

# Scintillation Probe SC-MegaPixel-MCA



**Scintillation Probe SC-MegaPixel-MCA**

## Benefits

- Excellent energy resolution – 6% at 122 keV, 3.2% at 662 keV and 2% at 1333 keV
- High sensitivity – 40 cc of ScintiClear (SrI<sub>2</sub>(Eu)) scintillator
- Ultra compact design
- Fully solid state detector not sensitive to magnetic field
- IP67 dust proof and water resistant
- Operating temperature: -20 to 50°C
- Temperature stabilization and pulse pile-up rejection

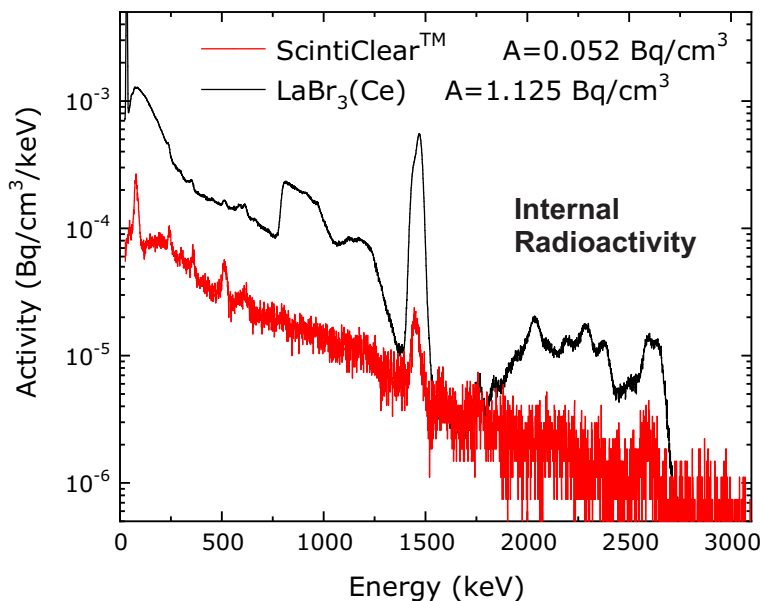


## Description

Ultra-lightweight and compact **SC-MegaPixel-MCA** Scintillation Gamma Radiation Detection Probe with 28x28x50.8 mm (40 cc) high-performance ScintiClear SrI<sub>2</sub>(Eu) crystal coupled to SiPM array and read by tiny USB MCA. High energy resolution ScintiClear sensor with on the chip temperature stabilization and pulse pile-up rejection, as well as rugged watertight IP67 housing, makes SC-MacroPixel-MCA perfectly suited for field or lab applications. A user-friendly GUI for Windows and Android devices is included with the detector.

## Specifications

Detector type	SrI <sub>2</sub> (Eu)
Detector size	28x28x50.8 mm
Energy range	10 – 4000 keV
Maximum count rate, cps	25000
Typical resolution	3.2% at 662 keV
Typical sensitivity to gamma radiation, cps/(μSv·h <sup>-1</sup> )	780 ( <sup>137</sup> Cs) 600 ( <sup>60</sup> Co)
Protection class	IP67
Interface	Micro USB Type B
Operation temperature	-20°C to +50°C
Dimensions	31x31x95 mm
Weight	210 g

