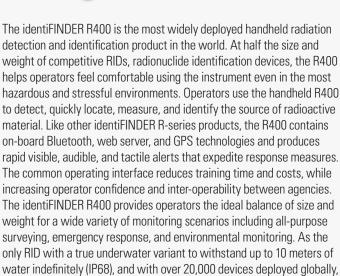


IDENTIFINDER® R400

Handheld Spectroscopic Radiation Detection & Identification











ALL-PURPOSE, FIELD-PROVEN RADIOLOGICAL SURVEYING

it is the most trusted RID in the world.

Over 20,000 deployed globally for tough, tried-and-true performance

- Nal or LaBr detectors provide custom solutions for sensitivity and resolution
- Available in gamma only or gamma and neutron models
- Underwater model able to withstand submersion up to 10 meters

FAST, RELIABLE IDENTIFICATION AND DETECTION

Rugged and mission-ready for fast frontline detection and response

- Quickly and efficiently detect, locate, measure, and identify sources
- Back-up gamma detector provides detection capability, even in high dose rate environments
- Identifies ANSI N42.34 library
- High resolution, low false alarms

RAPID ALERTS AND COMMUNICATIONS FOR EXPEDITED DECISION-MAKING

Easily transfer important tactical information

- Fast two-minute startup
- On-board GPS, webserver, and Bluetooth capabilities
- Common operating interface reduces training burden
- · Large, color display eases data interpretation



SPECIFICATIONS

identiFINDER R400	
Technology	Radionuclide identification device (RID)
Product Variants	NG ¹ , NGH ² , UW-NG ³ , UW-NGH ⁴ , LG ⁵ , LGH ⁸ , UW-LG ⁷ , UW-LGH ⁸ , T1 ⁹ , T2 ¹⁰
Gamma (Nal) 1-4	1.4 x 2.0 in (35 x 51 mm)
Gamma (Nal) Tungsten Shielded ^{9, 10}	0.9 x 0.8 in (23 x 21 mm) - Tungsten shielded
Gamma (LaBr3) 5-8	1.2 x 1.2 in (30 x 30 mm)
Neutrons (He-3) ^{2,4,6,8,10}	0.6 x 2.1 in (15 x 54 mm)
Gamma (High Dose Rate)	Geiger-Müller tube
Energy Range (Gamma)	20 keV - 3 MeV
Gamma Spectrum	1024 channels; 3 MeV
Dose Rate / Accuracy (Cs-137)	0 nSv/h - 10.00 mSv/h (0 nrem/h - 1.0 rem/h); ±30 %
Scintillator Dose Rate Range	0 nSv/h - 500 μSv/h (0 nrem/h - 50 mrem/h)
Geiger-Müller Dose Rate Range	100 μSv/h - 10 mSv/h (10 mrem/h - 1.0 rem/h)
Dose Range	0 nSv - 1 Sv (0 nrem - 100 rem)
Overload Dose Rate Range 100 rem/h)	10 mSv/h - 1 Sv/h (1.0 rem/h)
Neutron Sensitivity 2,4,6,8,10,14	2.6 cps/nv; ±20 %
Stabilization	Variants ^{1.4} - calibration source Variants ^{5.8} - LED
Typical Resolution	Variants ^{1-4, 9, 10} - less than equal to 8% Variants ⁵⁻⁸ - 4.5%
Service Interval	5-year factory maintenance
Sampling & Analysis	
Sample Introduction	Absorption of EM gamma 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
Sampling & Analysis	From a few seconds to minutes
System Interface	
Display & Alerts	Transflective color LCD
Communication	USB -1,2,5,6,9,10 LEMO Series K socket -3,4,7,8
Data Storage	2GB internal memory; up to 600,000 spectra
Training Requirements	<10 mins for operator; 1 day for advanced user
Software	Onboard webserver software, Nal Gamma Enrichment Measurements (NalGEM) algorithm - variant 10

Power	
Input Voltage	100-240 VAC (wall and car adapters and USB cable supplied)
Battery Specs	Either rechargeable NiMH or 4x AA pack (supplied); ≥8h operational battery life; recharge ≤4h when using AC; recharge >4h when using USB
Cold Start Time	<2 mins from cold start
Environmental	
Operating Temperature	-4 to 122 °F (-20 to 50 °C)
Operating Humidity	10 to 80% 1, 2, 5, 6, 9, 10 100% 3, 4, 7, 8
Storage Temperature	14 to 95 °F (-10 to 35 °C)
Physical Features	
Dimensions (L x W x H)	≤3.7 x 10.6 x 3.2 in (9.4 x 26.9 x 8.1 cm) - with battery
Weight	≤3.2 lbs (≤1.5 kg)
Enclosure & Protection	Aluminum housing; protection rating IP53 according to IEC 60529 variants 12.5.8.9.10; protection rating IP68 according to IEC 60529 variants 3.4.7.8; 10 m; 8 h



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

AMERICAS

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APAC

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EMEA

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Revised on 11/11/21 identiFINDER R400_Datasheet-A4 21-1110