

Portable X-Gamma Radiation Detector

This portable detector accurately measures X-gamma radiation levels. It features timing X-gamma spectra measurement to recognize nuclide and quantitative calculation of radionuclide content, as supplying dose rate.



ADDITIONAL IMAGES



Overview

Portable X-Gamma Radiation Detection

This portable X-Gamma radiation detector is a high-precision instrument designed for comprehensive radiation analysis and environmental monitoring. It utilizes advanced crystal detection technology to provide reliable quantitative analysis of radionuclides and accurate dose rate measurements. Built for durability and ease of use, it is an essential tool for geological prospecting, industrial safety, and environmental assessment.

Key Performance Metrics

Measurement Range

9999 ~~μ~~/h
Dose Rate Range

9999 ³
Gamma Range

Sensitive Thresholds

350 cps/~~μ~~/h

Technical Specifications

Detector Type	30mm x 30mm NaI(Tl) crystal
Energy Range	< 4 Mev
Detector Resolution	> 8%
Accuracy	±10% (deviation between measured and calculated)
Stability Error	d±7% (8hour operation)

Physical Characteristics

Dimensions	360mm x 90mm x 220mm
Weight	2 kg

Operating Environment

Working Conditions

Parameter	Range
Temperature	-10 to +50
Relative Humidity	< 95%

Applications

Primary Applications

- X-gamma radiation total amount measurement
- U, Th, K quantitative analysis
- Radionuclide recognition
- Environmental and building material radiation detection
- Underground water search and density determination
- Uranium, thorium, and kalium prospecting
- Large area gamma abnormality census