



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 next-generation 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.

RADIOISOTOPE 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 & RUGGED

Belt-wearable for daily passive radiation monitoring

- 1.5 meter drop tested, IP67-rated
- No user maintenance
- Automatically calibrated and stabilized

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



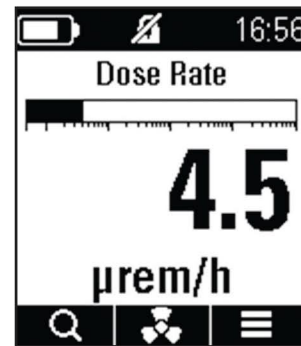
Belt-wearable for easy access



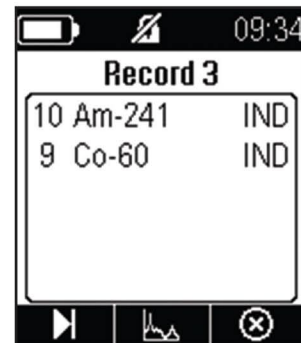
Easy-to-read interface for quick threat detection

Specifications

identiFINDER R200	
Technology	Spectroscopic personal radiation detector (SPRD)
Gamma (Cs) ¹	(18mm) ³ Cesium Iodide (CsI) 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 (≤10μRem/h – 25 mRem/h); ±20%
Typical Resolution	≤7.5 % FWHM at 662 keV
Service Interval	Recommended five year factory maintenance interval; annual dose rate calibration interval
SAMPLING & ANALYSIS	
Sample Introduction	Absorption of EM gamma emissions
Threats	Detects gamma radiation emitted from natural occurrences in the environment, special nuclear material, industrial, or medical material
Standards Compliance	ANSI N42.32 PRD standard fully compliant ANSI N42.48 SPRD standard fully compliant, including nuclide identification
Sampling & Analysis	From a few seconds to minutes
SYSTEM INTERFACE	
Display & Alerts	Memory LCD black and white display
Communication	USB 2.0; mini-B socket; Bluetooth® ≤10m range (removable)
Data Storage	30MB internal memory; up to 5000 spectra
Training Requirements	<10 mins for operator; 1 day for advanced user
Software	On-board webserver software
POWER	
Input Voltage	100-240 VAC (wall and car adapters and USB cable supplied)
Battery Specs	Internal single cell Li-ion: operational battery life ≥36h; replaceable back-up CR-123A: operational battery life ≥18h; Recharge time ≤6h when using AC or USB power source
Cold Start Time	<2 mins from cold start
ENVIRONMENTAL	
Operating Temp	-4 to 122 °F (-20 to 50 °C)
Operating Humidity	93% RH @ 35 °C non-condensing
Storage Temp	14 to 95 °F (-10 to 35 °C)
Enclosure & Protection	Plastic injection with rubber overmold; protection rating IP67 according to IEC 60529
PHYSICAL FEATURES	
Dimensions (L x W x H)	5.7 x 2.2 x 1.9 in (14.5 x 5.6 x 4.8 cm)
Weight	≤0.88 lb (0.4 kg)



Dose Rate Mode



Radioisotope Identification



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