

SIBEL Ltd.

MO-2M

PORTABLE EXPLOSIVE DETECTOR

APPLICATIONS

The **MO-2M** is a handheld explosive detector designed for the inspection of hand luggage, luggage and loads transported by all means, letters and parcels, clothes, buildings, offices, public areas, furniture, vehicles, etc.

When fitted with the TVIN (Thermal Vapor Intensifier) accessory, it also operates as explosive particles detector.

Security

OPERATING PRINCIPLE

Non-Linear Dependence of ion Mobility in an electric field (NLDM) - a variant of IMS
No warm-up time
Calibration time : less than 10 seconds
Response time : 2 seconds



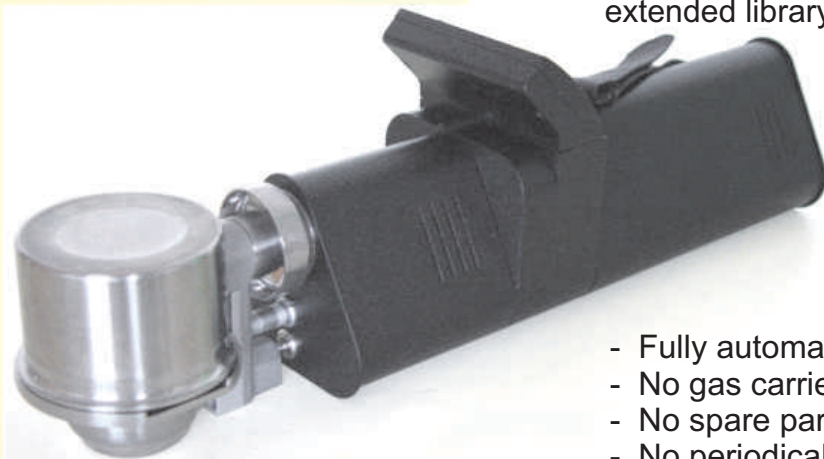
PERFORMANCE

Explosives detected

TNT, NG, PETN, RDX, NIT, AM, HMX, TET, TATP and all others based on them such as C4, Semtex, Dynamite...
ICAO Taggants : EGDN, MNT, DNT
User can add other substances of the same base to the extended library.

Sensitivity

in vapor mode: 10^{-13} g/cm³ for TNT (0.01 ppb)
in particle mode: 50 pg



ADVANTAGES

- Fully automatic real-time light-weight hand-held detector
- No gas carrier required, no filters, no consumables
- No spare parts for 5 years of initial operation
- No periodical maintenance is required
- Continuous detection, ready to operate again after each detection
- After switching on the detector gets ready to operate in less than 10 seconds
- Has two channels: one for the constant calibration of the environmental changes, the other – for analysis of the sample. Constant adjustment of operating conditions in line with the changes in the atmosphere
- User friendly software to display, analyze and record detailed detection data on computer
- No special training required
- Internal battery for easier handling
- Internal memory allowing the storage of up to 5000 ionograms (measurements)
- Embedded Bluetooth for connection to a PC
- Wide color LCD display (49 x 37 mm)

MAIN FEATURES

POWER SUPPLY

Rechargeable Li-Ion 14.4 V battery, or mains (90/240 V - 50/60 Hz)
 Operating time: 4 hours per battery in vapor detection mode
 1.5 hours per battery in particle detection mode

SIZE, WEIGHT

Portable unit dimensions	305 x 86 x 116 mm
Portable unit weight	1.4 kg
Weight of the complete set in its transportation case	7.0 kg
Case dimensions	495 x 355 x 120mm

OPERATING CONDITIONS

Temperature (Vapor detection mode)	+ 10 to + 45°C
Temperature (Particle detection mode, using the TVIN)	- 10 to + 45°C
Storage temperature	- 30 to + 50°C

STANDARD CONFIGURATION

1. One Hand-held unit (MO-2M detector)
2. One AC power adapter (90 - 240V/50 - 60 Hz)
3. Three Li-Ion storage batteries (14.4 V)
4. One Battery charger (90 - 240V/50 - 60 Hz)
5. One TNT vapor generator
6. One Container with 2 TNT reference cartridges
7. One Thermal Vapor Intensifier TVIN
8. Three Sample cards packages (package of 100 pcs.)
9. One Sampling Device
10. Three Sampling traps
11. One Container with front air filter
12. One Collet
13. One Cleaning ramrod
14. One Conical air inlet extender
15. One Interface cable
16. One Key
17. One Software disk "IoScan 2.0"
18. One Bluetooth module for connection with the external computer
19. One Operating manual
20. One Case for transportation and storage



NOTE: The complete set content may vary, depending on options and evolution of the accessories. Manufacturer reserves the right to modify specifications without prior notice.

CONTACT

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