

RAD iQ™ HH300

CE FC [6

Hand-Held RIID (Radiological Isotope Identification Device)

"More Than a RIID - It Sees, Tracks, and Adapts"

Now in its third generation - Nucare's most advanced RIID yet!



The RAD IQ™ HH300 represents the third generation of Nucare's hand-held RIID solution, catering to the growing need for portability without compromising on speed or the quality of radionuclide identification.

Weighing in at just 1.3 Kg, this lightweight unit combines cutting-edge technology with user-friendly design.

Driven by Nucare's extensive experience in innovative RIID development, the RAD IQ™ HH300 offers advanced features such as sourceless auto-stabilization and real time reach back capabilities, along with innovative radiation detectors.

The features include a high resolution camera, multi-channel GPS, gyro sensor, and a hot swappable battery pack, all coming together to create a state-of-the-art unit.

These exceptional features ensure that users can rely on outstanding performance that meets and often exceeds the stringent requirements established by Homeland Security in the USA and other regions.

Applications

- Homeland Security
- Emergency Responder
- Safeguard and nuclear security
- Radiological Area Mapping
- Geological Radiation Survey

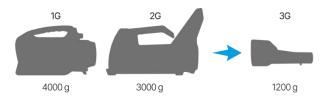
Key Features

- ANSI N42.34 compatible
- Hot-swappable battery pack
- · Built-in camera, GPS, and Gyro sensors
- One-touch reach-back service
- Sourceless auto-stabilization
- Add-on peripheral external device(s)

Key Features

RAD IQ™ HH300 Evolution

The third generation HH300 is the most compact and lightweight RIID product ever developed. Its volume and weight are reduced by one third compared to earlier models, all while incorporating advanced features such as multi-media support.





One-click Reach-back service



The HH300 offers one-click Reach-back solutions for seamless data transfer to command centers.

Users can attach GPS information and site images to the spectroscopic report, assisting analysts in their evaluations.

Additionally, 4G/5G network access is available through an external adapter when WiFi is not an option.

Connect-ability

A key feature of the HH300 is its ability to connect to external devices, including detectors, 4G/5G network adapters, and more through its USB port.



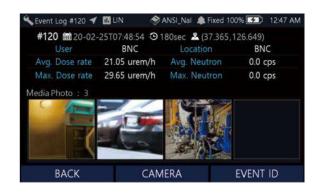
Isotope location finder

The built-in gyro sensor helps the user to locate the source of the radiation.



High resolution camera

The HH300 features a built-in camera that enables effortless image attachments to event reports, significantly boosting its practicality.



Description of Device

The HH300 establishes new standards for compactness, lightness, and ease of use. It comes standard with the assemblies listed below.



1	Gamma detector	2	LCD display	3	Neutron det. (optional)	4	Replaceable battery pack	5	AA battery holder
6	Universal adaptor	7	Belt holster, Hand strip	8	Camera	9	Vehicle Battery charger	0	Bluetooth Earphone

Application software: PeakAbout®

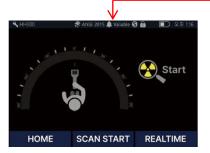
The application software provides enhanced convenience and performance. Its intuitive menu, hierarchical design, and ergonomic keypad ensure easy operation.



Alarm status



PeakAbout provides 4 levels of alarm with intuitive graphical icons. Depend on dose rate and threshold setup, it informs the user 'move forward', 'move back', 'in range' and 'danger' alarm level.



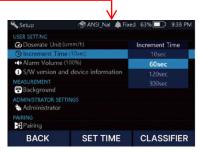
CPS 6.1K Total Count 178.1K Acq.Time 29 / 1200 (sec)

Count Count Count 178.1K Acq.Time 29 / 1200 (sec)

Co-137 100%

5 608 1209 1806 2403 2999 666

BACK SET TIME CLASSIFIER



Finder Manual ID

Configuration

Specifications

		DETE	CTORS						
Gamma			eBr₃ . And PIN detector	<u> </u>					
Neutron		1.5x1.5 or 1.5x2 inch CLYC or CLLBC							
External Prol	Custom size gamma or neutron probe. Pancake (alpha, beta and gamma)								
		PERFOR	RMANCE						
Energy Rang									
	Linearization Real-time linearization by firmware								
Dose rate ran (ID mode)		0 ~ 100 μSv/h							
Dose rate range (Count mode)		0-10 mR/h (NaI), 10 mR/h-10 R/h (PIN)							
Sensitivity		> 1500 cps / μSv/h @Cs-137							
Stabilization		Sourceless automatic real-time stabilization							
Identification		ANSI N42.34 compatible							
MCA channel		16 bit 2048 ch.							
Library catego	ries	SNM, IND, MED, NORM							
Typical resolut	tion	NaI(TI) < 7%, CeBr3	< 5%, LaBr3 < 4%, CLL	BC < 4% @ 662 keV					
		ВАТ	TERY						
Туре		replaceable Li-ion							
Operation time		15x2h in sleep mode, Max run time 8x2h							
Backup batte adapter	ery	4 AA all	kaline batteries (> 2h. k	packup)					
		PHY	SICAL						
Dimension		102 x 243 x 97 (mm)	Weight	1.3 kg					
		ENVIRON	IMENTAL						
Operating Temperatur		-20°C(-4°F)~50°C(122°F)	Protection Rating	IP65					
Relative Humi	dity	10 to 80%, non condensing	Testing Condition	IEC 62706, EN 61326					
		DISPLAY		INPUT/OUTPUT					
Туре		LCD	USB	micro USB 3.0					
Size		3.5inch	Bluetooth	Class 4.0					
Resolution 480 x		320, configurable up to 1920x1080	WLAN	802.11n Wireless LAN					
MISCELLANEOUS			SOFTWARE						
GPS	22tracking, 66channels, 1-10Hz		Reach-back	ANSI N42.42 or CSV event data					
CD Camera		CMOS 8MP	Application	PeakAbout (application SW)					
YRO sensor		Linearity 0.1 ±% FS	SW	PeakID (PC version SW)					
		ACCES	SORIES						
Case		Pelican style carrying case	Charger	USB charger / Vehicle Battery charger					



Belt holster

Holster

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

mini USB cable

Connection cable