

## FLIR identiFINDER R425

### Next Generation Radionuclide Identification Device



**detection  
monitoring  
identification**

**radiation**

The **FLIR identiFINDER R425** is the next generation of the most deployed radionuclide identification device (RID), offering 360-degree coverage so you can locate and measure radioactive sources with confidence. It builds on FLIR's trusted algorithms with advanced heuristics and hybrid identification techniques.

The newest and latest updates to the R425 feature a new glass screen cover to boost its ruggedness, an increase of the GM tube to 1000 R/h adding a higher dose capability, and an LaBr detector offering higher resolution option providing a better energy resolution capability.

Operate the R425 quickly with the familiar identiFINDER user interface and 3-button control. When other systems fail in extremely high gamma fields, the identiFINDER R425 provides pinpoint accuracy and remains fully operational. The R425 provides an ideal balance of size, weight, and performance.



#### BETTER DETECTION IN ALL DIRECTIONS

With over 25,000 deployed RIDs, the R425 builds on a solid legacy of performance in every way

- Threats come from every direction. The cubic detector design allows for high performance in all directions.
- Greater sensitivity with 75% larger detector, and 2X Neutron sensitivity.
- 15% lighter weight than the previous generation.
- The LaBr detector option will provide  $\leq 4.5\%$  resolution.



#### POWER THROUGH YOUR MISSION

Unparalleled ruggedness, power flexibility, and usability means the R425 will go the distance and complete the mission with you.

- Drop on the ground, submerge it in water. It will survive. Fully enclosed solid-state detector. Ergonomic design and rubberized grip.
- Sunlight readable screen, even with polarized glasses. Internal battery lasts up to 12 hours. Need more? Hot swappable batteries (rechargeable AND disposables) add 2 hours of use. Ready in 15 seconds or less from a cold start.
- Same tried and trusted interface as the R400. Pick it up and go.



#### SITUATIONAL AWARENESS WHEN YOU NEED IT

When threat detection occurs, getting results communicated as quickly as possible is critical. R425 makes it easier than ever before, no matter the method.

- Remote viewing, operation, and reachback over Bluetooth via available app (iOS/Android) or over USB-C via FLIR's intuitive Web Interface.
- Universal API to enable integration with user deployed networks such as Mobile Field Kit, ATAC, Sigma Edge, Safe Environment Gateway, and others.
- Wi-Fi and Cellular connectivity via optional adapter

# identiFINDER R425

## SPECIFICATIONS

### IdentiFINDER R425

Technology	Radionuclide identification device (RID); Gamma and Gamma/Neutron Models
Gamma Detector - NaI (TI)	1.77 x 1.77 x 1.77 in (45 x 45 x 45 mm) cubic detector with silicon photomultiplier (SiPM)
Gamma Detector - LaBr3(Ce) (LG & LNG Models)	1.4 x 1.4 x 1.4 in (35 x 35 x 35 mm) cubic detector with silicon photomultiplier (SiPM)
High Dose Rate Gamma Detector	Energy Compensated Geiger Müller (GM) Tube
Neutron Detector - ZnS (GN model only)	27 x 58 x 5 mm moderated panels (2 each)
Energy Range (Gamma)	20 keV - 3 MeV
Gamma Sensitivity (Cs-137)	1610 cps/uSv/h (G & GN models) 1000 cps/uSv/h (LG & LGN models)
Neutron Sensitivity	> ≥ 15 cps/nv (GN & LGN models only)
Gamma Spectrum Length	1024 channels
Dose Rate Range (Cs-137)	10 µrem/h – 1 rem/h ± 10%, 100 nSv/h – 10 mSv/h ± 10%
Dose Rate Range ID Mode (Cs-137)	0.1 µrem/h – 5 mrem/h, 1 nSv/h – 50 µSv/h
High Dose Rate Range	1 - 100 rem/h ± 30%, 10 mSv/h - 1 Sv/h ± 30%
Stabilization	Sourceless gain stabilization
Linearization	Real time linearization of gamma energy
Typical Resolution	≤ 7% FWHM at 662 keV (20°C) (G&GN models), ≤ 3.5% FWHM at 662 keV (20°C) (L&LN models)
Service Interval	5-year factory maintenance

### Sampling & Analysis

Sample Introduction	Absorption of EM gamma (NaI) or gamma and neutron emissions)
Threats	Detects neutron or gamma radiation emitted from natural occurrences in the environment, special nuclear material, industrial, or medical material
Nuclide Identification	According to ANSI N42.34
Library Categories	SNM, IND, MED, NORM
Time to Identification	From a few seconds to a few minutes

### System Interface

Display & Alerts	2.7" diagonal (400x240 pixels) screen; sunlight readable; visible through polarized glasses
Communication	USB-C (2x), Bluetooth (BLE 5.0)
Data Storage	8 GB internal memory
Training Requirements	<10 mins for operator; 1 hour for advanced user
Software	On-board webserver software
Data File Format	According to ANSI N42.42

### Power

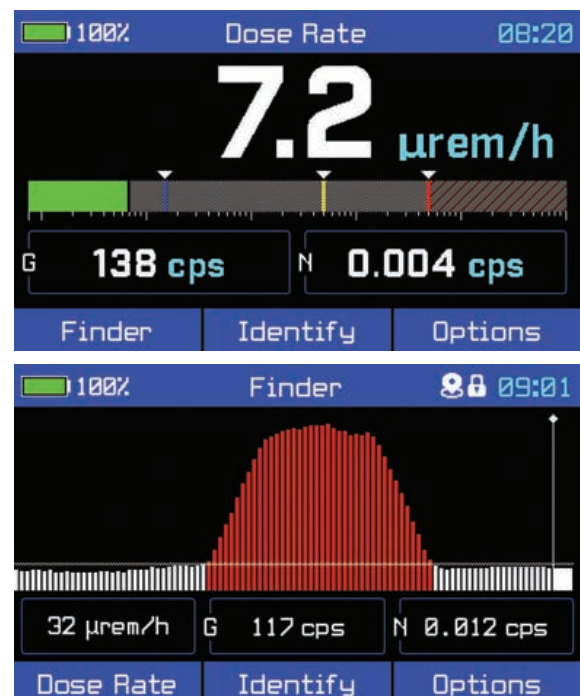
Input Voltage	100-240V AC (wall adapter and USB C cable supplied)
Battery Specifications	Internal Li-ion cells; additional user-selectable external battery (1 each 16650 Li-ion or 2 each CR123) ; hot-swappable
Cold Start Time	≤ 20 seconds from cold start

### Environmental

Operating Temp (ambient)	-22 to 140°F (-30 to 60°C)
Operating Humidity	0 to 100%
Storage Temp	0 to 140 °F (0 to 60°C)

### Physical Features

Dimensions (L x W x H)	9.3 x 3.9 x 3.7 in (235 x 100 x 95 mm)
Weight	≤2.6 lbs (≤1.2 kg)
Enclosure & Protection	Injection molded housing with overmold; rating IP67 according to IEC 60529; MIL-STD 810g Salt / Fog compliant



Specifications are subject to change without notice.

