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VMRDS (Vehicle-Mounted Radiological Detection System)

"Deploy Anywhere, Identify Everything"

From covert mobile missions to wide-area surveillance, the RAD IQ[™] VMRDS delivers RIID-grade spectroscopic identification across any platform—vehicles, vessels, or aircraft —wirelessly controlled from tablet or smartphone.

The RAD IQ[™] VMRDS is a mobile radiation detection solution engineered for deployment on vehicles, aircraft, and marine platforms. Designed with operational agility in mind, it eliminates the limitations of traditional systems through Bluetooth-enabled wireless communication between detector modules and control units, such as rugged tablets or smartphones.

Its modular detector configuration—supporting up to two large 2×4×16" NaI(TI) gamma detectors and optional neutron detectors—can be tailored to mission-specific needs.

Multiple VMRDS units can be synchronized to generate directional data, guiding vehicle operators toward radiation sources with greater speed and accuracy.

Nucare's unmatched integration of hardware, wireless control, and software intelligence makes the VMRDS a powerful, flexible, and future-ready solution for homeland security, border surveillance, first res ponse, and critical infrastructure protection.





Bluetooth communication to a PDA or Tablet PC



- Emergency first responders
- Military marine interceptors
- Radiological Area Mapping
- Geological Radiation Survey
- Safeguard and nuclear security

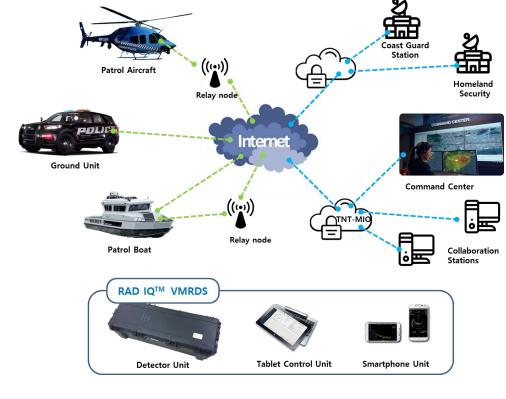
Modular detector configuration Tailored to mission-specific needs

Key Features

- Spectroscopic VMRDS
- Modula detector configuration
- Bluetooth Communication to PAD and/or Tablet PC
- Up to 8 hour operation on a single battery charge
- Automatic System Calibration and Stabilization
- Database protocol for log files and alarm events
- Water and Shock Resistant (IP 67)

RAD IQ[™] VMRDS integrates seamlessly into modern operations with wireless communication, enabling real-time data transfer from patrol vehicles, boats, or UAVs to remote command centers over secure n etworks.

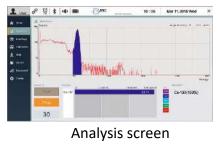
Operators can monitor and control the system using tablet PCs or smartphones, while supervisors acce ss live radiation maps and alerts through centralized platforms—empowering fast, informed decision-m aking in dynamic environments.





Measurement status, visual display, spectrum analysis, background measurement, configuration, and calibration are all controlled by th e Tablet PC and its application software PeakGo.

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Home screen

Map screen

* Specifications

	DETEC	CTORS						
Gamma detector	Nal(TI) : 2x4x16 inch (standard), 4x4x16 inch (optional) up to 2 detectors/unit							
Gamma (High dose)	Gain compensation Geiger-Muller detector							
Neutron detector	He-3, Solidstate (Domino), or CLLBC							
	PERFOR	MANCE						
Energy Range	30 KeV - 3 MeV							
Dose rate range	$<$ 100nSv/h $\sim $ 1mSv/h (Scintillation detector), 1mSv/h \sim 10mSv/h (GM tube)							
Energy resolution	< 8% (Nal)							
Linearity	< 2% (Realtime Linearization by firmware)							
MCA Channel	16bit 1024ch							
Stabilization	Temperature corrected real time stabilization							
	BATT	TERY						
Туре	Lithium Ion	Operation Time	>8 hr.					
	PHYS	SICAL						
Dimensions(WxDxH)	740 mm x 520 mm x 300mm	Weight	20 kg (44 lb)/2G1 model					
	ENVIRON	IMENTAL						
Operating Temp	-20 °C (-4°F) ~ 50 °C (122°F)	Protection Rating	IP67					
Relative Humidity	10 to 80%, non condensing	Testing Condition	EN 61326, MIL-STD-810G 501.5 MIL-STD-810G 514.6					
	ACCESS	SORIES						
Carrying Case	Pelican-type hard case	Charger	USB charger					
Backpack	Backpack or waist backpack	PDA Tablet PC	Samsung Galaxy J5 or equivalen Samsung Tablet or equivalent					
	SOFT	WARF						
Reach-back	ANSI N42.42 or CSV	/ event data via a smart	tphone or a tablet PC					
Application SW	PeakAbout: Android based application SW for a smartphone PeakGo: Windows based application SW for a Tablet PC PeakID: Windows based application SW for a command center							
	DETECTABLE	ISOTOPE LIST						
Norm	K ⁴⁰ , Ra ²²⁶ and daughters, Th ²³² and daughters							
Medical	F ¹⁸ , Cr ⁵¹ , Ga ⁶⁷ , Mo ⁹⁹ , Tc ^{99m} , Pd ¹⁰³ , In ¹¹¹ , I ¹²³ , I ¹²⁵ , I ¹³¹ , Xe ¹³³ , Sm ¹⁵³ , Tl ²⁰¹							
Industrial	Na ²² , Co ⁵⁷ , Co ⁶⁰ , Se ⁷⁵ , Rh ¹⁰⁶ , I ¹³² , I ¹³³ , Ba ¹³³ , Cs ¹³⁴ , Cs ¹³⁷ , Eu ¹⁵² , Ir ¹⁹² , Am ²⁴¹							
SNM	U ²³³ , U ²³⁵ , U ²³⁸ , Pu ²³⁹ , Pu ²⁴¹ , Np ²³⁷							



11900 NE. 1st St., Ste. 300 Rm. 3097 Bellevue. WA. 98005 TEL: 206 366 5244 Email: <u>info@nucareusa.com</u> www. nucareusa.com