

identiFINDER 2



The ICx Technologies identiFINDER™ 2 is a logical extension of the original identiFINDER series of handheld radioisotope identification detector (RIID) instruments. The thousands of identiFINDERs currently deployed worldwide have provided ICx 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.

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 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 33 ft (10m) 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 GB to save more spectra and event information.



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.

FEATURES

- Very much the same as the 10,000+ deployed original identiFINDERs
- TFT LCD 64k color display
- 2 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
- 1 GB event data storage
- Visible, audible and tactile alarm annunciators
- Embedded Windows CE operating system
- Meets ANSI N42.34 shock conditions



SPECIFICATIONS

Scintillation Gamma

Size	1.4" dia by 2" (35 mm by 51 mm) NaI(Tl)
Electronics	DSP (Digital Signal Processing) based
Typical Resolution	8% for Cs137 662 keV
Energy Range	20 keV to 3 MeV
Spectral Data Storage	1 GB SD memory card
Stabilization	LED peak stabilized
Stabilization Accuracy	± 1% for temperature change rate of <0.9 °F (0.5 °C) per minute
Corrections	On-line spectral linearization
Dose Rate Range	1 uR/h (0.01 μSv/h) to 100 R/h (1 Sv/h)
Dose Range	10 uR (0.1 μSv) to 100 Rem (1 Sv)
Extended Dose Rate Detector	Geiger-Mueller (GM) Tube, energy compensated
Neutron Detector	He3, moderated (optional)

Operating Conditions

Temperature	-4 °F to +131 °F (-20 to +55 °C)
Humidity	10% to 80% relative humidity, non-condensing
Shock	According to ANSI N42.34

Inputs/Outputs

DC Power/Charger	9V DC; 2A
Bluetooth	Class 2.0, maximum range 33' (10 meters)
USB	micro USB connector, USB 2.0
GPS	12 channels, Sirf III

Physical

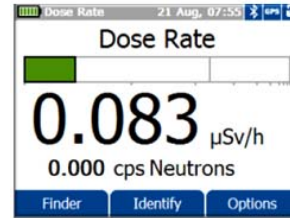
Size	9.25" by 3.7" by x 3" (235 x 93 x 75 mm)
Weight	2.75 lbs (1.25 kg)

Battery

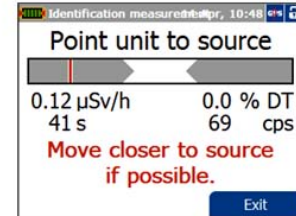
Two Power Packs	4 NiMH @ 2200 mAh @ 1.2 V, each
Operating time	>8 hours (full charge) dose rate mode
Charging time	4 hours (empty to full), fast charge

Display

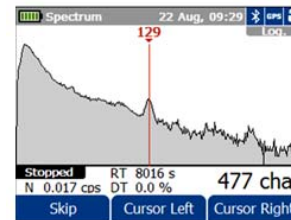
Display	TFT, True Color LCD, 64k colors
Size	2.7" by 2.7" (68.6 by 68.6 mm) 240 by 320 pixels
Center Brightness	Typical 400 cd/m2



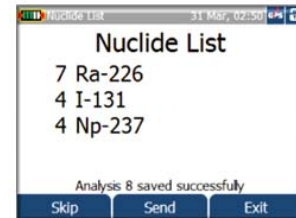
MEASURE



FIND



ANALYZE



IDENTIFY

Indicators

Dose Rate Alarm	Red LED
Neutron Alarm	Blue LED
Charging	Orange LED on rear panel
Ext. Power	Green LED on rear panel

Annunciators

LEDs	Beneath front display or on rear panel
Speaker	Rear side of instrument
Vibrator	Inside housing
Display	Alarm visualization

GPS

Built-in GPS, 12 channels. Sirf III receiver

Reach-Back

ANSI 42.42 data via Bluetooth to DUN compatible cell phone or USB

Web Interface

Via USB emulated TCP/IP(LAN)

Embedded Software

Windows CE Operating system

