



MiniRad-DX

KEY FEATURES

- Portable dose rate detector with integrated network capability
- Small, lightweight, and rugged with a rubberized grip
- Remote monitoring by PC, smartphone, or tablet
- D-tect SensorNet (mesh network) equipped - automatic connections between all Rad-DXs and MiniRad-DXs within 1000 m
- Sends email alerts within 2 seconds when radiation is detected
- No device docking necessary to recover logs - automatically uploads detection logs wirelessly
- Real-time dose rate graph
- Two displays: one bright full-color LCD screen and one bright OLED screen
- Integrated GPS tracking in each MiniRad-DX
- Detector uses an integrated PMT, which provides greater sensitivity across a wider temperature range than photodiode-based detectors
- Real-time command monitoring of current status, GPS locations and alarms of a whole network of MiniRad-DX units



Radiation Detection

The MiniRad-DX product is part of D-tect System's growing line of radiation detection products which communicate with one another using a mesh network. This device is the mobile offering in our Rad-DX product line. The MiniRad-DX is compact, rugged and just as sensitive as its stationary counterpart. The sturdy plastic housing and grippable rubber molding allow the device to be used in a wide variety of environments.



Mesh Communication

The MiniRad-DX operates on the D-tect SensorNet - an automatic communication network that allows a user to monitor and oversee a network of Rad-DX devices by simply being within range of a single Rad-DX device! Rad-DX and MiniRad-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. The network is encrypted, allowing monitoring only by approved personnel.





Intuitive Information Displays

Equipped with two bright, high resolution display screens, the user can get detailed information and adjust settings from the front screen and view critical information on the top screen even when it is holstered and hanging on a belt or pocket.



Versatility

Each MiniRad-DX can act as a standalone radiation detector with audio and vibration alarms. Device information can be found using the Menu screen directly. Once the MiniRad-DX comes within range of its mesh network, it will automatically upload data to the DX-View or DX-Dashboard software program through the device connected to a PC.



SPECIFICATIONS

Radiation Detector	6 cm ³ CsI scintillation crystal with integrated Photomultiplier Tube (PMT)
Communication	D-tect SensorNet mesh network, USB
Power	Lithium Ion Battery (Rechargeable)
Battery Life	130 hrs (depending on options selected)
Detection Speed	1 second
Energy Range	50 keV - 3 MeV
Dose Rate Range	1 μ rem/hr - 70 mrem/hr (0.01 μ Sv - 0.7 mSv/hr)
Dose Rate Response (¹³⁷Cs)	Less than 20%
Sensitivity (¹³⁷Cs)	1.93 cps/ μ rem/hr (193 cps/ μ Sv/hr)
Dimensions	62 mm x 31 mm x 107 mm (2.44" x 1.22" x 4.21")
Weight	172.9 g (6.1 oz)
Environment	IP65 rated
Temperature Range	-20 to 50 °C
Units	(μ - m)rem/hr, (n - m)Sv/hr, CPS
Regulatory	FCC and CE Compliant Designed to meet ANSI 42.32 and 42.33



Remote Monitoring

There are two options for monitoring a network of MiniRad-DX and Rad-DX units: The PC-based DX-View runs locally and the internet-based DX-Dashboard which can be used on PCs, Apple and Android smart phones and tablets to monitor the network anywhere there is internet accessibility.

DX-Dashboard can also be configured behind a firewall to support secure closed networks with no access to the internet.