

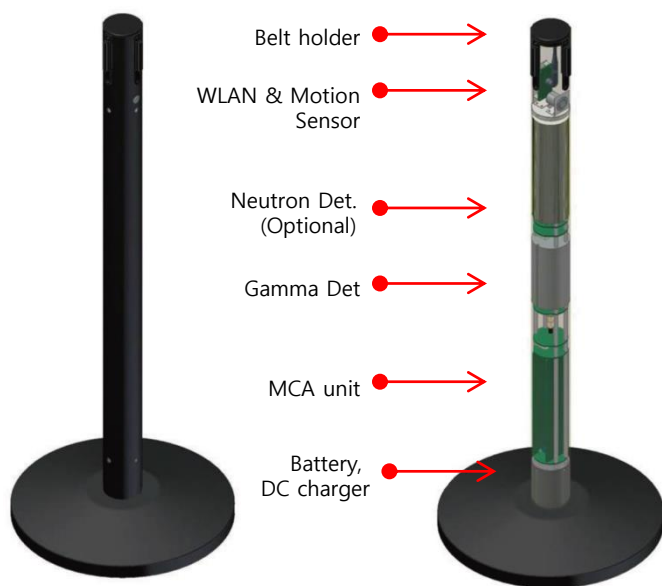
RAD IQ™ RS100

Radiation Monitoring Stanchion



“Covert Design, Clear Detection.”

Disguised as a standard stanchion, the RS100 offers radionuclide-specific detection at pedestrian chokepoints—ideal for airports, transit hubs, and event venues where visible monitoring is not an option.



The RAD IQ™ RS100 is a fully integrated radiation monitoring stanchion designed to detect individuals carrying radioactive materials—without alerting them.

Its slim, discreet profile fits seamlessly into queuing areas, making it ideal for covert security applications in high-traffic environments.

Equipped with radionuclide identification algorithms, the RS100 can differentiate Special Nuclear Materials (SNM) and radiological dispersion threats (RDDs).

All detection, electronics, communication, and power systems are contained within the unit. With built-in wireless connectivity and 24-hour internal battery life, it can be deployed quickly, operated remotely, and repositioned as needed—without cabling or infrastructure.

Key Features

- Two Gamma-ray Detectors (for low and high count rates)
- Specific Radionuclide Identification Algorithm
- Rapid detection of Illicit Radioactive Material
- Networking Capability for Multiple Unit Management from Central Control Station
- Wired and Wireless Ethernet Communication
- Stand Alone Operation for up to 24 Hours (fully charged battery)
- Automatic System Calibration and Stabilization for robust operation
- Alarm Event Logging to the Database

Applications

- Immigration at Ports and Borders
- Infrastructure Protection
- Arena Protection (Special Events)
- Emergency Response (Assess contamination of individuals after an event)

❖ Specifications

Detector	Nal(Tl) (2×2 or 2×3 inch) 0 - 100 uSv/h	Detector (High dose)	GM tube 0.1 - 100 mSv/h
Energy range	20 - 3,000 keV	Resolution	7 % ± 1% @ 662keV (Cs-137)
Dimension	360(Ø) × 70(H) mm (base) 63.5(Ø) × 905(H) mm (tube)	Weight	12.7kg (28lb)
Digital MCA	12 bit, 4096 channels	Operating Temperature	-15°C (5°F) ~ 50°C (122°F)
Network	RJ-45 and WLAN Ethernet	Calibration	Automatic or Manual (Cs-137)
Power	DC and rechargeable battery (up to 24 h)	Optional	Neutron detector, Status LEDs, extendable belt, motion sensor, hard case

❖ Application Examples



Check Point Monitoring at a Special Event



Monitoring at the Airport

❖ 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.

