NUCARE USA

RAD IQ™ AP100

Advanced Portal Monitoring System

"Spectroscopy in a Portal, Clarity at the Checkpoint."

The RAD IQ™ AP100 brings true nuclide identification to pedestrian and baggage screening, combining the sensitivity of a spectroscopic RIID with the ease, footprint, and flow efficiency of a radiation portal monitor.

USB CCD camera

The RAD IQ™ AP100 is a spectroscopic radiation monitoring portal providing specific radionuclide identification in a convenient and discreet form factor. The unit is suitable for both the detection of Special Nuclear Material (SNM) as well as materials that might be used in Radiological Dispersive Devices ("Dirty Bombs").

The portal is intended for security check points. It is ideal for pedestrian applications and provides an excellent low cost alternative for spectroscopic vehicle check point. The form factor is also suitable for baggage or courier packages on conveyor belt systems. Easy set up and suitability for rapid deployment is well suited to arena events with large numbers of spectators. These same qualities make it suitable for emergency response situations where many people may fear that they have been contaminated when, in fact, only a small number have been.

The system is equipped with collimated 3x3 inch NaI(Tl) detectors, and the necessary electronics. Local alarm enunciation is provided as well as the ability to reproduce alarms at a central command station. Communication is accomplished via Ethernet. The battery support system provides up to 12 hours of operation without line power. The unit is water resistant.

Applications

- Building entrance check point
- Pedestrian radiation security
- Conveyor inspection
- Airport radiation security
- Waste truck radiation monitoring
- Homeland security

Key Features

- Specific Radionuclide Identification
- Weatherproof design - robustness for outdoor applications
- Bluetooth and Ethernet communication for flexibility
- Integrated local alarm enunciation
- Integrated high resolution video camera
- Automatic system calibration and stabilization

❖ Specifications

Detector	NaI(Tl) 3X3 inch or Plastic scintillator (PVT)	Detector Accommodation	up to 6ea, 3x3” NaI or up to ~15ℓ PVT
Energy range	7% ± 1% @ 662keV(Cs-137)	Energy range	20 - 3,000 keV
Network Communication	Bluetooth or Ethernet	MCA channel	up to 12 bit 4096 channel
Dimension	430(W)×200(D)×1600(H) mm	Weight	90kg (198lb)
Video Camera Resolution	USB CCD camera 640×480 pixel	Operating Temperature	-15℃ (5℉) ~ 50℃ (122℉)
Line Power	AC (100 - 240 V)	Optional Battery	> 48 hours

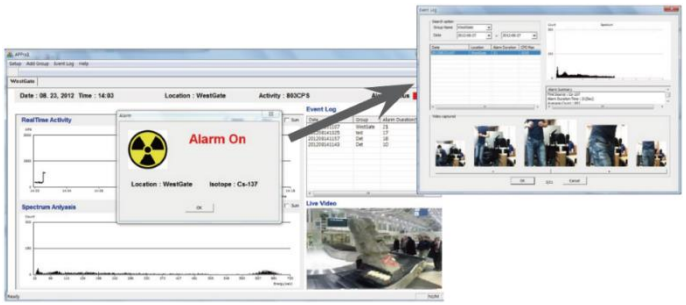
❖ Flexible Deployment

Airport Security Check

Waste truck radiation monitoring

❖ Dual Control, Unified Intelligence

Operate locally via tablet, while all data streams to a central platform for real-time monitoring, event analysis, and secure archiving—seamlessly linking field operations with command oversight.



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