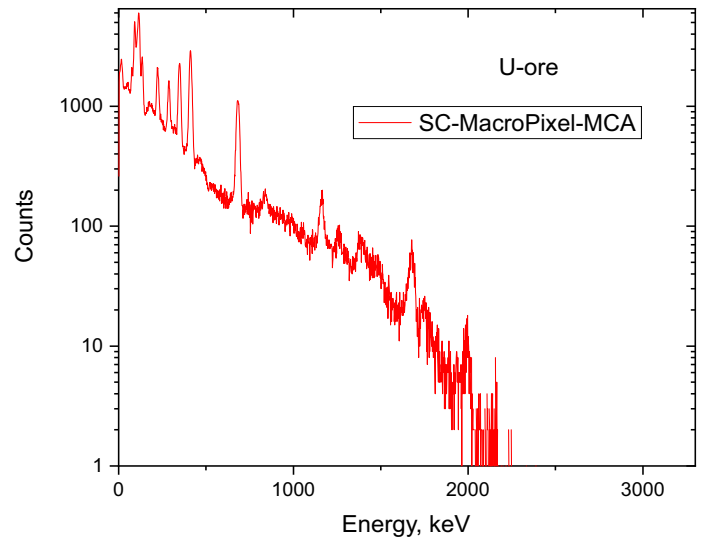
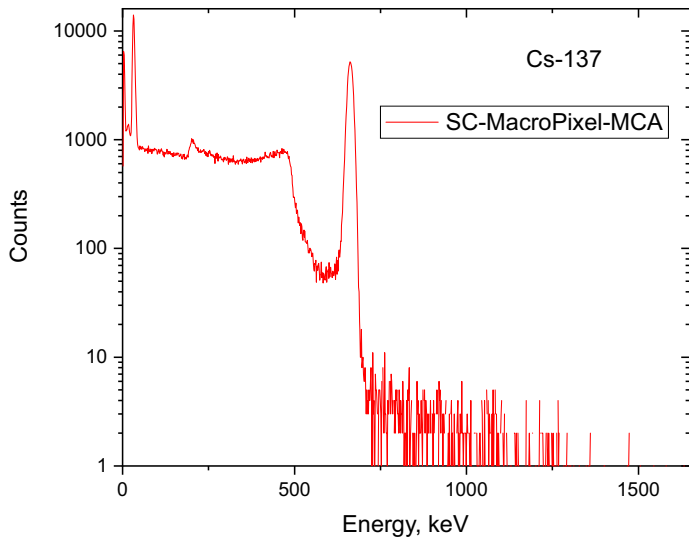
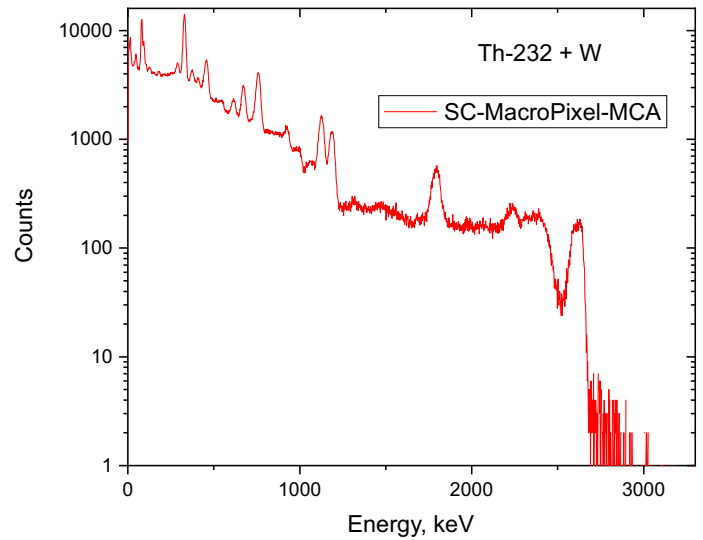
