

FLIR IDENTIFINDER R440 SPECIFICATIONS

Model Number	FLIR R440
Technology	Radioisotope identification device (RIID)
Gamma - NaI(Tl)	2.0 x 2.0 in (51 x 51 mm)
Gamma / Neutron - NaI(L (optional)	2.0 x 2.0 in (51 x 51 mm)
Energy Range (Gamma)	10 keV to 10 MeV
Gamma Sensitivity (Cs-137, NaI)	1850 cps/ μ Sv/h
Gamma Spectrum Length	1024 channels
Dose Rate Range (Cs-137, NaI)	10nSv/h - 10mSv/h (1 μ rem/h - 1rem/h) / \pm 30 %
Dose Rate Range ID Mode (Cs-137, NaI)	10nSv/h - 250 μ Sv/h (1 μ rem/h - 25mrem/h)
Overload Dose Rate Range (Cs-137, NaI)	10mSv/h - 500mSv/h (1rem/h - 50rem/h)
Stabilization	Sourceless gain stabilization (patents pending)
Linearization	Real-time linearization of gamma energy
Typical Resolution	\leq 7% FWHM at 662 keV with NaI detector at 20 °C
Service Interval	1 year factory maintenance suggested, not required
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Sampling & Analysis	
Sample Introduction	Absorption of EM gamma (NaI) or gamma and neutron emissions (NaIL)
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
Library Categories	SNM, IND, MED, NORM
Time to Alarm	From a few seconds to minutes
System Interface	
Display & Alerts	Transflective color LCD / 3" (2.72" x 1.61") Color TFT Display, Resolution: 800 x 480 pixels
Communication	USB 2.0, USB OTG; Bluetooth® Class 2.0 ≤10m range (removable); WiFi 802.11 g/n
Data Storage	32GB internal memory
Training Requirements	<10 mins for operator; 1 day for advanced user
GPS (removable)	12-channel SiRF III receiver
Software	On-board webserver software
Power	
Input Voltage	100-240V AC (wall adapter and USB cable supplied)
Battery Specs	Supplied: 2x rechargeable Li-Ion smartpacks and 1x 4x AA pack; ≤6h runtime with one Li-Ion smartpack, ≤12h with both Li-Ion; runtime of ≤4h with AA battery pack (Li-ion); Optional rechargeable NiMH ion smartpack with ≤5h runtime; recharge ≤4h when using AC; recharge >4h when using USB; run times specified are obtained

	with a mix of Dose Rate, Finder, and ID operating mode
Cold Start Time	<2 mins from cold start
Environmental	
Operating Temp (ambient)	-4 to 122 °F (-20 to 50 °C)
Operating Humidity	10 to 80%
Storage Temp	14 to 95 °F (-10 to 35 °C)
Physical Features	
Dimensions (L × W × H)	≤ 4 x 10.6 x 3.7in (10.2 x 26.9 x 9.4)cm - with battery
Weight	≤3.2 lbs (≤1.5 kg)
Enclosure & Protection	Aluminum housing; protection rating IP67 according to IEC 60529