

# TSA PM704

## Portable Radiation Portal Monitor



Rapidly deployed walk-through personnel  
Monitor for pedestrian inspection applications.

Walk-Through Pedestrian Monitor | Rapid, Temporary Deployment  
Emergency Response | Security Inspection at Events

The Rapiscan PM704 transportable personnel monitor is the solution of choice for temporary radiation inspection applications. It is ideal for inspecting people gathered at events, such as sporting venues, political conferences or government functions. First responders can quickly transport the PM704 to a site and be ready to inspect people for radiation contamination. It also serves as a backup pedestrian monitor when additional inspection capacity is needed.

### Required Detection Performance

The PM704 is a compact and lightweight system that delivers the required radiation detection performance for effective personnel inspection. Large collimated PVT gamma detectors are housed in the vertical pillars. The PM704 meets the requirements of US and international pedestrian inspection standards, as well as the US FEMA standard for radiological emergency response.

### Easy to Store and Deploy

When not in use, the PM704 is safely stored in its protective case, which can easily be moved to wherever an inspection is needed. Once at the site, the unit is quickly assembled and ready to begin inspecting in a few minutes. The PM704 consists of just a few components -two vertical pillars, a horizontal top crossover between the pillars and foot plates for stability – that require no special tools to assemble.

### Attractive Rugged Design

The PM704, which is suitable for indoor or outdoor installations, meets the IP65 environmental requirements. The attractive design is also rugged and able to withstand repeated uses with minimum maintenance.

### FEATURES

Gamma Radiation Detection  
Storage Case

### OPTIONS

Rapiscan RAVEN™ compatible  
Rapiscan RTDC compatible  
Serial port

### APPLICATIONS

Aviation  
Critical Infrastructure  
Customs and Border Control  
Event Security  
Law Enforcement  
Defense

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## SPECIFICATIONS

### Physical

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Operating Configuration	Walk-through pedestrian monitor
Radiation Detectors	Two gamma radiation detectors
Gamma Detector Material	Polyvinyltoluene (PVT) plastic scintillator
Gamma Detector Size	72in H x 3in W x 1.5in D (182cm x 8cm x 4cm)
Gamma Detector Volume	10.6 liters total detector volume
Controller	Integrated in horizontal crossover
Controller Display	4x20 character alphanumeric LCD display
External Dimensions	88in H x 40in W x 14in D (224cm x 102cm x 36cm)
Internal Dimensions	80in Hx32in W (206cmx76cm); ADA compliant
Weight	90 lbs (41kg)

### Performance

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Gamma Radiation Detection	Meets ANSI N42.35 and IEC 62244
Emergency Response	Meets FEMA-REP-21 for radiation detection
False Alarm Rate	Typically less than 1 in 1,000 passages

### Operation

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Inspection Mode	Walk-through
Inspection Speed	3.9ft/s (1.2m/s) nominal
Ready Light	Green ready light signals OK to proceed
Alarms	Flashing lights and audible alarm
Main Power	90-240VAC, 50-60Hz
Backup Power	8 alkaline D cells for 10 hours of operation

### Operating Environment

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Temperature	-20°C to 50°C
Humidity	5 to 95% non-condensing
Environmental Protection	IP65

### Storage

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Storage Configuration	Disassembled in storage case
Storage Case	Hard-sided transport case with wheels

### Options

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Remote Oversight	Rapiscan RAVEN
Remote Access	Serial Port

