



Custom Integrable Detector Module

Specifications

Dimensions:	6.9 in x 2.0 in x 2.0 in (17.5 cm x 5.2 cm x 5.2 cm)
Weight:	1.5 lbs (0.7 kg)
Battery:	Optional add-on box with customizable lifetime
Power Input:	12 V, 13-30 W depending on temperature
Startup & Operating Temp.:	-30° C to 50° C (-22° F to 122° F)
Storage Temperature:	-30° C to 60° C (-22° F to 140° F)
Ingress Protection:	IP67
System Cooling:	Proprietary external heat sink and removable fan
Startup Time:	2 min at 23° C (73° F)
Energy Resolution:	≤1.1% FWHM at 662 keV
Sensitivity:	Detects 10- μ Ci ¹³⁷ Cs at 1 m (~3 μ R/hr) in < 22 s (in natural background; with >19 cm ³ volume)
Energy Range:	50 keV to 3 MeV
Crystal Volume:	>4.5 cm ³ to >19 cm ³ CZT (CdZnTe)
Detector Pixels:	121 to 484
Spatial Resolution:	<0.5 mm (\geq 140 keV)
Count-Rate Limit:	0.5 rem/hr (5 mSv/hr) bare- ¹³⁷ Cs equivalent
Communication Options:	Peer-to-peer Wifi or Bluetooth TCP/IP over Ethernet RJ45 port TCP/IP over USB 2.0 port Other RF interfaces available
Data API Options:	Real-time spectrum Event total energy and time stamp Each interaction's energy, 3D position, time stamp
Warranty:	2-year manufacturer-defect warranty

Integrate H3D's detector module into your product. This box contains everything you need for high-resolution spectroscopy.

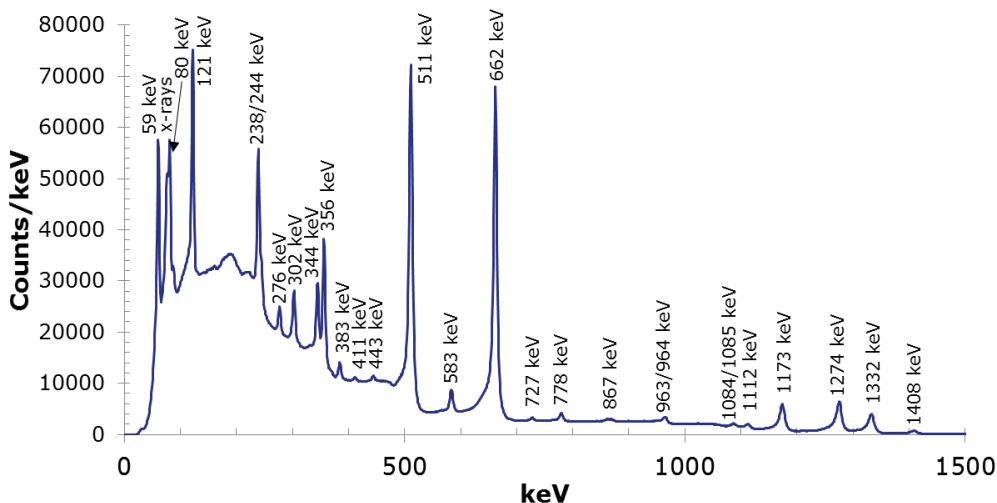
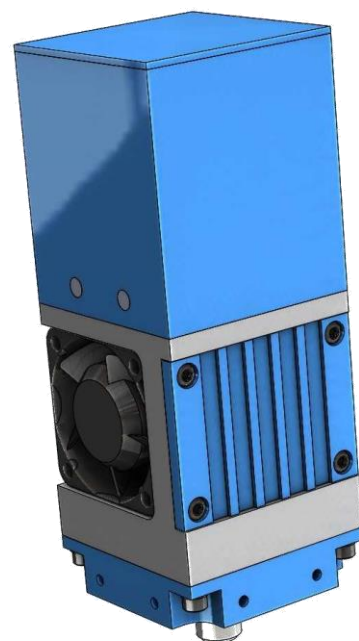
Perfect for integration with:

- Drones
- Robots
- Laboratory experiments
- Other sensor suites

Containing the most advanced room-temperature semiconductor technology to achieve spectroscopic performance competitive with cryogenically cooled detectors, the detector module has:

- Quick startup
- Compact and light-weight size
- Large operational temperature range

Contact H3D to discuss your application.



H3D, Inc. is committed to providing our customers with the highest performance and most user-friendly instruments possible. Our team has over 150 years of combined experience in CZT detectors and integration.

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