

1. Product introduction

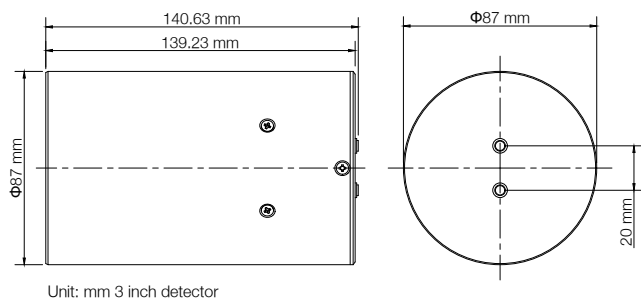


ECSINA-D76H76SIPM01: This detector features a highly integrated design, meticulously combining a 3-inch CsI(Na) scintillation crystal, a 64-element 6mm×6mm SiPM array, and summing/preamplifier circuits into a single module. The core CsI(Na) crystal delivers exceptionally high light output, which, paired with the ultra-fast response speed of the SiPMs, grants the detector superior particle waveform discrimination capabilities. Thanks to its outstanding performance in capturing low-energy signals and distinguishing radiation types, the ECSINA-D76H76SIPM01 has become an ideal choice for dark matter detection, advanced nuclear physics experiments, and complex mixed-radiation field analysis, providing precise and reliable measurement solutions for cutting-edge scientific research.

2. Performance parameter

Parameters	value	Unit
Scintillator type	CsI(Na)	--
Scintillator size	Φ76×76	mm
SiPM Array	64 pcs ONSEMI J60035	/
Input voltage	5 to 12V DC	V
Output Signal Polarity	Positive Polarity	/
Energy Resolution(¹³⁷ Cs)	≤8.5%	--
Operating Temperature	-40 to +55	°C
~300mV@662keV	Maximum Signal 1.5V	V

3. External dimensions diagram

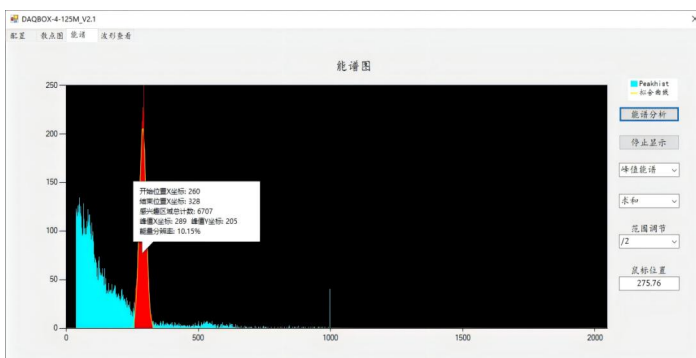


● Interface Definition

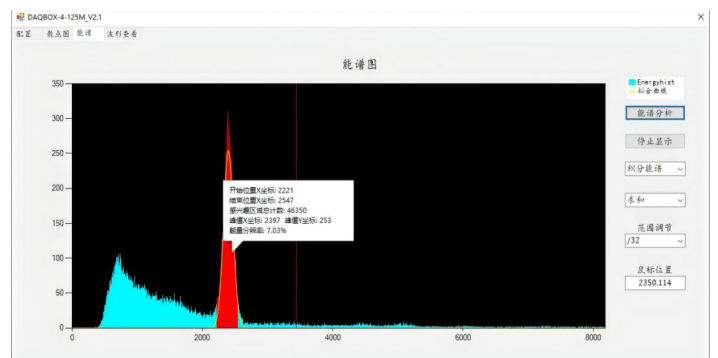


- 1 Signal: Purple-marked male MCX connector
- 2 Power Supply: Red-marked male MCX connector

4. Energy Spectrum



● Cs-137 energy spectrum(peak): 289mV@662keV



● Cs-137 energy spectrum(area): 7.03%@662keV