

Alpha Beta Probe Specification

Kromek's Alpha Beta Probe is part of our interchangeable probe collection, designed to easily slot into a range of our detection solutions.

Its small size and lightweight build means the probe can be used for extended amounts of time in one hand for wide area scanning and searching for contamination. Operating as a smart probe, it is possible to store detector and calibration information directly on the probe.

For nuclear security applications, the Alpha Beta probe can be paired with our medium resolution D5 RIID. Alpha Beta reads are automatically collected and displayed on screen in both Search (wide area scanning) and Timer mode (amount of counts recorded for a set duration). Settings for alarm thresholds, Total and Net count are user adjustable.

Detection Capability	Alpha and beta
Device Size	154 x 85 x 40 mm
Detector Weight	135 g
Connection to other Device	Via USB
Detector Material	ZnS(Ag)+plastic scintillator
Detector Material Size	Ø51 x 0.25 mm
Entrance Window	Light-tight double aluminized mylar 0.9 mg/cm ²
Protection	72 % transmission stainless steel grid
Noise	< 50 keV (betas) @ 22°C
Discrimination	Pulse-Shape Discrimination
Power Requirements	Via USB (3 mA)
Detector Housing dimensions (H x W x D)	155mm x 60mm x 40mm
Probe Weight	205g

The Alpha Beta probe is the latest addition to our portfolio. We now offer a complete solution across Gamma, Neutron, Alpha and Beta detection.

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