# AccuRad<sup>™</sup> PRD

Personal Radiation Detector

A discreet yet robust gamma radiation detecting PRD designed for law enforcement, fire rescue, and other emergency responders to detect and interdict nuclear and radioactive materials. It also provides dose measurement and alarming capabilities for event response.

## A FIRST OF ITS KIND

- · Solid and durable, with an impact-resistant covering
- Simple to use no training required
- Discreet, with a top-screen display for quick-glance reading
- Long-lasting, easily replaceable batteries allowing more than 900 hours in the field
- · Directionality, helping users zero in on trouble faster
- · Low cost of ownership

## MADE BY RADIATION EXPERTS

Mirion, and in-the-field professionals.

**Only get alerts for real threats.** The AccuRad PRD runs on innovative Variable Background Suppression (VBS), allowing operation in varying background environments and will alarm only for a real threat or hazard.

**Get accurate radiation exposure readings.** The AccuRad PRD provides dose measurement and dose alarms for radiological events, utilizing Mirion's long-standing expertise in the radiation safety industry.

Analyze incoming information in real time. The app allows real-time data visualization and real-time data relays to increase situational awareness across many PRDs and other detectors. Compatible with a variety of platforms, including RadResponder, Sigma and SpirVIEW Mobile™ software.

## BY EMERGENCY RESPONDERS. FOR EMERGENCY RESPONDERS.

The AccuRad PRD is the first PRD developed in close collaboration with state and federal law enforcement and first responders to fit seamlessly into their routines and address the most critical, in-the-field needs from a radiation detection device.

TECHNOLOGIES

54.6 micro

MIRIO.

\*ずの 13:29 LOW ALARM

microRem/h

The AccuRad PRD is built:

**For the reality of field work:** rough treatment, harsh conditions. The AccuRad PRD is solid, durable, with an impact-resistant covering to stand up to the test, time and time again.

**For discreet, hands-free detection.** The AccuRad PRD is lowprofile and easy to read with the top-screen display. Users no longer need to remove the PRD to take a look.

For waterproof protection for when teams are (literally) putting out fires.

**For "set it and forget it" use,** with minimal training and maintenance required. The AccuRad PRD is in-the-field easy — simple to use even in the toughest situations and offers a tutorial library in the smartphone app.

For when you can't let a source get away. Find the location of a radioactive hot spot in a large, busy environment with built-in directionality.

**For an entire week, month, mission...**without a battery change. The AA batteries in the AccuRad PRD last for 900 hours in the field, and are easily replaceable with commercial batteries.



## CHARACTERISTICS

#### Physical

- Weight: 7 oz (200 g), including clip
- Size: 4.25 x 2.4 x 1.4 in. (108 x 61 x 36 mm) without clip

#### **Batteries**

- Two AA batteries for more than 900 hours of continuous operation
- Tool-less battery cover

#### Environment

- Protection rating: IP67 (dust and 1 m (3 ft 3 in.) water immersion)
- Temperature: -4 °F to 140 °F (-20 °C to 60 °C)
- Drop: 1.5 m (4 ft 11 in.) on concrete
- Innovative heavy-duty bi-material construction
- Replaceable fiber-reinforced clip

### **USER INTERFACE**

#### **Modes of Operation**

- Dose or count rate
- Search with trend or radar
- 0-9 display indicator

#### Display

- Top display enables hands-free visual alarm assessment
- Reverse contrast option
- Languages: Arabic, Chinese, English, French, German, Japanese, Korean, Polish and Spanish

#### **Buttons and Navigation**

- · Intuitive to use even without training
- Comfortable for one-handed operation

#### Alarming

- Vibration
- Visual LED
- Audible sound: 85 dB(A) at 30 cm (11.8 in.)



# RADIOLOGICAL PERFORMANCE

#### Detectors

- CsI(TI) scintillation detector with temperature compensated SiPM for interdiction missions
- Silicon diode for integrated dose and high dose rate to ensure proper health and safety

#### **Detection Performance**

- Alarms at 50  $\mu rem/h$  (0.5  $\mu Sv/h) within two seconds$
- VBS: Authenticates true alarms in variable backgrounds
- Energy range: 25 keV to 3 MeV; detects all radionuclides of concern

#### **Dose Rate Range**

• Up to 1000 rem/h (10 Sv/h) with measurement history

#### **Dose and Dose Rate**

• Accuracy: ±20% (Cs-137), ±20% (Am-241)

## CONNECTIVITY

- Bluetooth  $\ensuremath{^{\scriptscriptstyle \otimes}}$  Low Energy with Near Field Communications (NFC) pairing to smartphone
- USB type C for earphones, maintenance and charging

## APPLICATION ENABLED FEATURES

Remote display, settings, access to history and logs (כוסדכחס ios

Reachback/streaming: email, SMS, SpirVIEW Mobile software, RadResponder

Learning section with how-to videos and documentation



## ACCESSORIES AND RELATED PRODUCTS

- Standard: AccuRad PRD, AA alkaline batteries, quick guide, spare clip
- USB C earphones, clip, battery cover, car holder, carrying cases
- Radiation safety training modules for law enforcement, fire rescue and other responders
- SpirVIEW Mobile command center software
- AccuRad PRD-SIM kit: Sourcelss
  training simulators

## STANDARDS

• Compliant with ANSI N42.32-2016 and IEC 62401:2017





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