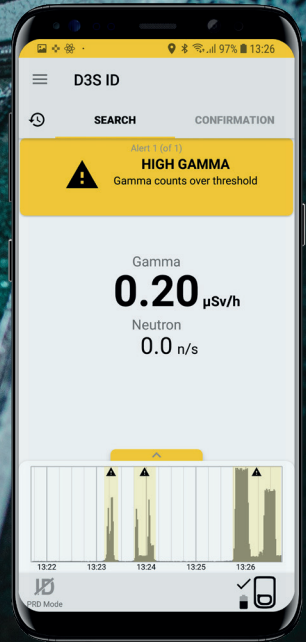


# D3S

The power to make the  
right decisions about  
nuclear threats in seconds



# D3S ID

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D3S ID is Kromek's high-performance complete radiation detection system for CBRN professionals that enables safe monitoring and identification in high-dose environments



# D3S

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- The most complete radiation detection solution in a single device with two modes of operation: PRD and RIID - at the touch of a button
- D3S PRD - a high-speed PRD with instant gamma and neutron detection
- D3S ID - complete radiation detection system for CBRN professionals that enables instant isotope identification which can be sent directly for secondary adjudication
- Cost-effective radiation detection and preliminary identification for first-line users
- Far exceeds the RIID standard, identifies 22 extra isotopes, 4 times faster



## The Power to Perform

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D3S high-performance detectors are designed to fit your operational needs. They are game-changing devices that are revolutionising in-field isotope detection and identification.

Though radiation emergencies are rare, you need to be ready to act at any time. The D3S gives you the power to make informed decisions about nuclear threats in seconds.



# What do I get?

The D3S is a powerful combination of two of Kromek's leading technologies; the non-<sup>3</sup>He compact thermal neutron detector and its world leading gamma detector.

The detection algorithm provides substantial enhancements in the detection and identification of low activity shielded threats, masked threats and nuisance isotopes and has been extensively tested and characterised in multiple CWMD and DARPA programs.

You can use it discreetly. Once it's on, clip it on your belt or tuck it in your pocket. No one will realise you're using the D3S because it works via an Android smartphone app which transforms it into a highly capable detection device in seconds, either via Bluetooth or USB.

## Helping you to:



**Assess the situation**



**Manage the risk**



**Make informed decisions within seconds**



## Content includes:

- Manuals
- D3S
- Smartphone
- Chargers and wearable carry pouch



## Ready to act

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The D3S is one of the fastest and most accurate isotope ID devices on the market that will help you carry out wide area searches when used in conjunction with an Android smartphone.

The D3S is small but powerful, wearable and discreet. At just five inches tall it's smaller than your average smartphone. The ID App will easily detect even very low levels of radiation rapidly.

## What happens when it detects a threat?

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There is a three-second rolling average to detect and identify sources of radiation. As well as a rapid, visible, audible and tactile alarm settings. The D3S will classify and categorise industrial, medical, NORM and SNM isotopes, empowering you to take the appropriate action.

It is designed for in-field deployment, helping you monitor your immediate surroundings, always-on, always scanning in the background. Its 12-hour battery life means it keeps working your whole shift long.

It is available in two powerful versions: the PRD and ID.



# D3S PRD

The D3S PRD is a spectroscopic radiation detector designed for sensitive detection of radioactive and nuclear materials.

Small, lightweight and user-friendly, the D3S PRD is a continuous search device that can be worn by first responders as well as customs and border protection personnel to quickly and accurately detect, locate and intercept radiological threats. It is also small enough to be carried by event security personnel and law enforcement as part of their regular equipment.

There is a simple user interface with both visual and audio status updates and notifications. As well as providing continuous dose reading, the D3S PRD will detect and alarm if gamma or neutron sources are present.

This sensitive device has a low false alarm rate for wearable search and can perform preliminary identification in just seconds, allowing further screening and investigation to be done as needed.

When a threat is found, you'll be alerted to it because of its rapid, visible, audible and tactile alarm settings. With the D3S PRD you can assess the situation immediately and discreetly.

## Turn your PRD into a RIID at the touch of a button!

You can easily upgrade your D3S PRD to a D3S ID with a simple upgrade to your licence key to get full access to the most complete radiation detection solution in a single device with two modes of operation: PRD and RIID.

The upgrade enables you to switch back and forth between PRD and ID (RIID) modes at the press of a button, giving greater flexibility to meet challenges without having to carry any additional (heavier) equipment or call in specialist help.



**PRD**

**One detector  
One smartphone**

**RIID**

**Two modes of operation**



D3S ID is a powerful device with extended detection capabilities that enable safe monitoring in potentially high dose environments.

It is a complete RIID packaged in a single compact device the size of a smartphone yet has all the features needed by CBRN experts.

The D3S ID shares the same simple user interface of the PRD, with both visual and audio status updates and notifications. Results can be reported back discreetly and instantly using the 'Reachback Report' on the Android app. The D3S ID will also keep track of your detection and ID history.

Wearable hands-free use, faster than a conventional RIID, clear identification of isotopes and neutron source detection. Its high dose sensor capability enables detection of up to 1 Sv/h while its high sensitivity means it can rapidly identify low levels of radioactive material and possible shielded or concealed sources.

The device has a low false alarm rate for both wearable search and high sensitivity identification confirmation mode functions and the reachback feature allows instant sharing of data for efficient adjudication, making it the perfect all in one radiation detection system for CBRN professionals.

The D3S ID is discreet, wearable and a fraction of the price of other much larger RIIDs, meaning it's not only light on your belt, it's light on your budget.

## Performance

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- Demonstrated ability to identify weak threats masked by high-level background radiation
- Android app turns D3S into a highly capable RIID with high dose capability
  - Real-time ID with high accuracy (1 Hz update rate)
  - Discrimination between Medical, NORM, SNM, Industrial
  - Wearable, wide area search mode gives a low false alarm rate that exceeds the performance of current instruments for search
- Identification confirmation mode out performs the false alarm rate of conventional RIID instruments





**Kromek Group plc**

**UK** NETPark Thomas Wright Way Sedgefield County Durham TS21 3FD | +44 (0) 1740 626060

**USA** 143 Zehner School Road Zelienople PA 16063 | +1 724 352 5288

sales@kromek.com | www.kromek.com