



Capture® Plus

CdZnTe Based, Room Temperature, High Resolution Radiation Detector

The CAPture® Plus is an ideal Gamma-ray Spectrometer for portable instrumentation. The standard CdZnTe size is 10mm x 10mm x 5mm and packaged in a 15mm x 15mm x 15mm housing. The CAPture® Plus is designed for easy installation into a low power, portable Isotope Identification Systems- Spectroscopic Personal Radiation Detectors (SPRDs).

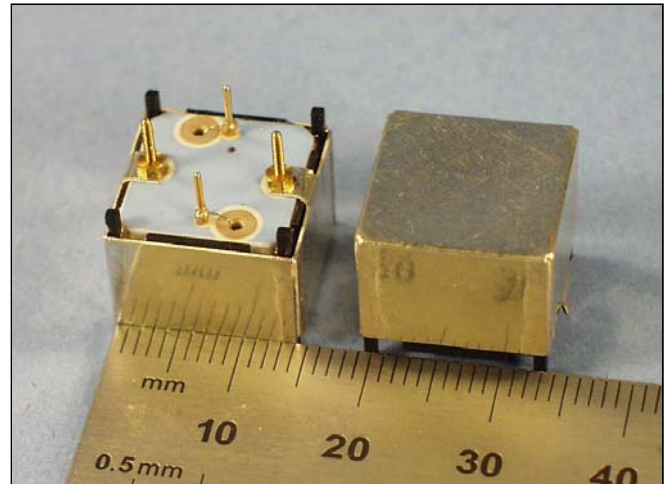
The CAPture Plus CZT detector is a very compact, efficient, high resolution CZT detector – ideal for portable instrumentation or laboratory experiments.

The CAPture Plus detector is designed to be a workhorse for Portable Handheld Isotope Identification systems. The CAPture® Plus detector is packaged in a rugged shock resistant package.

The CAPture Plus is a flexible solution. It can be either AC or DC coupled and operates with either + or – HV supply.

eV Microelectronics offers the CAPture Plus detector in a complete plug and play solution called the iGEM™ Spectroscopy System.

The CAPture Plus detector can be provided with a low power miniature Gamma Spectroscopy sensor engine. Please contact eV Microelectronics to learn more about the iGEM Sensor Module - designed to go inside wireless, portable sensor platforms.



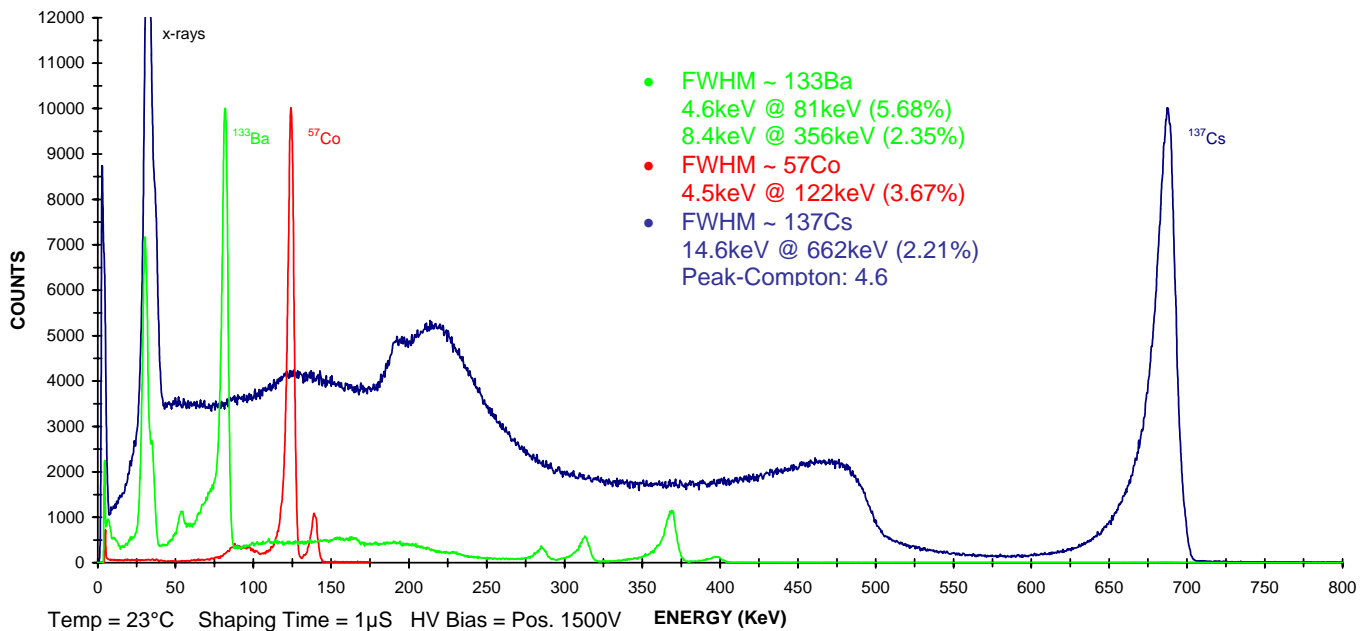
Applications

- Homeland Security
- Remote Portable Sensors
- Isotope Identification
- Lab based Gamma-ray Spectroscopy
- Health Physics
- Medical Diagnostics

Features

- Small Size
- Excellent Energy Resolution
- Robust Package
- Low Power

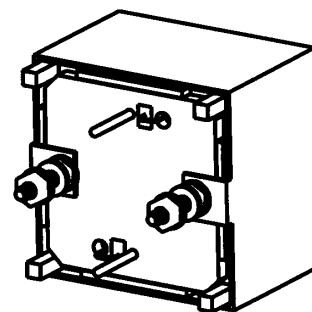
CAPture® Plus CdZnTe Detector
(10mm x 10mm x 5mm)



Specifications

- CdZnTe Detector Crystal Dimensions
 - 10x10x5mm³ with CAPture® Plus contacts
- Measurement Capabilities
 - Energy Range: 30keV to 1.3MeV
 - Energy Resolution:
 - <5% FWHM @ 122keV
 - <3.0% @ 662keV
- Operating Temperature Range
 - -10° to +35° C Standard
- CAPture® Plus Standard Housing Dimensions
 - 14.8mm x 14.8mm x 14.61mm
- CAPture® Plus Detector Input Requirements
 - +/- 1500V Nominal
- CAPture® Plus Detector Capacitance
 - 2pf

A=Anode
C=Cathode
Mating Connectors=MILLMAX
#1401-0-15--01-30-27-10-0



CAPture® Plus standard detector housing assembly