

mini rad-D™

Personal Radiation Detector



Find Radioactive Materials Anywhere, Anytime.

The **mini rad-D** is a 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 among crowds of thousands of people or warehouses with thousands of packages. 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 radiation exceeds natural background levels. The mini rad-D is as easy to use as a flashlight and requires just about as much training. It has a single switch that puts it into audible alarm mode, vibrate alarm mode, or turns it off.

The mini automatically calibrates itself to the natural background radiation, maximizing its detection sensitivity in any environment. What happens when the mini detects radiation? It will alarm or vibrate, depending which mode it is in and display a simple intensity number of a "1" to a "9" on a large, bright, easy to read LED display. The mini rad-D's simple, single digit, makes protocol and procedure training as easy as "if it shows a 4 or larger, do this..." The mini is designed to work in all weather conditions, survive submersion, survive a 3 ft drop onto concrete, and work in high-density RF environments, including alongside powerful transmitters. 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. You could even attach it to the dashboard of a vehicle, leaving it quietly searching for radiation for over 6 months.



Flexibility, Functionality, and Affordability make the mini rad-D A practical tool for use by:

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

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FEATURES

- User friendly – if you can read this, you can use the mini rad-D
- 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



SPECIFICATIONS

| | |
|----------------|--|
| Detector: | .5" diam x 1.5" (1.3 cm diam x 3.8 cm) Cesium Iodide Scintillation detector with high sensitivity photo-multiplier tube |
| Energy Range: | 30 keV - 3 Mev |
| Display: | Intense, large LED display |
| Power: | Two AA batteries |
| Battery Life: | 5,000 hours |
| Response Time: | Less than 1 second |
| Calibration: | Automatic |
| Dimensions: | 3.7" x 2.5" x 1.2" (94mm x 64mm x 30mm) |
| Weight: | 0.4 lbs (0.2 kg) |
| Environment: | Driving Rain -10° F to 122° (-23° C to 50° C) 3 ft (91 cm) drop onto concrete Operates in high RF environments |

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 | 3.00 |
| 7 | 0.35 | 3.50 |
| 8 | 0.6 | 6.00 |
| 9 | 1.1 | 11.00 |

