

# RAYSPEC

## SILICON DRIFT DETECTORS (SDDs)

Tailored to your requirements



### FULLY CUSTOMISABLE DESIGNS

- Linear or Circular
- Planar or Focused
- Customised Unique Geometries
- Tube Length, Linear Slides, Bellows, Gate Valves etc



### FOR ALL ENVIRONMENTS

- Air
- Vacuum
- UHV
- He Flush



### COOLING OPTIONS

- Passive Air Cooling
- Close Cycle Water Cooling



### PULSE PROCESSOR COMPATIBLE

- Compatible with most pulse processors available, including Quantum Detector's Xspress 3 and XIA's Flacon X.



### CHANNEL OPTIONS

- 1 to >19 Channels
- Independent channels for improved serviceability and no cross talk



### SENSOR OPTIONS

- Full range of window options  
Beryllium  
AP3.3  
Silicon Nitride  
Carbon  
Windowless
- Large range of sensor options:

Active Area	10 to 170mm <sup>2</sup>
Collimated Area	7 to 147mm <sup>2</sup>
SDD Thickness	450µm
Resolution	From 123eV Mn Ka
Peak to Background Ratio*	>15,000:1
Primary Amplification	FET, CUBE, ASIC
Cooling	Peltier Cooling

\* typical values



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