AEROMARITIME
SECURITY SYSTEMS MIDDLE EAST

MO-2D
PORTABLE EXPLOSIVE TRACES DETECTOR AND DOCUMENT SCANNER

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APPLICATION

The **MO-2D** is a highly sensitive explosive trace detector primarily designed for quickly screening documents such as travel and ID documents. It is also used to detect explosive residues collected from suspicious objects on swipes. The capability to analyze air samples collected on a concentrator makes it one of the most flexible trace detector on the market.

Typical objects inspected are :

- Passports,
- Travel documents,
- ID cards,
- Boarding passes,
- Swipes, air samples…

OPERATING PRINCIPLE

Documents or swipes are introduced in the **MO-2D** where a warm airflow helps releasing vapours from any explosives residues. Vapours are then ionised and separated using the Non Linear Dependence of Ion Mobility (NLDM), also called FAIMS.

PERFORMANCE

Explosives detected: TNT, NG, PETN, RDX, and others with similar physicochemical properties, as well as their by-products and/or mixtures.

Sensitivity (to TNT at 20°C and relative humidity of 50%) : 10^{-13}g/cm^3 (0.01 ppb)
Warm up time : 10 to 15 minutes
Sample heating temperature : 65°C
Response time : 8 to 16 seconds

CONTACT

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ADVANTAGES

- Rapid, compact, fully automatic desktop detector,
- Versatile: check of documents, swipes and air samples,
- Built-in PDA controlled operation,
- High sensitivity,
- **No radioactive source**,
- User friendly software to display, analyze and record detailed detection data,
- Rapid, fully automatic clear-down after detection,
- No cooling time during operation,
- No special training required,
- Easy maintenance,
- Low operating cost (no consumables),
- Powering through car cigarette lighter available (option).

MAIN FEATURES

Detector size:	180 x 200 x 420mm
Weight:	5.5 kg
Weight of the complete set in its transportation case:	9.2 kg
Case dimensions:	220 x 280 x 500mm
Power supply:	AC 100/240 V - 50/60 Hz
Power consumption:	80 VA
Alarm indication:	visual and audio

OPERATING CONDITIONS

Operating temperature:	+ 5 to + 45 °C
Storage temperature:	- 10 to + 50 °C

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