



IdentiFINDER R500 FLIR

HIGHLY SENSITIVE HANDHELD
SPECTROSCOPIC DETECTION & IDENTIFICATION

- RADIONUCLIDE IDENTIFICATION DEVICE (RID)
- HIGH RESOLUTION, LOW FALSE ALARMS
- FAST, TWO-MINUTE STARTUP
- AUTOMATIC CALIBRATION AND CONTINUOUS LED STABILIZATION

HIGHLY SENSITIVE DETECTOR

Easily locate heavily shielded sources and detect from farther away

- Large NaI or LaBr detector surface areas allow for detection of shielded sources and wide area scanning
- Detects radiation source within a few seconds and reduces time to locate source
- Available in gamma only or gamma and neutron models
- High resolution, low false alarms

RELIABLE PERFORMANCE

Quickly and efficiently detect, locate, measure, and identify radiological sources

- Fast, two-minute startup
- Identifies ANSI N42.34 library
- Back-up gamma detector provides detection capability, even in high dose rate environments
- Automatic calibration and continuous LED stabilization for temperature control and other conditional changes



THE FLIR IDENTIFINDER R500 IS THE MOST SENSITIVE RADIONUCLIDE IDENTIFICATION DEVICE (RID) AVAILABLE AND IS CAPABLE OF RAPIDLY LOCATING AND IDENTIFYING RADIOACTIVE MATERIAL IN DIFFICULT MONITORING SCENARIOS.

Like other identiFINDER R-series products, the R500 contains on-board Bluetooth, web server, and GPS technologies. It produces rapid alerts that expedite response measures and enable field operators to make a next step determination. The common operating interface and template matching technology provides immediate comfort and confidence when using the device. The additional detector volume allows the R500 to identify radioactive material where other instruments cannot. When large areas need to be screened rapidly or there is potential for shielding, as in truck and cargo scanning, the identiFINDER R500 provides superior sensitivity and performance compared to other RID devices.

EASILY OPERATED

Rapid alerts and communications for expedited decision-making

- Easily transfer important tactical information
- On-board GPS, webserver, and Bluetooth capabilities
- Common operating interface reduces training burden
- Large, easy-to-read color display



IdentiFINDER R500 FLIR



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 N42.34
Sampling & analysis	From a few seconds to minutes

SYSTEM INTERFACE

Display & alerts	Transflective color LCD
Communication	USB 2.0; mini-B socket; Bluetooth® Class 2.0, ≤10m range
Data storage	2GB internal memory; up to 600,000 spectra
Training requirements	<10 mins for operator; 1 day for advanced user
GPS (removable)	12-channel SIRF III receiver
Software	On-board webserver software

POWER

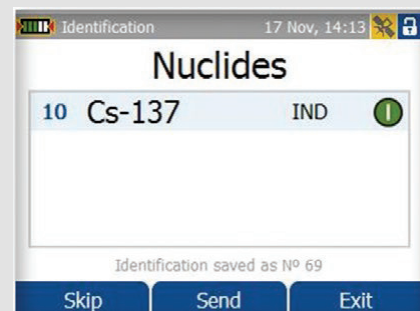
Input voltage	100-240 VAC (wall and car adapters and USB cable supplied)
Battery specs	FLIR powerPACK ultra 2 (LSD NiMH, rechargeable); ≥ 8h operational battery life; recharge ≤4h when using AC; recharge >4h when using USB
Cold start time	<2 mins from cold start

ENVIRONMENTAL

Operating temperature	-20 to 50 °C
Operating humidity	10 to 80 %
Storage temperature	-10 to 35 °C

PHYSICAL FEATURES

Dimensions (L x W x H)	21,1 x 12,9 x 32,3 cm - with battery
Weight	≤ 2,9 kg
Enclosure & protection	Aluminum housing; protection rating IP54 according to IEC 60529



HTDS

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