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/cm$^3$ 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

<table>
<thead>
<tr>
<th>Portable unit dimensions</th>
<th>305 x 86 x 116mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Portable unit weight</td>
<td>1.35 kg</td>
</tr>
<tr>
<td>Weight of the complete set in its transportation case</td>
<td>7.00 kg</td>
</tr>
<tr>
<td>Case dimensions</td>
<td>495 x 355 x 120mm</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Temperature (Vapor detection mode)</th>
<th>+ 10 to + 60°C</th>
</tr>
</thead>
<tbody>
<tr>
<td>Temperature (Trace detection mode, using the TVIN)</td>
<td>+ 10 to + 60 °C</td>
</tr>
<tr>
<td>Storage temperature</td>
<td>- 30 to + 45 °C</td>
</tr>
</tbody>
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