

identiFINDER[®] 2

The Next Generation Handheld Radionuclide Identification Device

The FLIR identiFINDER 2 is a logical extension of the original identiFINDER series of handheld radionuclide identification device (RID) instruments. The thousands of identiFINDERs currently deployed worldwide have provided FLIR with a tremendous resource for suggestions and comments on how to improve the already exceptional identiFINDER. The identiFINDER 2 is the result of these comments and suggestions.

identiFINDER 2 is State-of-the-Art Technology

The monochrome LCD display has been replaced with a TFT LCD, 64k color, 320 by 240 pixel display that is readable in virtually all light conditions. The spectrum of the ultra versions is continuously LED peak stabilized to handle a wide range of count rates and conditions with no peak interference in the identification spectrum. Wired communication uses a micro USB connector, USB 2.0, or wireless via a Class 2.0 Bluetooth[®] interface, with a 10 m (32'9.7") range, which supports the reach-back capability, also provided. A Web interface is provided via USB emulated TCPIP (LAN) for monitoring and configuring the identiFINDER 2. A twelve channel, SiRF III GPS is included for incident location. Data storage has been enlarged to 1.8 GB to save more spectra and event information.

identiFINDER 2 is Still an identiFINDER

Unchanged are the size, shape and weight; the three button (4th for power) operation; the scintillation, neutron and GM detector types, sizes and sensitivities; the screens and menus, when operated in the original identiFINDER mode; the types of alarms; the radionuclide identification accuracy; and the reliability, support and service.

Every unit is supplied with a belt holster, wrist strap, battery pack for rechargeable and non-rechargeable batteries, charging unit and carrying case.



FEATURES

- Transflective color display
- LED stabilized
- 12 channel, SiRF III GPS
- Reach-back via Bluetooth[®] connected to DUN capable cell phone
- ANSI N42.42 output format
- Web interface for monitoring and configuring instrument
- Original three button operation
- Database with 1.8 GB event data storage
- Visible, audible and tactile alarm annunciators
- Embedded Windows CE operating system
- Easy Mode and Expert Mode



SPECIFICATIONS

DETECTORS

Gamma NaI ^{*1 *3 *5 *2 *4 *6}	Crystal size 35 mm (1.378") × 51 mm (2.008")
Neutron ³ He Proportional Counter Tube ^{*2 *4 *6}	15 mm (0.591") × 54 mm (2.126"); net: 14 mm (0.551") × 29 mm (1.142"); 8 atm
Gamma (High Dose Rate)	Geiger-Müller detector
GPS	12-channel SiRF III receiver

PERFORMANCE

Energy Range (Gamma)	20 keV – 3 MeV
Gamma Spectrum	1024 channels; 3 MeV
Dose Rate Range	0.000 μSv/h – 10.00 mSv/h
dto. Scintillator	0.000 μSv/h – 500 μSv/h
dto. Geiger-Müller Detector	100 μSv/h – 10 mSv/h
dto. Overload	10 mSv/h – 1 Sv/h
Dose Range	0.000 μSv – 1 Sv
Stabilization ^{*1 *2}	Calibration source; ±1 % for temperature change rate of 0.5 °C (0.9 °F)/min
Stabilization ^{*3 *4}	Calibration source; LED; ±1 % for temperature change rate of 0.5 °C (0.9 °F)/min
Stabilization ^{*5 *6}	LED; ±1 % for temperature change rate of 0.5 °C (0.9 °F)/min
Nuclide Identification	According to ANSI N42.34
Typical Resolution ^{*1 *3 *5 *2 *4 *6}	≤8 % FWHM at 662 keV at 20.0 °C (68.0 °F) ambient temperature

PHYSICAL

Dimensions (W × D × H)	248 mm (9.764") × 93 mm (3.661") × 75 mm (2.953")
Weight ^{*2 *4 *6}	1200 g (42.33 oz) including batteries

ENVIRONMENTAL

Operating Temperature	-20 °C – +55 °C (-4 °F – 131 °F)
Relative Humidity	10 % – 80 %, non condensing
Protection Rating	IP53 according to IEC 60529

BATTERY

Operating Duration	≥8 h at 20.0 °C (68.0 °F) in dose rate mode with dimmed display back light and GPS switched off
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DISPLAY

Type	Transflective color LCD
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INPUT/OUTPUT

USB	USB 2.0; micro-B socket
Bluetooth	Class 2.0; ≤10 m (32'9.7") range

Complete specifications available on request.

VARIANTS

Following variations of this device are available. Specifications differing for the variants are marked in the table.

- *1 **identiFINDER 2 NG** NaI detector; GM tube; internal 15 nCi ¹³⁷Cs source
- *2 **identiFINDER 2 NGH** NaI detector; GM tube; ³He tube; internal 15 nCi ¹³⁷Cs source
- *3 **identiFINDER 2 ULCS-NG** NaI detector; GM tube; LED stabilization; internal 3 nCi ¹³⁷Cs source
- *4 **identiFINDER 2 ULCS-NGH** NaI detector; GM tube; ³He tube; LED stabilization; internal 3 nCi ¹³⁷Cs source
- *5 **identiFINDER 2 ULK-NG** NaI detector; GM tube; LED stabilization; external ⁴⁰K source
- *6 **identiFINDER 2 ULK-NGH** NaI detector; GM tube; ³He tube; LED stabilization; external ⁴⁰K source

For situations not covered by these variants please contact our Marketing and Sales Department at the email address or phone number listed below.

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