

## Spectroscopic Ion Chamber

A spectroscopic ionisation chamber detector has been developed for accurately monitoring the intensity of hard X-ray beam for Synchrotron facilities around the world. This chamber is designed for use in experiments where accurate determination of beam intensity is important, such as x-ray spectroscopy. The active length of the chamber is 250mm and the chamber can accept beams up to 25mm wide and 10mm high. The chamber is constructed to high vacuum standard so that the chamber can be evacuated and filled with an appropriate gas mix and then sealed.

The chamber is equipped with integrated electronics for HT bias, signal amplification and read-out. Which repeatedly sample the chamber output at high rate to provide noise reduction by sample averaging.

### Benefits

- Accurate intensity measurement
- Compatible with common beam sizes
- Multisampling electronics
- Integrated electronics

### Specifications

Ionization Chamber:	1000cm <sup>3</sup> collecting volume;
Wall Materials:	Stainless Steel
Signal Connector:	USB or 10/100 ethernet output if used with integrated electronics
Signal Output:	0-10v dc or digitised
Leakage:	None.
Collection Efficiency:	Dependant on gas mix
Beam acceptance	25 x 10 mm
Overall Size	Length including connectors,