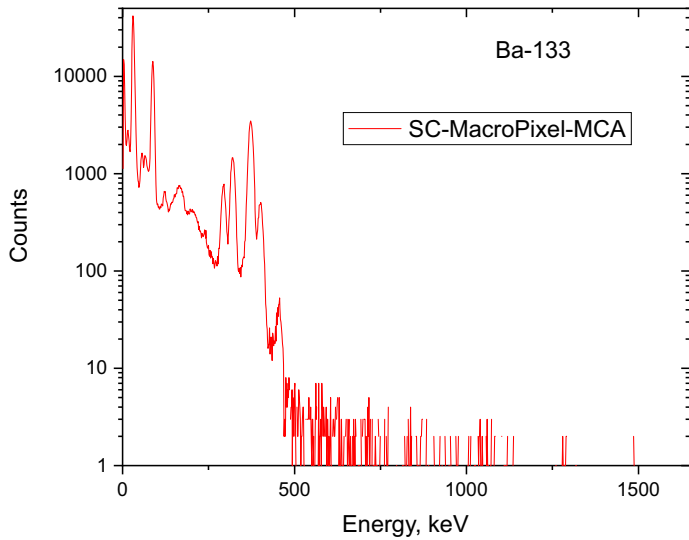
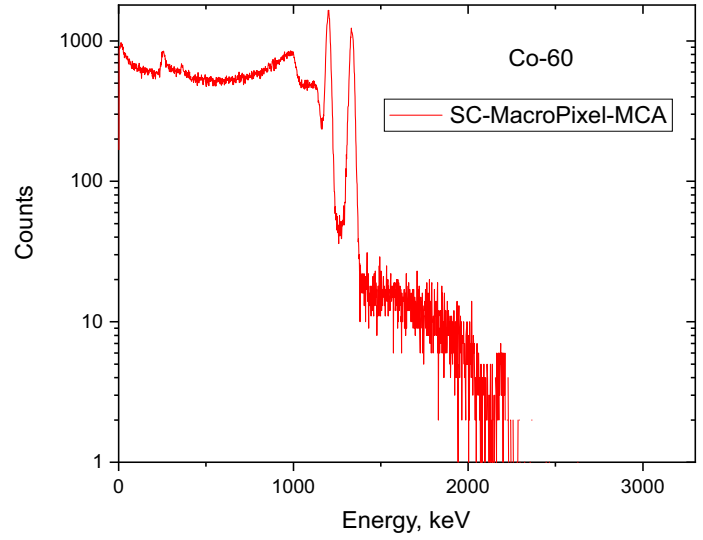
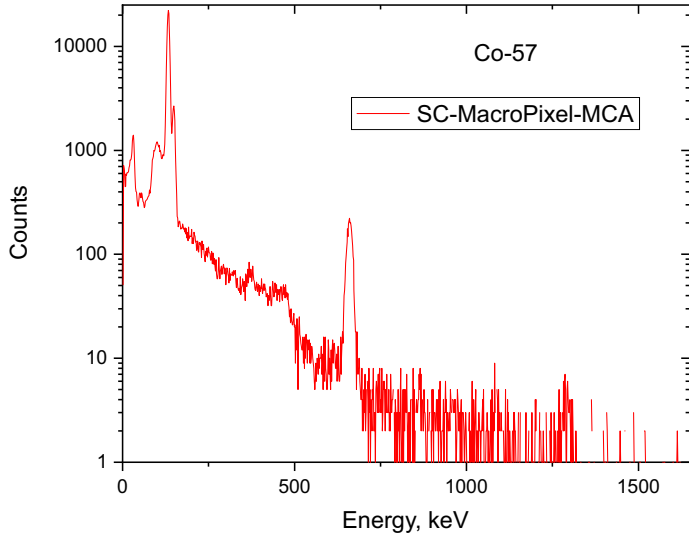


