to 2616MHz, 3rd harmonic
Sensitivity	-130dBm (both harmonics)	-130dBm (both harmonics)	-130dBm (both harmonics)	-130dBm (both harmonics)
Receive antennas	Circularly polarised patches, 3dBi	Circularly polarised patches, 3dBi	Circularly polarised patches, 3dBi	Circularly polarised patches, 3dBi
Display	2.4" Colour LCD, bar graphs	2.4" Colour LCD, bar graphs	2.4" Colour LCD, bar graphs	2.4" Colour LCD, bar graphs
Audio	Integral Loudspeaker, Headphone Output.	Integral Loudspeaker, Headphone Output.	Integral Loudspeaker, Headphone Output.	Integral Loudspeaker, Headphone Output.
Battery	Removable Li-Ion battery pack – 4 to 20 hours usage	Removable Li-Ion battery pack – 4 to 20 hours usage	Removable Li-Ion battery pack – 4 to 20 hours usage	Removable Li-Ion battery pack – 4 to 20 hours usage
Operating Temperature	-20°C to +60°C	-20°C to +60°C	-20°C to +60°C	-20°C to +60°C
Metal Detector			10 kHz, CW, induction balance. All metals including aluminium foil	

Warranty

Every SB10 MD comes with a full one year warranty against defective materials and workmanship which can be extended if the unit receives regular maintenance and recalibration.

Training

Hyperion Defence Solutions offers full training in using all of our products as well as complete Counter Improvised Explosive Device training solutions.

Please call for details

For more information or a demonstration please contact us on the following:

Telephone: +971 (0)50 731 2476

Email: info@hyperion-defence.com

Visit: www.hyperion-defence.com



Hyperion Defence Solutions Limited, 71-75 Shelton Street, Covent Garden, London, WC2H 9JQ, United Kingdom

Tel: +971 (0)50 731 2476

Email: info@hyperion-defence.com

www.hyperion-defence.com