

# identiFINDER R100

## Personal Radiation Detector



The FLIR **identiFINDER R100** is a personal radiation detector (PRD) in a belt-worn, rugged form factor. It delivers immediate threat alarms to frontline responders and automatically generates a dose-rate report providing continuous, situational awareness to central command. Every R100 features integrated Bluetooth® Smart technology that connects directly to a smart device, enabling networking. The R100 is IP67 certified to protect against dust and water immersion up to 1m. It meets the 1.5m-drop criteria required by ANSI N42.32, a key performance standard for alarming PRDs deployed in harsh responder environments. The R100 joins the industry-leading identiFINDER product family, offering a complete range of first responder radiation security solutions, from threat detection to threat identification.

### BELT-WORN PRD WITH INTEGRATED BLUETOOTH

*Continuous Front-Line Situational Awareness*

- Features integrated Bluetooth Smart technology
- Mobile apps display real-time output and record and send dose rate and geotag
- Eliminates information blind spots and increases operator safety

### DUNKABLE AND DEPENDABLE

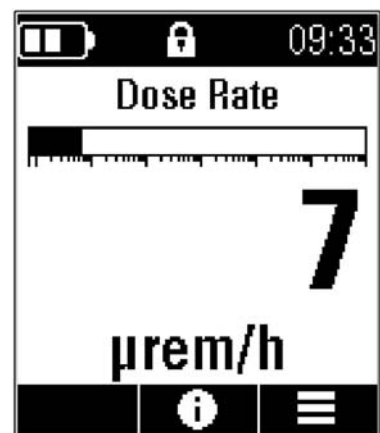
*Supports everyday use in challenging, harsh environments*

- IP67-rated to protect against dust and immersion in water up to 1m
- Meets the 1.5m-drop criteria required by the ANSI N42.32 PRD standard
- Clear, backlit memory display outperforms the competition in every lighting condition

### SOLUTIONS FROM THREAT DETECTION TO IDENTIFICATION

*Fully integrated product family, from PRD to premium-class RIID (radio-isotope identification device)*

- Shared automated report format across all identiFINDER models
- Intuitive user interface shared across all identiFINDER models
- Common training across all identiFINDER models minimizes total cost of ownership



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## SPECIFICATIONS

### IdentiFINDER R100

Technology	Personal Radiation Detector (PRD)
Gamma (G-M)	Energy Compensated Geiger-Muller Tube
Energy Range (Gamma)	25keV - 3MeV; energy compensated dose rate 60keV - 1.5MeV
Gamma Sensitivity	17cps / mR/h
Dose Rate Range (Cs-137)	5 $\mu$ rem/h (0.05 $\mu$ Sv/h) to 1 rem/h (10mSv/h)
Dose Rate / Accuracy (Cs-137)	$\pm$ 20%
Dose Rate Units	rem/h or Sv/h; user adjustable
Service Interval	Recommended five (5) 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
Compliance	Meets the 1.5m drop criteria required by ANSI N42.32, fully compliant with ANSI N42.33
Sampling & Analysis	Continuous

### SYSTEMS INTERFACE

Display	Transflective Monochrome LCD
Alerts	Visible (front and top LEDs), audible, and haptic (vibration)
Localization	Language translation available worldwide
Communication	USB 2.0; micro-AB socket; integrated Bluetooth up to 10m range
Software	On-board webserver software

### POWER

Input Voltage	4.5V to 5.5V USB micro-AB socket
Battery Specs	Two replaceable 1.5V AA Alkaline batteries; operational life >125h
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)

### PHYSICAL FEATURES

Dimensions (L x W x H)	5.3 x 2.2 x 1.5 in. (13.5 x 5.5 x 3.7 cm)
Weight	0.55 lb (0.25 kg)
Enclosure & Protection	Plastic with rubber overmold; protection rating IP67 according to IEC 60529

