ADVANCED TECHNOLOGY FOR A SAFER WORLD

# Rad-DX SafeGuard

**Real-time Remote Radiation Detection**



**Radiation area monitor that provides real-time detection, data collection, and location of radiation threats/incidents within a local, statewide, or even national area**.

## FEATURES

- D-tect SensorNet™ (mesh network) equipped – automatic connections between all Rad-DXs
- Integrates with your local network integration via encrypted WiFi or Ethernet
- Battery back-up for added reliability
- Highly sensitive sensors provide fast detection
- Radiation detection in less than 1 second
- Sensitive dose rate and total dose measurement and recording
- Fully scalable and expandable
- Built in to a weatherproof NEMA rated enclosure with mounting plate and cooling fan
- NEMA Type 3R, 3RX / IP24

The Rad-DX SafeGuard is a state-of-the-art radiation area monitor that provides real-time detection, data collection, and location of radiation threats across any area. It is a wireless mesh networked radiation detector with a sensitive scintillation detector which allows it to detect discreet sources of radiation in less than one second. SafeGuard incorporates the exclusive D-tect SensorNet mesh network, an automatic communication network that allows users to monitor a full network of Rad-DX SafeGuard devices.

The Rad-DX SafeGuard system has the capacity to provide radiation readings from any remote location. The real-time threat assessment can be determined over a large area via wireless communications. The Rad-DX SafeGuard system uses a sensitive scintillation detector and supplies dose rate data from 1.0 uR/Hr to 100 mR.Hr. The SafeGuard network can be established in a fixed or mobile mode, which can be configured and reconfigured, depending upon your detection objectives.

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# Rad-DX SafeGuard

## COMMUNICATION

The Rad-DX operates on the new and exclusive D-tect SensorNet - an automatic communication network that allows users to monitor a full network of Rad-DXs as long as they are in range of a single Rad-DX The Rad-DX units will automatically form an intelligent, self-healing mesh network, allowing them to be constantly connected to each other as well as to the user network.

## CONTROL & MONITOR BY SMARTPHONE

Each Rad-DX can be controlled and monitored by a PC on the network or across the internet on any Tablet or remote PC. 128-bit encryption protected. Monitoring can be real-time or past event logs can be reviewed.

## INTUITIVE INFORMATION DISPLAYS

Monitor all the Rad-DXs on a floor plan, within a facility or on wide area map. The display provides an intuitive understanding of the location of the devices and can track the motion of a radioactive source. Dose rates can be viewed in multiple graph formats.

## RAD-DX SAFEGUARD SPECIFICATIONS*

| | |
|---|---|
| **Detectors** | Large 6cm$^3$ scintillation crystal - CsI |
| **Communication** | D-tect SensorNet, WiFi, Ethernet, USB |
| **Power** | 120/240V AC, 50/60Hz,<br>110/220 V – Auto Detect,<br>< 10 watts |
| **Battery Back-Up** | Lithium Ion, 3 Hours |
| **Detection Speed** | Less than 1 second |
| **Energy Range** | 59 keV – 2 MeV |
| **Calibration** | App for on-site self calibration |
| **Units** | uR/Hr, mR/Hr, uSv/Hr |
| **Dose Rate Range** | Min 1 uR/Hr (.01 uSv/Hr)<br>Max 100 mR/Hr (1 mSv/Hr) |
| **DR Linear Error** | +/- 10% to Cs137 |
| **Enclosure Material** | Fiberglass reinforced polyester |
| **Enclosure Color** | Machine tool gray |
| **Voltage** | 120 VAC |
| **Fan Power** | 12 Watts |
| **Weight** | 8.5 lbs (3.9 kg) |
| **Mounting Plate Material** | .10” (2.5 mm) thick anodized aluminum |
| **Mounting Plate Dimensions** | 12” x 9.3” (30.5 cm x 23.2 cm) |
| **Outside Dimensions** | 13.32” x 11.32” 5.60”<br>(38.83 cm x 28.75cm x 14.22cm) |
| **Inside Dimensions** | 12.00” x 10.00” 5.27” (4.69” plate to cover)<br>(30.48 cm x 25.40cm x 13.39cm) |
| **Flame Rating** | UL 94-5V |
| **RoHS Compliant** | Yes |
| **Cable** | ½” cable conduit connector |
| **Ratings** | NEMA type 3R, 3RX / IP24 |


12”x10”x5” Weather proof enclosure with mounting plate, cooling fan, and surge protection

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