

FLIR Systems, Inc. - identiFINDER 2



GENERAL DESCRIPTION:

The identiFINDER is the world's first in a series of handheld instruments capable of detecting the presence of gamma radiation and identifying the radionuclide. Every identiFINDER is able to detect, rapidly locate, accurately measure and precisely identify sources or contaminations from gamma radiation. The ability to detect X-ray sources as well as the presence of neutrons in the radiation field via an optional neutron detector allows a wide application scope. The identiFINDER 2 is a logical extension of the original identiFINDER series of handheld radio- isotope identification detector (RIID) instruments.



TECHNICAL DESCRIPTION:

The identiFINDER includes a NaI or LaBr detector plus a GM tube, for high gamma dose rate measurements is also one of the first handheld instruments to implement Digital Signal Processing (DSP). Three push buttons that align with on-screen menu items are all that is needed to operate this instrument, even with only one gloved hand. 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.

CONTACT INFORMATION

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COST

N/A

Tier Selection

Final tier assignment is based on overall product score.

● Top Tier
 ● Second Tier
 ● Third Tier
● Fourth Tier
 ● Bottom Tier

RANKINGS

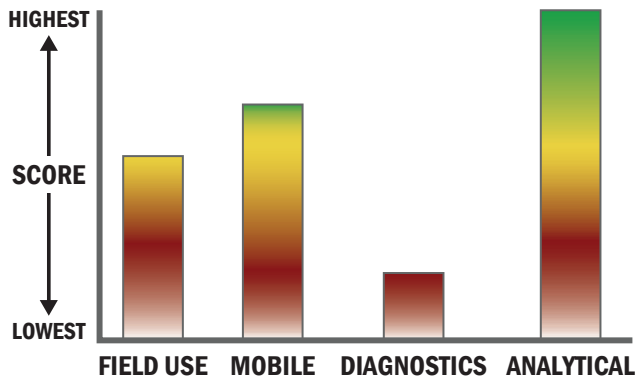
	Biological	Chemical	Radiological
FIELD USE System	N/A	N/A	●
MOBILE Laboratory	N/A	N/A	●
DIAGNOSTIC Laboratory	N/A	N/A	●
ANALYTICAL Laboratory	N/A	N/A	●

Survey Source

Vendor Supplied Information

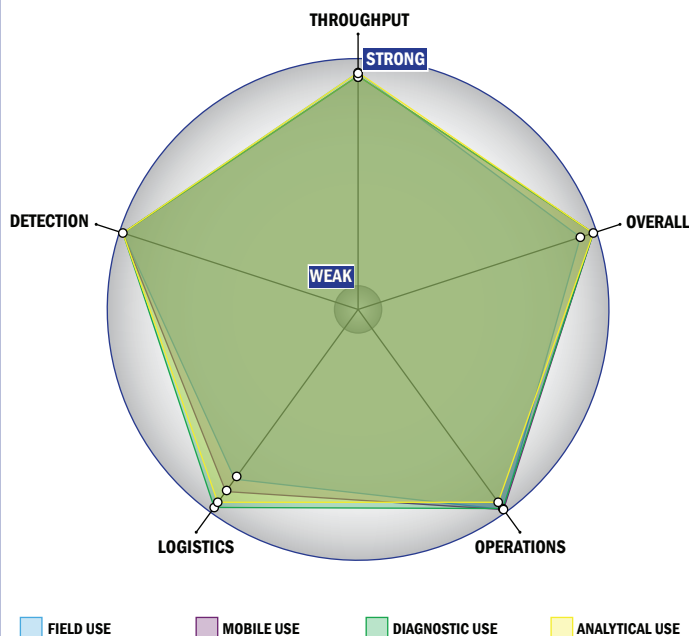
Scoring Analysis

System scores are compared across the four scenarios and ranked from highest to lowest.



Impact Chart

The Impact Chart is a spider graph representing specific categories and designed to give the reader a visual depiction of how a particular system is expected to operate across the four different scenarios. The score for each of the seven categories is presented as the percentage of the total possible score. Higher category scores extend the spokes of a graphic toward the outer edge of the chart. The area graphed for each of the four scenarios relates to how well the system performed in that scenario. Graphics for each of the four scenarios are super-imposed for ease of comparison.



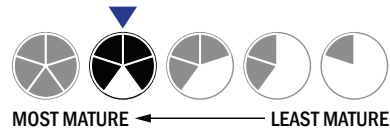
Evaluation Criteria

Throughput:

- Detection is instantaneous
- Continuous operation with no defined runs
- Greater than 750 samples every 2 hours
- The system or device is currently fully automated
- Device or system is intended for multiple detection assays
- 0-1 solutions, buffer, eluents, and/or reagents
- 0 components
- Less than 5 minutes is required for set-up
- Automatic detection

Logistics:

- Very brief (minutes-hours) training and minimal technical skills
- Approximately the size of a soda can
- Between 5 and 25 kg
- Wireless and wired connections are available
- System or device uses batteries
- 4-8 hours battery life



Operations:

- Can be used from -21°C to 42°C (All temperatures)
- Performance is not influenced by relative humidity
- Greater than 10 years expected life
- Results can be viewed in real-time
- The system could easily be adapted into a fully autonomous system
- The system software is closed and not available for modification
- The system hardware is closed and not available for modification

Detection:

- Possible the system could receive 510K clearance, no current efforts at this time
- This system does not test liquids
- Superior specificity. System has a false alarm rate approaching zero (~0%)
- Total dose, dose rate and count rate with operator selection to show the display
- Down to background level radiation for dose rate
- Down to background level radiation for count rate
- System is used for personnel detection