

### **IDENTIFINDER® R300**

Spectroscopic Pager for Radiation Detection & Identification





The 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.





# CONFIDENT, BELT-WORN PASSIVE RADIOLOGICAL SCANNING

Compact but powerful with rapid visibility to threats

- CZT detector provides unmatched ≤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)  $\leq$ 100 nSv/h - 10 mSv/h ( $\leq$ 10 µrem/h - 1.0 rem/h);  $\pm$ 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

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

USB 2.0; mini-B socket; Bluetooth® ≤50m range (removable Communication

Data Storage 2GB internal memory; up to 600,000 spectra <10 mins for operator; 1 day for advanced user Training Requirements

On-board webserver software Software

Power

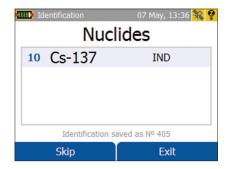
Input Voltage 100-240 VAC (wall and car adapters and USB cable supplied)

Internal single cell Li-ion; ≥24h operational battery life; **Battery Specs** 

recharge ≤3h when using AC; recharge >5.5h when using USB

Startup Time <2 mins from cold start

Specifications are subject to change without notice. For the most up-to-date specs, go to www.teledyneflir.com 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 lh (0.4 kg)Enclosure & Protection Aluminum housing; protection rating IP67 according to IFC 60529



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#### **APAC**

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