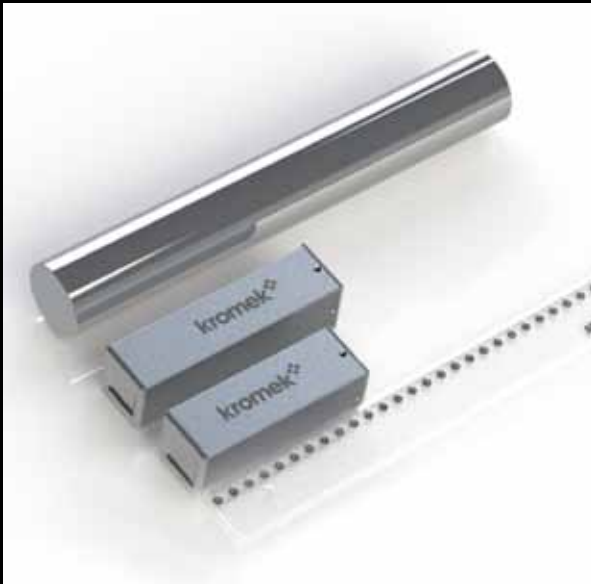


SIGMA™



How Kromek's SIGMA™ compares to other integrated scintillator detectors



Typical Applications:

- Radiation Safety
- Health Physics
- Industrial and Medical
- Homeland Security
- Research Laboratories

kromek™
detect image identify

Introducing Kromek's new generation of scintillator products

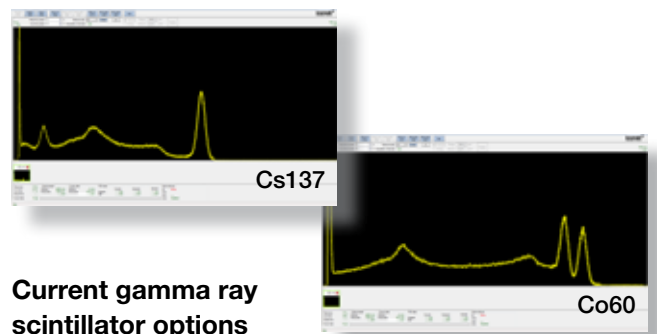
Kromek's next generation of scintillator products replace conventional photomultiplier technology with state of the art silicon photomultipliers (SiPMs). These gamma-ray detectors offer up to 32.8 cm³ of detection volume, delivered in a package providing significant benefits in cost, size, weight, power consumption and temperature stability.

Kromek's SIGMA™ product range interfaces directly with the existing MultiSpect Analysis™ platform providing all the analysis benefits currently enjoyed by users of Kromek's CZT detector product.

As with the CZT technology, Kromek's SIGMA probes will be available for the RayMon™ platform allowing the user to seamlessly switch between detection needs for both search and detailed analysis.

SIGMA technology will also be available in the RadGrid™ network detector family allowing customers to choose between a range of sensitivity and resolution options to best meet their measurement needs.

Other products exploiting the SIGMA™ technology platform in quantitative analysis for food and decommissioning assay will follow.



Current gamma ray scintillator options

Model	Case size (mm)	Crystal size (mm)	Volume cm ³	Resolution (%@Cs137)	Weight (g)
SIGMA50	35x35x130	25.4x25.4x51	32.8	<7.2	300
SIGMA25	35x35x105	25.4x25.4x25.4	16.4	<7.2	200

USB powered 250 mW

Specifications

Detector	SIGMA50 1" x 1" x 2" CsI(Tl) Detector SIGMA25 1" x 1" x 1" CsI(Tl) Detector
Energy Range	50 keV – 1.5 MeV
Maximum throughput	5,000 cps
Energy resolution	< 7.2 % FWHM @ 662 keV (21°C operation)
Number of Channels	4096 (12 bit)
Power consumption	250 mW
Dimensions	34.5 mm x 34.5 mm x 130 mm
Weight	300g
Operational temperature range	-10 to 40°C



Nuclear
detection



Medical
imaging



Security
screening

detect image identify