Because Strontium Iodide has a naturally stable isotopic composition, ScintiClear crystals enjoy the lowest intrinsic activity among high energy resolution scintillators available on the market. When compared to LaBr<sub>3</sub>(Ce) intrinsic activity of ScintiClear is up to forty times smaller.

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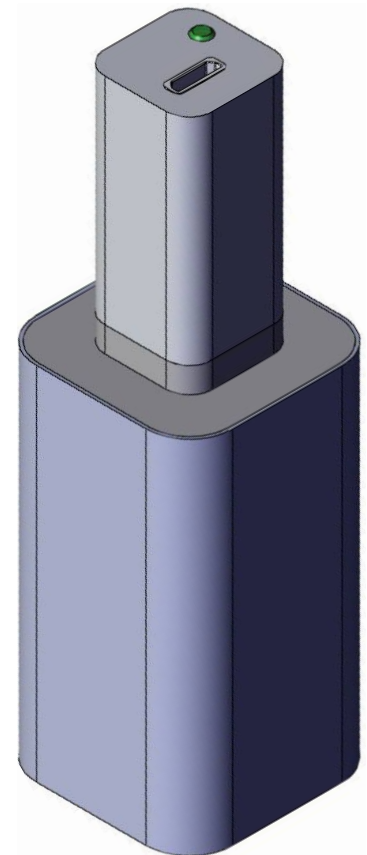
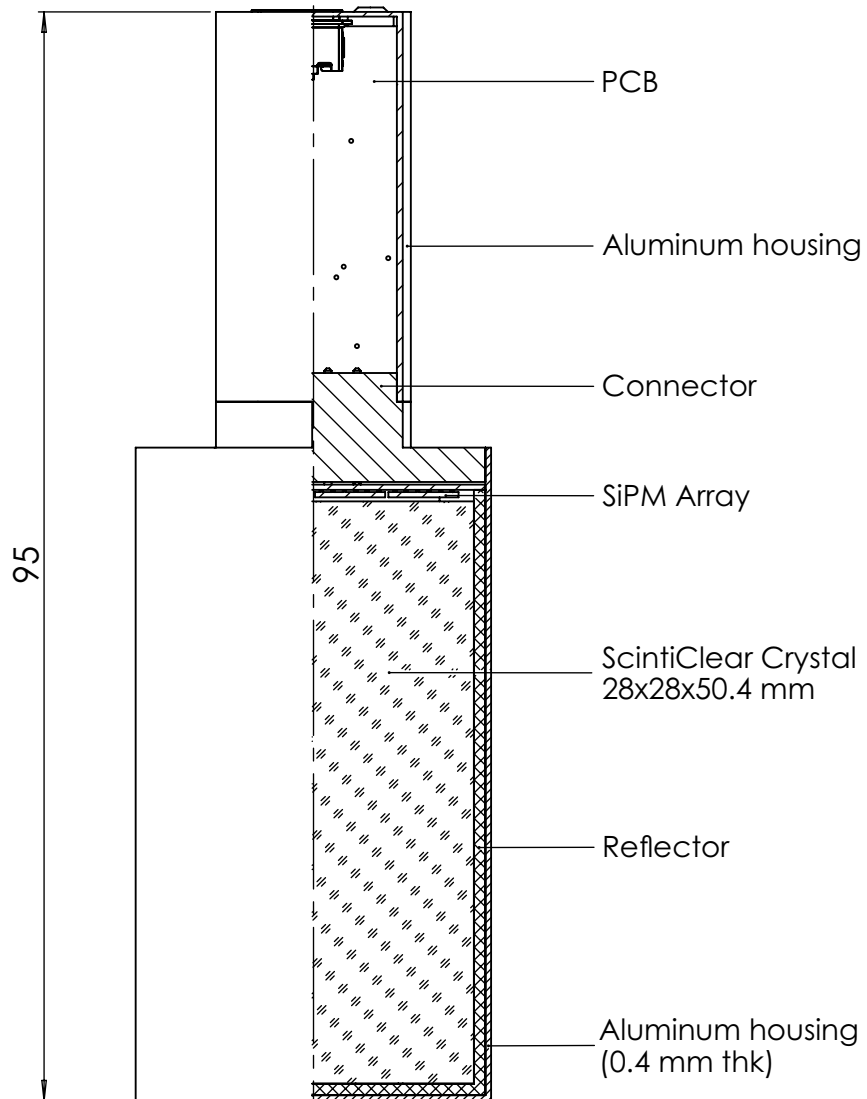
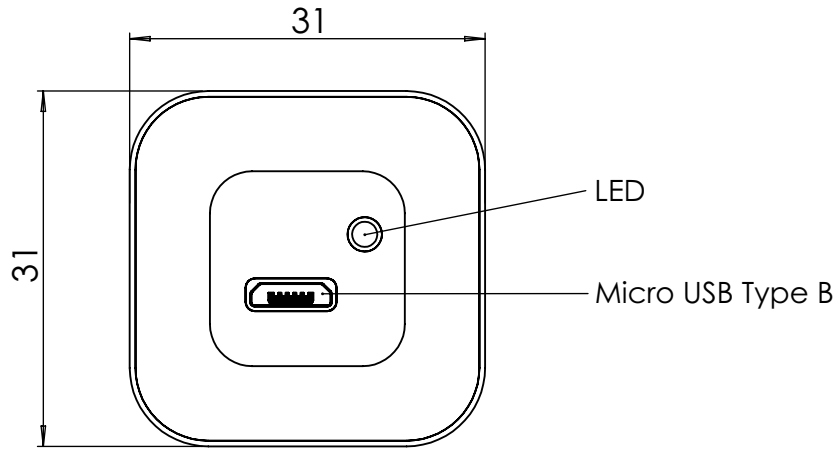
Unambiguous Identification with ScintiClear  
(All spectra taken with SC-MacroPixel-MCA Scintillation Probe)



