



## PERSONAL SURVEY METER

# FLIR identiFINDER® R100

The FLIR identiFINDER® R100 is a personal survey meter (PSM) in a belt-worn, rugged form factor. It delivers immediate threat alarms to front-line 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 1 m. It meets the 1.5 m-drop criteria required by ANSI N42.32, a key performance standard for alarming PSMs 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.

[www.flir.com/r100](http://www.flir.com/r100)



### BELT-WORN PSM 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 1 m
- Meets the 1.5 m-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

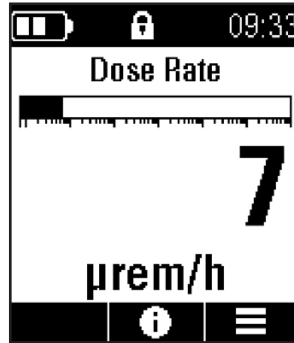
Fully integrated product family, from PSM to premium-class radionuclide identification device (RID)

- 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

## SPECIFICATIONS

General	
Technology	Personal Survey Meter (PSM)
Gamma (G-M)	Energy Compensated Geiger-Müller Tube
Energy Range (Gamma)	25 keV - 3 MeV; energy compensated dose rate 60 keV - 1.5 MeV
Gamma Sensitivity	17 cps / mR/h
Dose Rate Range	5.0 $\mu$ rem/h (0.05 $\mu$ Sv/h) to 1 rem/h (10 mSv/h)
Dose Rate / Accuracy (Cs-137)	$\pm$ 20%; 50 $\mu$ rem/h to 1 rem/h
Dose Rate Units	rem/h or Sv/h; user adjustable
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
Compliance	Meets the 1.5 m drop criteria required by ANSI N42.32, fully compliant with ANSI N42.33
Sampling & Analysis	Continuous
System 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 10 m range
Software	On-board webserver software
Power	
Input Voltage	4.5 V to 5.5 V USB micro-AB socket
Battery Specs	Two replaceable 1.5 V AA Alkaline batteries; operational life >125 h
Cold Start Time	<2 mins from cold start

Environmental	
Operating Temp (ambient)	-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



Common user interface with clear results

Specifications are subject to change without notice. For the most up-to-date specs, go to [www.flir.com](http://www.flir.com)

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