



Fast and reliable radiation  
detection and identification

Thermo Scientific RadHalo RDP and FM  
spectroscopic area monitors

# Thermo Scientific RadHalo spectroscopic area monitors

With multiple configurations available, Thermo Scientific™ RadHalo™ Spectroscopic Area Monitors can adapt to any situation from special event monitoring to rapid response for a nuclear power accident. With rapid isotope detection and identification, the RadHalo is ideal for eliminating lengthy sampling times required to assess radiological events.



- Monitor, prevent and mitigate exposure to dangerous radiation events
- Fast, accurate dose rates from background to 10 Sv/h (1000Rem/h)
- Rapid deployable probe (RDP) provides re-locatable monitors for quick deployment and monitoring
- Fixed monitor (FM) designed for permanent and constant air monitoring
- Versatile communication pathways - 2.4 GHz radio, LAN, WiFi, GSM and SAT with failover
- Monitor and manage with your mobile device or flexible monitoring software
- Engineered for operation in the harshest environments
  - 60 hour battery life
  - Withstands drops and tips
  - Water resistant

## Thermo Scientific RadHalo RDP

Area monitor featuring portability, rapid deployment, and autonomous operation



Monitor your radiation detection products from anywhere with our mobile app.







## Safety and Security Applications

- Flexibility to monitor and rapidly deploy units to optimize environmental and emergency planning situations.
- Reduce radiological screening wait-times and need for awkward conversations about individuals recent medical history
- Replace labor-intensive screening instruments with automated network

## Environmental Applications

- Reduce costs while receiving timely and detailed radionuclide information
- Replace labor-intensive environmental instruments with an automated system
- Early warning system through continual dose rate monitoring

**Thermo Scientific RadHalo FM**  
Designed for permanent and constant area monitoring



Low and High Tripod mounts for RDP



## Available accessories

- Solar panel kit
- Base radio to receive transmissions
- Radio repeater for increased transmission distance
- Low and high tripod mounts for RDP
- FM pole/fence/wall mount kit
- FM antenna extension kit

## Thermo Scientific RadHalo Specifications

Feature	Thermo Scientific RadHalo RDP	Thermo Scientific RadHalo FM
Spectroscopic Detector 3x3" NaI	0.05µSv/hr to 0.1mSv/hr (5µRem/hr – 10mRem/hr)	
Dual Range GM Tube	0.05mSv to 10Sv/hr (5mRem/hr to 1000Rem/hr)	
Gamma Detection Sensitivity	Identifies Co57 @ 6.6nSv/h moving at 30.5cm/s (1 ft/s) from 100cm (3.3ft) away	
Dose Rate Accuracy	+/- 20% at 661keV (Cs137)	
Neutron Detector (Optional)	CLYC	
Neutron Detection Sensitivity	Detects 1.3 neutrons/s*cm² moving at 30.5cm/s (1 ft/s) from 100cm (3.3ft) away	
Environmental Resistance	IP66	IP66
Library	49 radioisotopes including all in ANSI N42.34-2006 standard, with version 1.0.0	
Data	Ability to store > 10000 ANSI N42.42 (2012) compliant spectra. Data transmissions 1024 bit encryption	
Rugged Resistance	1m drop onto concrete	Not rated for drops – mounts rated for high wind loads
Temperature Range	-30C to 55C	
Control and Reachback Communications	WiFi, 2.4GHz, optional Cellular, optional Satellite	WiFi, LAN, optional 2.4GHz, optional Cellular, optional Satellite
Antenna Options	Mounted short range stubbies	Optional 10km directional Yagi or omni-directional
Battery	Lithium Titanate 60 hrs with 3 hr recharge	
Size (fully featured system)	37 lbs (14" DIA base x 30.5" tall)	50 lbs (24 x 24 x 8")
Control of Peripheral Equipment	None	GPIO, USB
Mounting Options	Freestanding or with tripod	Pole or fence mount
Security	Tamper and tip sensors	Tamper sensors
Transportation	Handle, removable shoulder strap	None

**Four Options Available**

**Twelve Options Available**



### Definitive answers through pin-point accuracy

The Thermo Scientific™ RadEye™ SPRD Spectroscopic Personal Radiation Detector helps you locate and identify radioactive nuclides including nuclear weapons, dirty bombs, orphaned or purposely-masked sources.

Learn more at [www.thermofisher.com/sprd](http://www.thermofisher.com/sprd)

Find out more at [www.thermofisher.com/radhalo](http://www.thermofisher.com/radhalo)

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