

1. Overview



The CsI(Tl) single-point detector kit consists of a miniature CsI(Tl) crystal and a single SiPM, with power supply and signal output provided via red and black dual-color wires. Featuring a compact structure and ease of use, this kit offers excellent energy resolution. It is highly reliable and compatible with various types of measurement devices, making it widely applicable in fields such as nuclear medicine, industrial measurement and control, and environmental monitoring.

2. Key Features

- Crystal Type CsI(Tl) crystal
- Crystal Dimensions 3×3×3 mm, 6×6×6 mm, 10×10×10 mm, 10×10×30 mm, etc. (Other custom/non-standard dimensions are supported)
- SiPM Model Single 3 mm×3 mm or 6 mm×6 mm SiPM
- Input Voltage +25 ~ +31V
- Output Signal 1 channel of positive-polarity standard signal output
- Power Consumption Less than 50mW
- Wiring Black wire for power supply, Red wire for signal output

3. Standard Model Selection Guide

Product Model	CsI(Tl) Sizes (mm)	SiPM Model
ECS-3×3×3 mm-FC30035	3×3×3 mm	FC-30035
ECS-3×3×20 mm-FC30035	3×3×20 mm	FC-30035
ECS-6×6×6 mm-FC60035	6×6×6 mm	FC-60035
ECS-6×6×10 mm-FC60035	6×6×10 mm	FC-60035
ECS-7×7×30 mm-FC60035	7×7×30 mm	FC-60035
ECS-10×10×10 mm-FC60035	10×10×10 mm	FC-60035
ECS-10×10×15 mm-FC60035	10×10×15 mm	FC-60035
ECS-10×10×30 mm-FC60035	10×10×30 mm	FC-60035

In addition to the standard products listed above, we also offer customization services for other crystal dimensions and packaging formats.

4. Performance

The following data is based on actual measurements of the ECS-6×6×6 mm-FC60035 model:

- Test Conditions: ○ Radioactive Source: Cs-137 ○ Operating Bias Voltage: +29V ● Test Results: ○ Energy Resolution: 7.06% @ 662 keV

