

Scintillation Detectors and accessories



Application

Scintillation detectors are applicable in many areas:

- radiation monitoring,
- radiation logging in boreholes,
- scintillation spectrometry,
- detection of alpha- and beta-radiation,
- tomography,
- high-energy physics
- and many others.

Features

Almost any scintillation detector can be ordered in All-in-One assembly with inbuilt MCA to have high IP rate for better protection from environmental influence. There us a list of available detector materials available: NaI(Tl), CeBr3, LaBr3 and others of different sizes and shapes, including well-type.



ACCESSORIES

- Spectrum stabilization by using Am or LED source
- Digital MCA MCABase
- Analytica software package
- Holders and tripods
- Lead shielding for low background measurements
- Protective cases for underwater applications
- Cable set
- Documentation set

DESCRIPTION


Scintillation detectors are used to register and analyze gamma-radiation in energy range from 20 keV to 3 MeV when irradiated with a radioactive source. The detector consists of scintillator crystal optically connected to a photomultiplier tube, wrapped in an antimagnetic screen and placed in a sealed aluminum case. Depending on customer requirements, scintillation detectors can be based on different crystal materials, such as NaI (Tl), CeBr3, LaBr3, SrI or others.

SPECIFICATION

Material	Dimensions*, mm	Energy resolution at 662 keV, %	Energy range	Registration efficiency**, %	Advantages
NaI(Tl)	51x51	<7	20 keV - 3 MeV	0.65	Low price
	63x63	<7.5		1.2	
	76x76	<8		2	
	150x100	<12		7.5	
LaBr3(Ce)	51x51	<3.1	20 keV - 3 MeV	1	High resolution
	63x63	<3.3		1.5	
	76x76	<3.5		2.5	
	25x25	<4.2	20 keV - 3	0.14	High resolution, Low

CeBr3	38x38 51x51	<4.3 <4.3	MeV	0.4 1	background and MDA
Sr12	25x25 38x38	<2.8 <2.9	20 keV - 3 MeV	0.14 0.4	Low background and MDA
* - dimensions for reference only. Choice is not limited to the list.					
** - at 662 keV by a point-like Cs-137 source at a distance of 5 cm from the detector's top					

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