



**POLIMASTER**<sup>®</sup>  
Radiation Detection Technologies



**RADIATION  
PORTAL  
MONITOR**

# PoliGate™ Deployable

**PoliGate™ Deployable** Radiation Portal Monitor (RPM) is a highly sensitive deployable radiation monitor designed to detect radioactive and nuclear materials transported through a controlled area. The RPM is designed for fast deployment in emergencies and is suitable for indoor and outdoor use. Fast deployable RPM is designed to provide a high level of mobility and flexibility, allowing to be used in a variety of settings to screen individuals, vehicles, or cargo at the scene of an incident or in temporary screening situations, such as at major public events.

PoliGate™ Deployable is transported and stored in three transport cases, can be quickly assembled without any specialized tools and provides continuous 24-hour personnel-free operation. The constituent parts of the RPM are the Control Block and Detection Blocks with a laptop with the RPM User Software for advanced operation.

## Applications

- Temporary checkpoints for:
  - Public events security
  - Emergency response
  - Customs and border
  - Police and security
- Waste management sites
- Airports and seaports
- Industrial facilities

## Features

- Easy transportation in IP67 cases
- Fast and easy deployment and operation
- Back-up battery providing at least 8 hours of operation
- Ethernet or Wi-Fi communication with the operator PC
- No stop of an object is required for measurement
- Lead shielding for natural background rejection
- Presence detection system (occupancy sensors)
- Control zone up to 3 m × 2 m (W×H)
- Optional video surveillance system



[www.polimaster.com](http://www.polimaster.com)

# PoliGate™ Deployable RADIATION PORTAL MONITOR



## SPECIFICATIONS

### Minimal detectable amounts of nuclear and radioactive materials\*

Model	Speed, km/h	Control zone W x H, m	Minimal detectable amounts of nuclear and radioactive materials*					
			<sup>241</sup> Am, kBq, (μCi)	<sup>137</sup> Cs, kBq, (μCi)	<sup>60</sup> Co, kBq, (μCi)	<sup>238</sup> U, g	<sup>235</sup> U, g	<sup>239</sup> Pu, g
PoliGate™ Deployable	5	1.5 × 2	200 (5.5)	34 (0.9)	18 (0.5)	204	14	0.4
		3 × 2	610 (16.5)	100 (2.7)	55 (1.5)	610	40	1.1

<b>Gamma detectors</b>	Plastic scintillators (PVT) Detector volume is 5.3 l
<b>Energy range</b>	30 keV to 3 MeV
<b>False alarm rate</b>	< 1/1000 passages
<b>Communication</b>	Ethernet, Wi-Fi
<b>Ingress protection</b>	IP65, IP67 in transport cases
<b>Power supply</b>	90-260 V AC / 14V DC adapter; 12 V built-in rechargeable battery (> 8 h of operation)
<b>Operating conditions</b>	ambient temperature: -30 °C to 50 °C atmospheric pressure: 84 kPa to 106.7 kPa relative humidity: up to 100 % at 35 °C
<b>Weight</b>	
Detection Block	< 51 kg
Control Block	< 9 kg
Transport Case No.1	< 16 kg (empty), 74 kg (loaded)
Transport Case No.2	< 17 kg (empty), 72 kg (loaded)
Transport Case No.3	< 17 kg (empty), 72 kg (loaded)
<b>Dimensions</b>	
Detection Block	116×34×16 cm(H×L×W)
Control Block	30×25×25 cm (H×L×W)
Transport Case No.1	80×60×50 cm (L×W×D)
Transport Case No.2	150×50×30 cm (L×W×D)
Transport Case No.3	150×50×30 cm (L×W×D)



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