

**High Sensitivity
and
Ultra-compact**



**TN15™
Thermal Neutron
Scintillation Detector**

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TN15™ High Sensitivity Ultra-compact Thermal Neutron Scintillation Detector

The TN15™ high sensitivity thermal neutron detector utilizes a state-of-the-art Silicon photomultiplier (SiPM) and offers world-leading specification in a compact form. The TN15™ surpasses the performance of a 100mm long 13mm ³He tube at 4 atmospheres.

This highly compact device is completely self-contained, with a built-in preamplifier, shaping amplifier, pulse discrimination, and HV supply. The digitized neutron data is sent to a PC via the mini-USB which also powers the unit, so no external power supply is required.

The TN15™ comes with K-Spect™, Kromek's entry-level Windows-based (XP/Vista/7/8) software, built for detailed sample and spectral analysis. K-Spect™, which is available to download, free of charge, from the Kromek website, provides the spectrum acquisition, display, analysis, and storage functions.

The software can be upgraded to Kromek's top-of-the-range MultiSpect Analysis™ software, a unique application that allows connection of multiple detectors to a PC, and has the ability to display multiple spectra; both live and saved, from previous measurements.

In addition to providing the spectrum acquisition, display and storage functions, MultiSpect Analysis™ allows the export of data for further analysis as well as matching spectra to a pre-loaded library of over 400 radionuclides.



Main Features:

- High efficiency
- Excellent gamma rejection
- Compact
- Simple to use
- USB Powered
- Low power consumption

Specifications:

Equivalent to 100mm x 13mm Ø ³He at 4 atmospheres

Photo-sensor	SiPM array
Thermal Neutron Sensitivity	>50%
Maximum throughput	10,000 cps
Power consumption	250 mW
Dimensions	131mm x 33mm x 24mm
Weight	110 gram
Temperature range	-10 to 40°C



Nuclear
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