

SiPM Energy Spectrum Detector

ECB-D25H25SIPM01

1.Product introduction

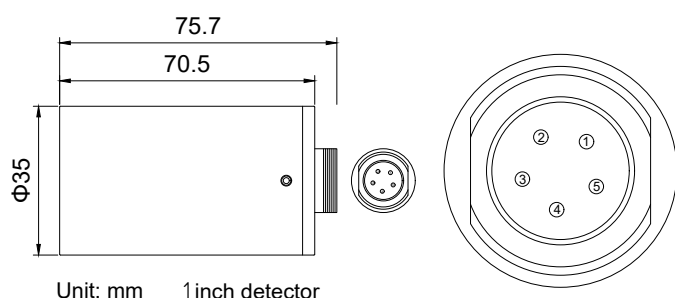


The ECB-D25H25SIPM01 spectroscopic detector is a highly integrated detector containing a 1-inch CeBr₃, silicon photomultiplier (SiPM), summing circuit, preamplifier circuit, and temperature measurement circuit. It features excellent energy resolution, simple operation, compact size, and high reliability. It is widely used in industrial detection, radiological medicine, radiation detection, and other fields.

2.Performance parameter

Parameters	value	Unit
Scintillator type	CeBr ₃	--
Scintillator size	Φ25×25	mm
SiPM size	6×6	mm
Input voltage	+25.5~+29.5	V
Temperature measuring range	-40~+150	
Output signal pole type	Positive polarity	/
Energy resolution(¹³⁷ Cs)	≤4.5%	--
Working temperature and humidity	+5~+45	

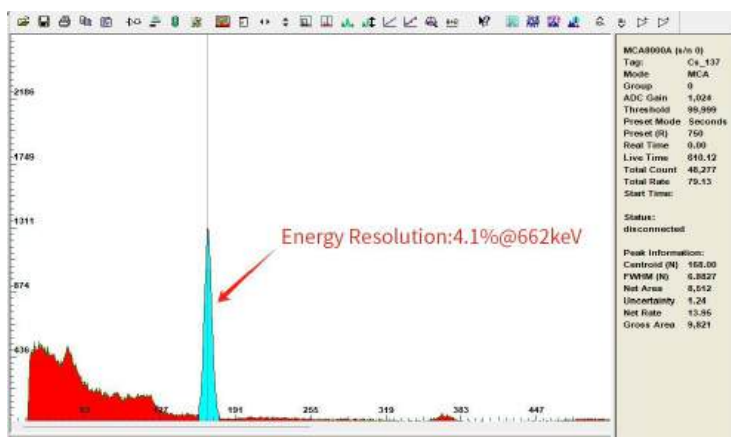
3.External dimensions diagram



Interface Definition

① Ground	② Power supply (+25.5V~+29.5V)
③ Signal output	④ Signal ground
⑤ Temperature linear output (+0.1V~+2V) / (-40 ~150)	

4.Energy Resolution Test / WaveformTest



● The bias is set to 29.3V, energy resolution is 4.1% @662keV



● Input impedance of oscilloscope is 1MΩ