# Scintillation Probe SC-MegaPixel-MCA



## 2D drawing

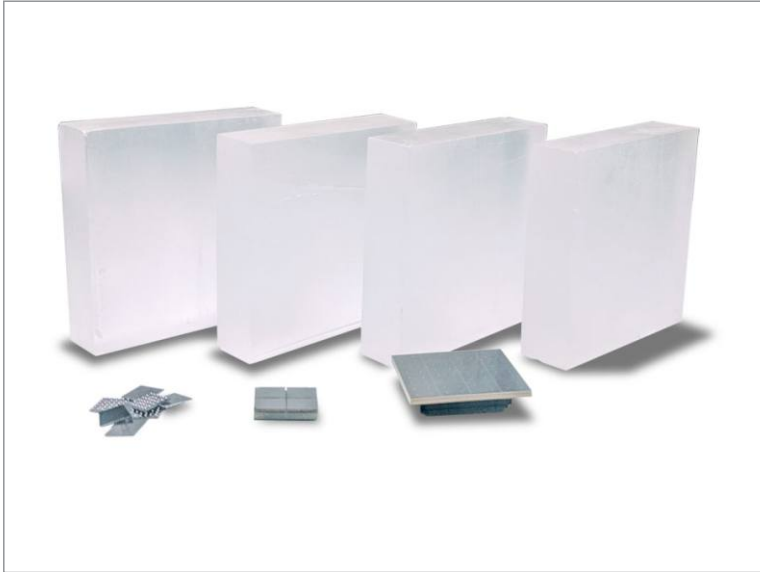




### About CapeScint

CapeScint is a subsidiary of CapeSym, Inc. a multi-faceted company with 100+ years of combined experience in scintillators, semiconductors, and radiation detection instruments. CapeScint has its warehouse facilities and customer support staff located in Greater Boston Area, Massachusetts, USA.

Founded in 1992 as Cape Simulations, CapeSym, Inc. is now a multi-faceted company offering novel technical crystals and detectors for nuclear detection, including ScintiClear<sup>TM</sup> SrI<sub>2</sub>(Eu) and Elpasolight<sup>TM</sup> CLYC(Ce) scintillators. In addition, CapeSym offers radiation detection instruments and equipment through [www.zievert.com](http://www.zievert.com).



Our ongoing R&D leverages decades of experience in crystal growth, solid state physics, analytical chemistry, materials science, thermo-fluid transport, and engineering design. CapeScint as a subsidiary of CapeSym, Inc. has a long history working with the US Government as a contractor and as a supplier of essential goods and services. During the last 30 years CapeSym, Inc. and supported missions of multiple US Government agencies including NASA, MDA, USAF, DoE, DTRA, NIH, CWMD, and US Navy.



*Design and specifications are subject to change without notice*