

# Sodium Iodide Probe

When you need to collect  
spectroscopic data in low  
dose environments



# Nal Probe

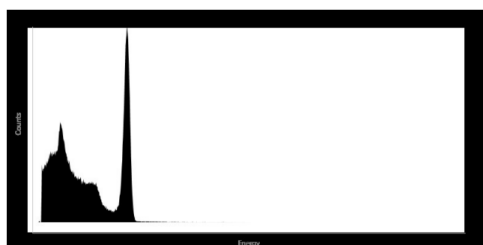
When you need to collect count data in low dose environments, simply plug Kromek's Nal Probe into either a RayMon, a PC running Kromek KSpec/MultiSpect analysis software, a Kromek Environmental system, or a custom application, and get started. The high sensitivity and efficiency of the 2" x 2" Sodium Iodide (Nal) crystal ensures even the weakest sources can be detected.

The incorporation of silicon photomultiplier technology gives the device its small form factor and makes the Nal Probe ideal for taking measurements in restrictive areas.

With a resolution of  $<7.5\%$  at 662 keV, the Nal Probe produces defined spectral peaks for reliable spectral analysis. Further confidence in the data and analysis is ensured with temperature compensation, ensuring a consistent performance throughout the operable temperature range. The smart probe stores calibration and all other relevant data on the device.

The probe also includes a high dose sensor to ensure measurements continue to be taken when the Nal probe becomes saturated with counts, offering reliable dose detection of up to 1 Sv/h.

The Nal probe is powered via USB and can be directly connected to a PC/laptop or a custom system. It is compatible with Kromek's MultiSpect Analysis and other softwares. Calibration data is also stored directly on the probe.



*The Nal Probe produces defined spectral peaks for reliable spectral analysis*



*The highly sensitive Nal probe can be paired with our ruggedised RayMon, and swapped in and out with the detachable, high resolution CZT probe.*

*The result is a versatile toolkit, flexible in its application, and optimal for everyday use within a range of civil nuclear applications, such as health physics.*

# Specification

|                             |                                      |
|-----------------------------|--------------------------------------|
| Detector Crystal            | NaI                                  |
| Detector Size               | 2" x 2"                              |
| Probe Dimensions            | 250mm x 69mm                         |
| Probe Weight                | 685g                                 |
| Resolution                  | <7.5% at room temperature at 662 keV |
| Energy Range                | 30keV to 3 MeV                       |
| Operating Temperature       | -20 °C to 50 °C                      |
| Connection to other devices | Via USB                              |
| High Dose Range             | Up to 1 Sv/h                         |
| IP Rating                   | IP65                                 |
| Power Consumption           | 0.5 W                                |

# Key Features:

- 2"x2" Sodium Iodide crystal
- Quick large-area data capture
- High sensitivity
- Small form factor for easy data collection in tight spots
- Temperature compensation
- Resolution of <7.5% at 662 keV
- Energy calibrations retained on the probe
- Dose and counts measurements
- Smart Probe: calibration and detector information stored directly on the device



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