



SPECTROSCOPIC PAGER FOR RADIATION DETECTION & IDENTIFICATION FLIR identiFINDER[®] R300

The FLIR identiFINDER R300 is the world's highest performing, pager-sized Spectroscopic Personal Radiation Detector (SPRD). It provides continuous detection capability and full threat identification. The R300 can be deployed in place of existing Personal Radiation Detectors, or utilized as a confirmatory tool with the added capability of identifying the radioisotope present. The simple two-button user interface facilitates expedited threat response. Visible, audible, and tactile alarms rapidly alert the operator via the easy-to-read color display. On-board Bluetooth[®], web server, and GPS technologies make interagency communication easier than ever. From One Touch Reachback[™] to reliable radioisotope identification, the R300 is the most advanced SPRD available. With enough detector resolution to resolve complex spectra and enough stopping power to identify the full ANSI N42.48 library, the identiFINDER R300 is the ideal solution for belt-worn passive scanning, security checkpoints, border patrol, and first response.

www.flir.com/R300



CONFIDENT, BELT-WORN PASSIVE RADIOLOGICAL SCANNING

Compact but powerful with rapid visibility to threats

- CZT detector provides unmatched $\leq 3.5\%$ resolution in an SPRD
- Available in gamma only or gamma and neutron models
- Field-proven and trusted template matching algorithms shared with the rest of the identiFINDER line
- Excellent response time and low false alarms



RUGGED, IP67-RATED ENCLOSURE

Tough and mission-ready for fast front-line detection and response

- Weighs less than 1 lbs. for ease of use and portability
- Harsh environments and/or temporary submersion up to one meter during decontamination
- Drop-tested up to 1.5m



SIMPLE TWO-BUTTON INTERFACE WITH ONE TOUCH REACHBACK[™]

Built for on-the-go applications with fast, two-minute start up

- Immediately send full spectroscopic data and critical information with single push of a button
- Fully ANSI n42.42 and ANSI n42.48 compliant for identification performance
- No user maintenance required with automatic calibration and stabilization

SPECIFICATIONS

identiFINDER R300

| | |
|-------------------------------|---|
| Technology | Spectroscopic personal radiation detector (SPRD) |
| Product Variants | Z (gamma only) and ZH (gamma/neutron) |
| Gamma (CdZnTe) | Three crystals 0.6 x 0.5 x 0.2 in (15 x 13 x 5 mm) |
| Neutrons (He-3) | 0.6 x 2.1 in (15 x 54 mm) |
| Energy Range (Gamma) | Identification channel 30 keV - 3 MeV |
| Gamma Spectrum | 1024 channels; 3 MeV |
| Dose Rate / Accuracy (Cs-137) | ≤100 nSv/h – 10 mSv/h (≤10 µrem/h – 1.0 rem/h); ±30 % |
| Overload Threshold | 5 mSv/h |
| Neutron Sensitivity | 2.6 cps/nv; ±20 % |
| Typical Resolution | ≤3.5 % FWHM at 662 keV |
| Service Interval | 5-year factory maintenance |

Sampling & Analysis

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|------------------------|---|
| Sample Introduction | Absorption of EM gamma or 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 N42.48 |
| Sampling & Analysis | From a few seconds to minutes |

System Interface

| | |
|-----------------------|---|
| Display & Alerts | Transflective color LCD |
| Communication | USB 2.0; mini-B socket; Bluetooth® ≤50m range (removable) |
| Data Storage | 2GB internal memory; up to 600,000 spectra |
| Training Requirements | <10 mins for operator; 1 day for advanced user |
| Software | On-board webserver software |

Power

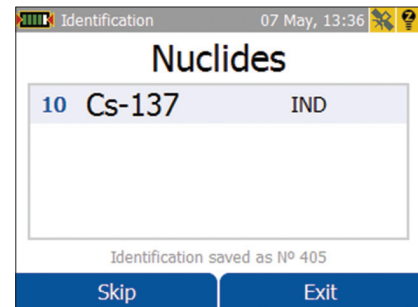
| | |
|---------------|---|
| Input Voltage | 100-240 VAC (wall and car adapters and USB cable supplied) |
| Battery Specs | Internal single cell Li-ion; ≥24h operational battery life; recharge ≤3h when using AC; recharge >5.5h when using USB |
| Startup Time | <2 mins from cold start |

Environmental

| | |
|-----------------------|-----------------------------|
| Operating Temperature | -4 to 122 °F (-20 to 50 °C) |
| Operating Humidity | 10 to 93% |
| Storage Temperature | 14 to 95 °F (-10 to 35 °C) |

Physical Features

| | |
|------------------------|---|
| Dimensions (L x W x H) | 1.3 x 2.8 x 4.9 in (3.3 x 7.0 x 12.5 cm) - with battery |
| Weight | ≤0.8 lb (0.4 kg) |
| Enclosure & Protection | Aluminum housing; protection rating IP67 according to IEC 60529 |



Specifications are subject to change without notice.
For the most up-to-date specs, go to www.flir.com

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20-0749-DET-DET-DATASHEET-REV-R300 A4



The World's Sixth Sense®