

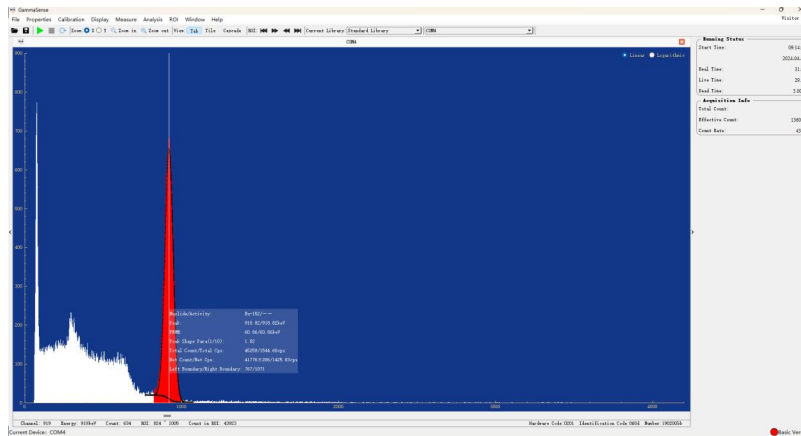
### 1. Product introduction



ESMCA-T01 miniature scintillator spectrometer is a product that uses SiPM coupled with crystal and combined with ASIC core pulse processing chip to shape a product that has significant advantages in terms of size and power consumption.

### 2. Functional indicators

- ▶ 1 ..... Standard detectors based on SiPM with a choice of detector types and sizes
- ▶ 2 ..... The detector is integrated with MCA
- ▶ 3 ..... Excellent energy resolution, comparable to photomultiplier systems
- ▶ 4 ..... Built-in low-power ASIC multi-channel: 1024, 2048, 4096 channels software adjustable
- ▶ 5 ..... Multi-channel parameters are flexibly adjustable, supporting gain and forming time adjustment
- ▶ 6 ..... Automatic spectrum stabilization without external reference source
- ▶ 7 ..... The small size and low power consumption allows it to be used for throwing or under a variety of light loads
- ▶ 8 ..... Nuclide identification and energy spectrum analysis can be added
- ▶ 9 ..... Equipped with free/paid version of spectral analysis software



### 3. Hardware Selection Chart

Model	Detector	Resolution(662keV)	Crystal size
ESMCA-NAID25H25	NaI(Tl)	≤7.5%	1 inch
ESMCA-NAID38H38	NaI(Tl)	≤7.5%	1.5 inch
ESMCA-NAID50H50	NaI(Tl)	≤7.5%	2 inch
ESMCA-LBCD25H25	LaBr <sub>3</sub> (Ce)	≤4%	1 inch
ESMCA-LBCD38H38	LaBr <sub>3</sub> (Ce)	≤4%	1.5 inch
ESMCA-LBCD50H50	LaBr <sub>3</sub> (Ce)	≤4%	2 inch
ESMCA-CBD25H25	CeBr <sub>3</sub>	≤5%	1 inch
ESMCA-CBD38H38	CeBr <sub>3</sub>	≤5%	1.5 inch
ESMCA-CBD50H50	CeBr <sub>3</sub>	≤5%	2 inch