Epic-Crystal
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上海烁杰晶体材料有限公司

# SiPM Energy Spectrum Detector

ECSITL-D76H76SIPM01

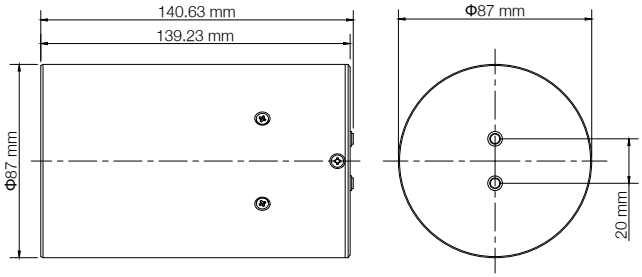
## 1.Product introduction

ECSITL-D76H76SIPM01: This detector also adopts a highly integrated design, seamlessly incorporating a 3-inch CsI(Tl) scintillation crystal, a 64-element 6mm×6mm SiPM array, and summing/preamplifier circuits within a compact module. The emission spectrum of the core CsI(Tl) crystal peaks at approximately 550 nm (green light), aligning perfectly with the peak spectral response of the SiPMs. This optimal wavelength matching results in extremely high photon collection efficiency, while also offering the benefits of low afterglow and robust durability. Leveraging these advantages, the ECSITL-D76H76SIPM01 is exceptionally well-suited for compact/portable radiation monitors, medical imaging, and industrial security inspection equipment, delivering stable and efficient measurement solutions for users.

## 2.Performance parameter

| Parameters | value | Unit |
|---|---|---|
| Scintillator type | CsI(Tl) | -- |
| 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 | ℃ |
| ~300mV@662keV | Maximum Signal 1.5V | V |

## 3.External dimensions diagram

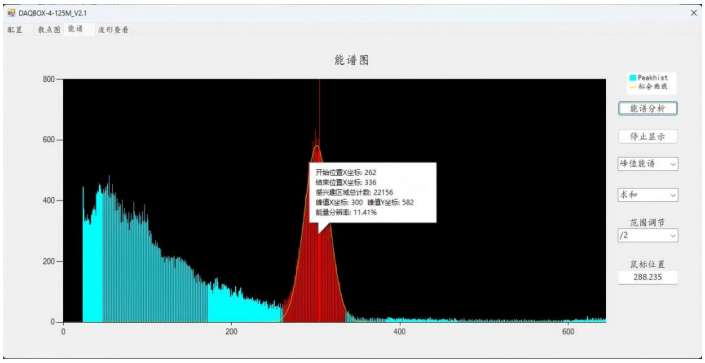



Unit: mm 3 inch detector

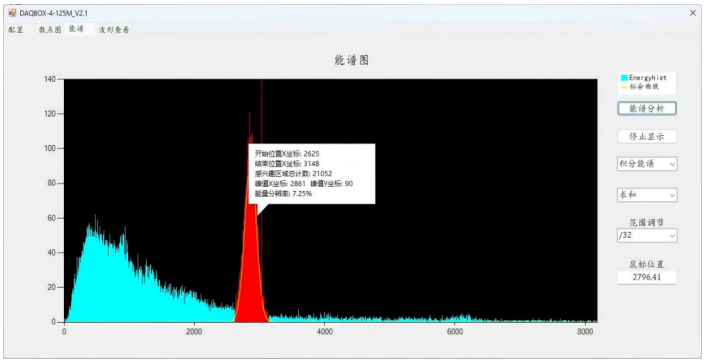
### Interface Definition


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

## 4.Energy Spectrum




● Detector 2 Peak Spectrum: 300mV @ 662 keV




● Detector 2 Integral Spectrum: 7.25% @ 662 keV

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