



POLIMASTER®
Radiation Detection Technologies



PoliGate™ Mobile

MOBILE DETECTION SYSTEM

PoliGate™ Mobile is a vehicle-based Radiation Portal Monitor (RPM) designed for automatic scanning of fixed or mobile objects to detect illicit trafficking of radioactive substances and materials. Mobile detection system is highly customizable to meet customer needs and in addition to built-in RPMs can be equipped with body-worn and hand-held radiation detection instruments.

PoliGate™ Mobile RPM is equipped with gamma and neutron detectors allowing prompt detection of gamma and neutron radiation in stationary and moving objects, such as vehicles, pedestrians and cargo. Monitors can be installed on one or both sides of a vehicle.

When it comes to securing borders, emergency response and any situation where rapid response is vital, this is a game-changer. Its mobile design allows for quick deployment at strategic locations, enabling efficient screening of vehicles and cargo for potential radioactive threats.

Applications

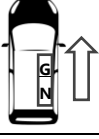


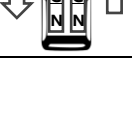
- Customs and border control
- Waste management sites
- Public events security
- Police and security
- Industrial facilities
- Scrap processing

Features

- Control zone up to 3 m × 2.5 m (W×H)
- No vehicle stop is required for measurement
- Wide gamma energy range from 20 keV to 3 MeV
- Remote light and audible alarm annunciators in the van
- Back-up battery providing at least 8 hours of operation
- Variety of add-on equipment: CCTV, traffic lights, barriers



RPM SPECIFICATIONS

Model	Speed, km/h	Control zone W x H, m	Layout of detection units	Minimal detectable amounts of nuclear and radioactive materials*								
				²⁴¹ Am, kBq, (μCi)	¹³⁷ Cs, kBq, (μCi)	⁶⁰ Co, kBq, (μCi)	⁵⁷ Co, kBq, (μCi)	¹³³ Ba, kBq, (μCi)	²³⁸ U, g	²³⁵ U, g	²³⁹ Pu, g	²⁵² Cf, neutron/s
PoliGate™ Mobile G1N1	8	3 × 2.5		2400 (65)	520 (14)	280 (7.6)	600 (16)	320 (8.7)	3250	200	5.8	22000
	8	1.5 × 2.5		900 (24)	200 (5.4)	110 (3.0)	230 (6.2)	130 (3.5)	1250	80	2.3	8500
PoliGate™ Mobile G2N2	8	3 × 2.5		1700 (46)	370 (9.9)	200 (5.4)	430 (12)	230 (6.1)	2300	142	4.1	15000
	8	1.5 × 2.5		650 (18)	150 (4.1)	80 (2.2)	170 (4.6)	90 (2.4)	890	55	1.6	6200

Detectors	Gamma: plastic scintillators (PVT), 11 l Neutron: 10B/ZnS(Ag)
Energy range	20 keV to 3 MeV
False alarm rate	< 1/1000 passages
Communication	Ethernet
Power supply	Vehicle power, portable gasoline generator; 12 V built-in rechargeable battery (> 8 h of operation)
Operating conditions	ambient temperature: -30 °C to 50 °C atmospheric pressure: 88 kPa to 106.7 kPa relative humidity: up to 98 % at 40 °C



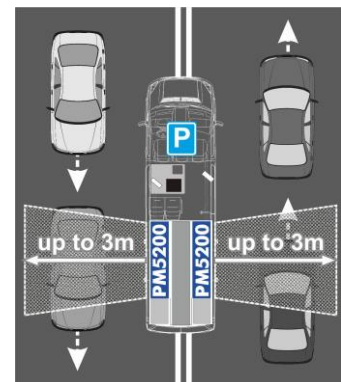
Operators' compartment consisting of MDS control panel, a laptop with RPM software, a wall-mounted alarming module



Various instruments for detection, localization and identification of radioactive materials



Optional video surveillance system for recording the objects that caused the alarm



Up to 3×2.5 m control zone allowing to scan stationary and moving objects at 8 km/h speed

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