



Description

Handheld Trace Explosive Detector MatriXcope MTC-EX6700XPRO is a portable, high-sensitivity solution designed for rapid detection of trace explosive substances. Its durable ABS polycarbonate housing provides reliable protection while maintaining a professional and ergonomic appearance. The device supports more than 8 hours of continuous operation on a single battery and completes a cold start within 10 seconds.

With a TNT detection limit as low as 0.05 ng, it can identify more than 30 types of explosives. Automatic calibration ensures stable performance, high accuracy, and convenient operation in demanding security environments.

Features

- Fluorescence based
- No radioactive source
- Automatic calibration
- High sensitivity and low false alarm rate
- Quick start and detection speed
- Broad explosive identification
- Convenient operation

General specifications

Technical Specs	
Technology	Amplified Fluorescent Polymer Quenching Sensor
Analysis time	≤5s
Start-up time	≤10s
Sampling method	Particle and Vapor
Detection Sensitivity	Particulate: TNT LOD ≤0.05ng Vapor: 10^{-14} g/cm ³
Operating TEMP	- 20 °C ~ 55 °C
False alarm rate	≤ 1%
Power Consumption	7.5W
Rated voltage	7.4V
Rated Capacity	65.5Wh
Rated Energy	8850mAh
Display Screen	3"TFT Color display Screen
Com Port	USB2.0
Data Storage	≥100000pieces of record
Battery	Two Li-ion Rechargeable Battery
Battery Working Time	Single battery time up to 8 hours
Battery Charging Time	≤ 3.5hours
Alarming method	Visual / Audible / Vibration
Dimensions	300mm × 106mm × 71mm
Weight	≤ 1.05kg including battery
Protection Level	IP53
Substances detected	Military, Commercial, and Homemade Explosives including: TNT, DNT, MNT, Picric Acid, RDX, PETN, TATP, NG, Tetryl, HMX, C4, NA, AN, Black Powder, and others.



Explosive Detector



Explosive Collection Bar

