Product Datasheet

identiFINDER R200

4.5

µrem/h

identiFINDER R200

Spectroscopic Personal Radiation Detector

The FLIR identiFINDER R200 is a rugged, pager-sized Spectroscopic Personal Radiation Detector (SPRD). It provides full ANSI N42.32 Personal Radiation Detector (PRD) compliance and features nextgeneration solid state detector read-out technology that delivers ANSI N42.48 SPRD compliance with nuclide identification.

Law enforcement agencies and first responders use the R200 during routine traffic stops or high visibility events and in mass transit or critical infrastructure entry control points. The OneTouch Reachback[®] feature uses the latest advancements in Bluetooth[®] and web server technologies to provide large-scale situational awareness by alerting others before arriving on-scene. The clear user interface and simple data presentation common to all identiFINDER products allow the R200 to quickly integrate with existing operational protocols and reduce the training burden.



- Radioistope identification enables immediate front-line detection and response during a radiological event.
 - ANSI N42.32 PRD compliant.
 - ANSI N42.48 SPRD compliant, with nuclide identification.
 - SiPM technology with CsI detectors provide <7.5% resolution.
 - Field-proven template matching algorithms.
- Pager-sized and rugged belt-wearable for daily passive radiation monitoring.
 - 1.5 metre frop tested, IP67-rated.
 - No user maintenance.
 - Automatically calibrated and stabilised.
- Shared common user interface familiar interface aligns with typical operating procedures.
 - Simple three-button interface.
 - Clear, easy-to-read results.
 - Web-based software for easy data retrieval.



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Specifications

General	
Technology	Spectroscopic personal radiation detector (SPRD).
Gamma (Csl)	(18 mm)/\3 Cesium Iodide (Csl) with Silicon Photomultiplier (SiPM).
Energy Range (Gamma)	25 keV - 3 MeV.
Gamma Spectrum	1024 channels; 3 MeV.
Dose Rate / Accuracy (Cs-137)	≤100 nSv/h - 250 μSv/h (≤10 μRem/h - 25 mRem/h); ±20%.
Typical Resolution	Q.5 % FWHM at 662 keV.
Service Interval	Recommended five year factory maintenance interval; annual dose rate collbration interval

Power	
Input Voltage	100-240 VAC (wall adapter supplied).
Battery Specifications	Up to 16-hour mission time; two rechargeable and hot-swappable Li-ion batteries, each lasting up to 8 hours.
Startup Time	3 minutes from cold; <10 seconds from sleep.

Environmental	
Operating Temperature	-20 to 50 °C (32 to 104 °F)
Operating Humidity	5 to 95% condensing.
Storage Temperature	-10 to 50 °C (14 to 122 °F)

1.5 kg

corrosive coating.

37 x 11.5 x 7 cm – with battery.

IP54-rated, moulded magnesium and polymer composite casing with anti-

Sampling and Analysis			Physical Features
Sample Introduction	Absorption of EM gamma emissions.		Dimensions (L x W x H)
Threats	Detects gamma radiation emitted from natural occurrences in the environment, special nuclear material, industrial, or medical material.		Weight
			Enclosure and Protection
Standards Compliance	ANSI N42.32 PRD standard fully compliant ANSI N42.48 SPRD standard fully compliant, including nuclide identification.		Specifications are subject to char For the most up-to-date specifica
Sampling and Analysis	From a few seconds to minutes.		

Samp

System Interface	
Display and Alerts	Memory LCD black and white display.
Communication	USB 2.0; mini-B socket; Bluetooth®, ≤10m range (removable).
Data Storage	USB-C (Drive and Link modes), toggleable Wi-Fi, and Bluetooth.
Data Storage	30 MB internal memory; up to 5000 spectra.
Training Requirements	<10 mins for operator; 1 day for advanced user.
Software	On-board webserver software.

ations are subject to change without notice. nost up-to-date specifications, please visit www.flir.com

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