

MO-2M

PORTABLE EXPLOSIVE VAPOR DETECTOR



APPLICATION

The **MO-2M** is a hand held explosive vapor 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, ...

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



OPERATING PRINCIPLE

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

PERFORMANCE

Explosives detected:

TNT, NG, PETN, RDX, TATP and all others based on them such as C4, Semtex, Dynamite...

ICAO Taggants : EGDN, MNT

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

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ADVANTAGES

- Fully automatic real time light weight hand held detector,
- Ready to operate in less than 10 seconds after automatic calibration,
- Constant adjustment of operating conditions in line with the changes in the atmosphere,
- User friendly software to display, analyze and record detailed detection data,
- No gas carrier required , no filters, no consumable,
- No special training required,
- Internal battery for easier handling,
- Internal memory allowing the storage of up to 4000 ionograms (measurements)
- Embedded blue tooth for connection to a PC or PDA,
- Wide color LCD display (38 x 29 mm)

MAIN FEATURES

Size

Portable unit dimensions	305 x 86 x 116mm
Portable unit weight	1.35 kg
Weight of the complete set in its transportation case	7.00 kg
Case dimensions	495 x 355 x 120mm



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 mode
 1 hour per battery in trace detection mode
 The set includes: 3 batteries, 1 battery charger and 1 AC adapter.



Operating conditions

Temperature (Vapor detection mode)	+ 10 to + 60°C
Temperature (Trace detection mode, using the TVIN)	+ 10 to + 60 °C
Storage temperature	- 30 to + 45 °C