Pilot M1

Technical Specifications

Type:	Hand held/ Portable
Principal of detection:	FAIMS (Focusing of ions at Atmospheric pressure in a high-field asymmetric waveform Ion Mobility Spectormeter) No Radio-active source & materials. Vapour and Particle Trace detection
Detectable substances:	Capable of detecting most military and commercial explosives The detector is capable to detect traces of explosives based on nitroglycerine (NG), EGDN, trinitrotoluene (tol, trotyl, TNT), PENT (tetranitrapentaerythrit, pentaerythrittetranitrate, Pentrit, PENT), hexogen (RDX), oktogen (HMX), tetryl (Tetril) and nitrocellulose powders, Semtex and other plastic and elastic explosives on the basis of RDX, PENT or their mixture, B-type compositions (ТГ-20, ТГ-40, ТГ-60, ТГ- 80, МС, ТГАФ)*, C-type (C1, C2, C3, C4, ПВВ-4*, ПВВ-5А*, ПВВ-7*, ПВВ-12М*, ЭВВ-11*, ЭВВ-32*, and etc.), H-6, HBX, Minol-2, Amatol (amatol, аммонит № 6-ЖВ*), Primacord, Primasheet, Tetritol, Tritonal, Cordit N, A-IX-1, A-IX-2, A-IX-20, octols*, ocfols* etc.
Sensitivity:	Capable of detecting at least 10-13g/cm3 TNT at +20°C, 80% RH non condensing
Warm Up Time:	No more than 10 seconds
Analysis Time :	No more than 1 second
Indicators:	Audio and LCD on the unit as well as storage of data on an attached Laptop/PC with Pilot M1 Software installed.
Field programmable:	It is field programmable by operator via the four control buttons and the visual LCD provided on the main unit as well as via a software installed on the Laptop / PC
Power Supply:	AC (Via 12V adaptor supplied, charger supply at 100 to 240V, 50/60Hz) DC (using rechargeable Li-Ion Battery supplied rated at 7.2V, 31.7Wh)
Operation Time:	Battery pack usage at not less than 5 Hours while on AC it is capable of 24/7 Use
Operating Conditions:	+5°C to +40°C with RH up to 90% non condensing at +25°C
Storage Conditions:	+5°C to +35°C with RH up to 80% non condensing at +25°C
Extreme Conditions:	-50°C to +50°C with RH up to 98% non condensing at +25°C
Main Unit:	Dimensions 300mm x 180mm x 90mm