

nanoRaider™

HIGH RESOLUTION RADIATION DETECTION & IDENTIFICATION IN THE PALM OF YOUR HAND

When radiation detection capabilities are necessary, operators must rely on the accuracy and dependability of their instruments. With the highest detector resolution available in a pager-sized device, the nanoRaider™ virtually eliminates the false alarms and false positives that are so common to personal radiation detectors. With both detection and identification capabilities available in a single, rugged device, those on the front lines of homeland security can trust the nanoRaider to make their job easier.

About the same size as a cellphone, the belt wearable nanoRaider provides continuous detection capability with visible, audible and tactile alerts. Once radiation has been detected, the fast identification capability of the instrument provides essential information to the user in the field, enabling them to make a next step determination. The One Touch Reachback™ feature integrated into the nanoRaider allows the user to immediately send a notification to team members, superior officers, situation management personnel, and expert analysts – all with a single push of a button.

The nanoRaider uses uniquely constructed Cadmium Zinc Telluride (CZT) detectors that enable exceptional sensitivity and identification capabilities never before seen in a spectroscopic personal radiation detector (SPRD). The characteristic design of FLIR CZT detectors is more rugged than scintillation-based detectors and does not require temperature stabilization. The nanoRaider is also available with an optional neutron detector as well as a full range of accessories.

To reduce the training burden, the nanoRaider uses the same easy to understand and navigate user interface common to the entire family of FLIR radiation detectors. With two-button controls, operators can pick up a nanoRaider and begin using it simply and quickly.

With the nanoRaider, FLIR continues to provide the most technologically advanced radio isotope identification devices in the industry.



BENEFITS

- Designed and built to meet the most rugged field environments
- Easy to read display, even in bright sunlight
- High resolution in a small device
- Ease of use in high background environments
- Highly reliable, accurate results
- Small enough to be carried on a belt or in a pocket
- User interface almost identical to other FLIR radiation detectors, such as the identiFINDER®
- Virtually eliminates the false alarms and false positives inherent in other personal radiation detectors



ONE TOUCH REACHBACK™

Like other FLIR radiation instruments, the nanoRaider enables the most advanced communications features available in any class of radiation detector. With One Touch Reachback, users can immediately provide full spectroscopic data as well as detailed device information, time, and GPS location to as many people as necessary with the push of a button.

No longer do users have to physically connect their device to a computer, install secondary software, or use external email to provide alarm notifications. Through a simple Bluetooth® connection, such notifications are all but automatic. This unique capability provides added security by retaining all detection and identification data on the instrument itself and not on a local computer.

NEXT GENERATION CZT

Cadmium Zinc Telluride (CZT) detectors are known for better resolution in a smaller detector without the need for temperature stabilization. Through ongoing research and development, FLIR has optimized this material for radiation detection and accurate source identification. In the nanoRaider, this ability virtually eliminates the inconvenience and expense associated with false alarms and false positives, not to mention the time involved in obtaining secondary inspections necessary to clear an alarm. In addition, the CZT material is naturally more rugged than typical scintillation detectors and is able to survive the general abuse typical of field deployments.

A FAMILY OF INSTRUMENTS

Unlike other companies, FLIR takes the approach that one size doesn't fit all. We understand how important it is to have an instrument that meets the specific requirements of the mission at hand. To that end, the nanoRaider provides the same high quality results as much larger instruments, but with an inconspicuous, compact design.

The entire family of FLIR radiation instruments has been developed to address the specific sensitivity, resolution, size, and weight requirements of a variety of applications. Furthermore, each of these instruments, including the nanoRaider, employs the same simple to use and understand interface, which in turn reduces the training burden. With more than 14,000 radiation instruments deployed worldwide, the well-known and trusted FLIR user interface has become industry standard.

WEB INTERFACE



FEATURES

- Transflective color display
- 24 hour battery life
- IP63 compliant enclosure protection
- Data storage for up to 600,000 identifications and spectra and over 1 million alarms
- ANSI N42.48 compliant
- Standard ANSI N42.42 data output format as preferred by triage teams as well as the government and scientific communities



The Americas

2800 Crystal Drive
Suite 330
Arlington, VA 22202
T +1.703.416.6666

Middle East

Suite 1-11
Building 6E-A
Dubai Airport Freezone
PO Box 371363
Dubai, UAE
T +971 4 701 7195
F +971 4 701 7194

Europe

Piepersberg 12
42653 Solingen
Germany
T +49 212 222090
F +49 212 201045

Asia

Level 28 Gateway East
152 Beach Road
Singapore
T +65.6827.9789
F +65.6295.2567

www.flir.com/detection