

# Mini Rad-D

## Personal Radiation Detector



### *Find Radioactive Materials Anywhere, Anytime.*

The **Mini Rad-D** Generation 3 builds upon the solid foundation of the Mini Rad-D product incorporating key improvements around product reliability and ruggedness in harsh environments. The Mini Rad-D is a highly portable, rugged, all-weather radiation detector that's small enough to wear on a belt, yet powerful enough to quickly locate low-level radioactive sources, even in a warehouse full of boxes.

Designed to discreetly monitor any environment without intrusion or disruption of civilian activities, the Mini Rad-D can be set to notify the user by vibration or audible alarm whenever gamma radiation exceeds natural background levels. The Mini's simple operation and highly readable display provide an automatically updated strength indicator in less than one (1) second, allowing a rapid area survey to identify the exact location of any radiation source.

When activated, the Mini Rad-D measures the background radiation count for 30 seconds and then uses that value to establish background radiation levels. Any radiological isotope that comes within range of the Mini Rad-D will activate the audio or vibration alarm and the display will show a value from "1" to "9" to indicate the radiation detected. The audio and vibration alarms increase in repetition rate the closer the Mini Rad-D is brought to the radiation source.

The Mini is designed to work in all weather conditions, survive submersion, survive a 3 ft drop onto a concrete floor and work in high-density RF environments. The Mini Rad-D uses two AA batteries to provide a battery life of over 2 years when used 48 hrs/week. That's over 6 months if used 24/7. The Mini Rad-D is one of the most widely used and trusted PRD's in the world today.

### APPLICATIONS

- First responders
- Firefighters
- Custom agents
- Vehicle inspectors
- Cargo inspectors
- Waste and Recycling
- HAZMAT teams
- Public Safety officers

# Mini Rad-D

## SPECIFICATIONS

Detector	1.3 cm diam x 3.8 cm Cesium Iodide -CsI (Na) Scintillation detector with high-sensitivity photo-multiplier tube
Display	Intense, large LED display
Power	Two AA batteries
Battery Life	5,000 hours
Alarm	Audio, vibrate, visual
Response Time	< 1 second
Background Compensation	Automatic
Energy Range	50 Kev to 3 Mev
Dimensions	3.7 x 2.5 x 1.2 in (94 x 64 x 30.5 mm)
Weight	6.5 oz (184 gr)
Environment	Driving Rain, operates in high RF environment
Temperature	10° to 122° F (-20° to 50° C)
Humidity	93% RH non-condensing at 95° F (35° C)
Drop Test	No Holster – 5 ft (1.5 m) drop onto a concrete floor
Warranty	2 year parts and labor

### CUSTOM RADIATION SCALES

The mini rad-D comes with the “1” to “9” scale calibrated to a standard scale. If desired, the mini rad-D can be configured with a custom scale to meet your specific detection level requirements.

### Alarm Level Equivalents

Alarm Level	mRem/Hr	uSv/Hr
1	0.035	0.35
2	0.04	0.40
3	0.055	0.55
4	0.065	0.65
5	0.1	1.00
6	0.2	2.00
7	0.35	3.50
8	0.6	6.00
9	1.1	11.00

## FEATURES

- User friendly – minimal training requirements
- Works in all weather and temperatures
- Very low false-alarm rate
- 2 year battery life
- Rugged – can be dropped from 3 feet
- Loud audible alarm
- Silent/vibrate mode
- Adaptable for use near X-ray machines
- Bright display, visible day and night
- “On-board” alarm level guide

