



MIRION
TECHNOLOGIES

ACCURAD

PERSONAL RADIATION DETECTOR



**By emergency responders.
For emergency responders.**



ENSURING SAFETY AT PUBLIC EVENTS

Major public events — from professional sports games, to political and religious gatherings — attract tons of people to a single venue, emphasizing the need for reliable solutions to protect against potential radiological threats. Discreet and easy-to-use, AccuRad™ PRDs can be deployed in large numbers to monitor the event site and surrounding areas, keeping yourself, your team and the public safe, while keeping it all on the down-low.

Survey the Site with Wearable Detection

Before and during large public events, personnel with PRDs should be assigned to areas in and around the venue, including access points, entrances and exits, parking lot and grounds, restrooms, corridors, and rooftops. With the AccuRad PRD securely fixed to their pockets or belts, you can cast a wide net for detecting any radiological threats.

Locate and Adjudicate Elevated Readings

When an alarm or elevated radiation level is observed, the AccuRad PRD's directional screen indicator helps to quickly localize the detected source so you can locate any radioactive materials and determine whether or not they pose a possible threat to public health and safety.

Use Smartphone-Based App Connectivity

Personnel in plain clothes should consider using their PRD covertly by placing it in a pocket or backpack and get alarms by using the AccuRad PRD smartphone application. The app can also be used to transmit data to a remote reachback system for analysis and to help quickly facilitate response measures.



RELIABLE PROTECTION FOR CRITICAL INFRASTRUCTURE

AccuRad PRDs empower first responders to efficiently detect and assess radiological risks within and surrounding critical infrastructure, such as government or UN buildings. With state-of-the-art radiological monitoring performance delivering accurate intel, you can count on AccuRad PRD to help secure these facilities, protecting people, property and the environment.

Survey People, Places and Things

Security and Rad/Nuc team members should be deployed to the facility and surrounding area, securing the cities by using PRDs to survey all persons approaching or crossing the security perimeter, in addition to surveying parked vehicles, storage areas, warehouses, mailboxes, waste receptacles and pedestrians, drivers or cyclists nearby.

Locate Elevated Radiation Sources

In the event of an alarm, PRDs can help identify the precise location of the source of any elevated radiation levels noted during surveys. If the elevated reading is from a vehicle, for example, AccuRad PRD's search mode can help determine if the radiation originates from the passenger compartment or from cargo space.

Get Alerts for Real Threats Only

Innovative varying background technology powers the AccuRad PRD's, so you can cut out the background noise and locate the source more efficiently.



BEST-IN-CLASS SOLUTION FOR BORDER SECURITY

Prevention is imperative when it comes to protecting the health and safety of the public from threats of radiological terrorism, and high-performance PRDs are the first line of defense. With wide dose rate measurement and accurate source localization, the AccuRad PRD ensures efficient detection and assessment of any radiation risks during interdiction efforts at border crossings and transport corridors.

Enhance Surveillance at Crossing Stations

Whether responding to potential smuggling of radioactive materials or a threat of radiological attack, local, state, and federal personnel with PRDs can be dispatched to scan for elevated radiation dose rates from all persons and vehicles at border crossings and at checkpoints located along major transportation routes.

Adjudicate Abnormal Radiation Readings

Radiation and radioactivity are not uncommon, and there are legitimate industrial sources and vehicles carrying or delivering these sources that can cause alarms. Adjudicating these alarms is an important aspect of radiological and nuclear interdiction operations, and AccuRad PRDs can help quickly determine if elevated dose rates are innocent or malicious.

Monitor Remotely with Reachback Connectivity

Designed with a corresponding smartphone application, the AccuRad app allows real-time data relay and reachback connectivity to common operational data platforms, so central command facilities for state or federal agencies and territorial response organizations can help track threats and have the information they need to coordinate any necessary response efforts.



FIRST LINE OF DEFENSE FOR EMERGENCY RESPONDERS

Emergency responders often put themselves in the line of danger in order to protect the public. AccuRad PRDs give emergency responders peace of mind with accurate dose readings and reliable alarms.

Radiation Exposure Readings with Expert Level Accuracy

The AccuRad PRD provides dose measurement and dose alarms for radiological events, utilizing Mirion's depth of expertise in the radiation safety industry. The AccuRad PRD can alarm emergency personnel visually, audibly and with vibration, capturing a wide dose range.

Get Real-Time Data Relays

With AccuRad PRD's app connectivity, you can connect and transmit device data to a remote software platform, broadening situational awareness on the ground and supporting investigations and adjudications of elevated radiation levels.

THE **EVER-CHANGING REALITY** OF RADIATION SAFETY requires a **next-generation PRD**, purpose-built to respond to the needs of emergency personnel.



"I keep this thing on me 24/7 when I'm working... It's like carrying the gun; you know it's there, but you don't have to think about it."

- TIM PRICE, COBB COUNTY BOMB SQUAD

AccuRad™

NEXT-GENERATION PRD

AccuRad PRD,
actual size

4.25 x 2.40 x 1.42 in.
(108 x 61 x 36 mm)

Top-view, hands-free
display



Belt clip



DISPLAY

Hands-free usage: standing up (top display) or seated (front display)

Large and highly readable front display for source search in daylight and nighttime conditions

Languages:
English, Spanish

MODES OF OPERATION

Dose rate or dose level indicator (0-9)

Search with trend: a chart indicates radiation peaks and valleys over time

Search with radar: follow the black sector and arrows to find the source

Discreet mode for covert operations

BUTTONS AND NAVIGATION

Comfortable to operate with one hand

Intuitive, even without training: press any button to acknowledge alarm sound; familiar select and back buttons (similar to smartphone navigation); up and down for menu navigation.

ALARMING

Vibration

Visual LED

Audible sound:
85 dB(A) at 30 cm (11.8 in.)