

## D3M

The ultra-low false alarm rate  
personal radiation detector

A high-performance combined gamma-neutron,  
Personal Radiation Detector that protects against  
the exposure to nuclear materials.

Field proven design, the handheld D3M is easy to  
navigate and simple to understand and provides  
confirmation of exposure to threats.



# D3M

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The D3M is a combined gamma-neutron Personal Radiation Detector (PRD) with superior sensitivity. It continuously scans and monitors the environment for radiological threats and alerts the user when it detects a gamma and/or neutron radioactive source.



# D3M

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This rapid-response handheld PRD display screen shows:

- Dose rate
- Accumulated dose
- Dose alarms
- Gamma alarm
- Neutron alarm

# Applications

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- Law Enforcement
- Fire Departments
- Customs and Border Patrol
- Military and civil defence
- Public security and event monitoring
- Nuclear industry



Knowing  
what you  
are up  
against can  
save your  
life

## Detect Shielded Threats

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The addition of a powerful neutron detector improves detection of shielded fissile or Special Nuclear Material (SNM) when compared to gamma only PRDs.



## Better Detection

The D3M is a powerful combination of two of Kromek's award-winning leading technologies; the non-<sup>3</sup>He compact thermal neutron detector and its world leading gamma detector.

The D3M offers superior sensitivity at 500 cps/( $\mu$ Sv/h) for Cs-137 and has a maximum dose rate of 1 Sv/h @ 662keV.

The enhanced detector volume together with the higher sensitivity means that it is better able to detect threats faster than standard PRDs and with minimal false alarms.

## Dose Data Analysis

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The D3M can be connected to a computer via USB or Bluetooth for data extraction using Kromek's CIRIS software. Internal memory within the D3M detector means a snapshot of spectral data can be saved every second if this mode is enabled.

The data can also be used for dose reconstruction, showing dose over time and accumulated dose.

## Ultra-Low False Alarm Rate

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The D3M also comes with an industry-leading ultra-low false alarm rate; more than six times better than the ANSI standard which means less time wasted with nuisance false alarms that can occur with some basic PRDs. It also means the operator is more able to trust the information the device is giving them because when you get an alert it is more likely to be the real thing.

When there is an alarm, the D3M alerts the user via a combination of audible, visible and vibration alarms.





Discreet,  
lightweight  
and  
wearable

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*The D3M continually scans for threats while you get on with the job in hand*

## Networkable

The D3M is also compatible with DARPA's SIGMA Network when paired with a specialised app on an Android phone. Using SIGMA's web-based user interface, multiple units can be easily tracked displaying any threats in real-time in multiple locations on a map of a specific area from a remote and centralised location by trained experts in radionuclide identification.



*Automated detection and ID with web-based command and control system*

## Accessories

Ruggedized event cases provide more than just storage and protection for the D3M and charger units, they also enables rapid deployment.

Charging stations simplify the electrical power logistics of charging a fleet of devices from a control point.



*Standalone charger stations are available for operating from a central control point*



*Ruggedized go anywhere event case that enables rapid deployment*



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