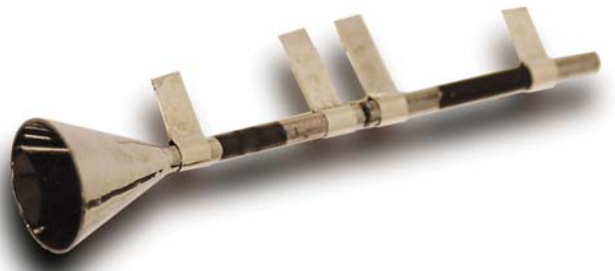


Portable Dynamic Detectors



Spiraltron™ Electron Multipliers

Photonis' Spiraltron™ series of products are miniature electron multipliers designed to deliver high performance at pressures up to 10^{-2} torr.

Our Spiraltron™ detectors are designed to facilitate low noise typically generated by ion feedback. A Spiraltron™ detector is a Channeltron® electron multiplier consisting of six individual channels fed from a common collector cone. It is this geometry of the Spiraltron™ that enables longer detector life and higher dynamic range.

Unique Features

- Longer life
- Higher dynamic range
- Reduced ion feedback
- High performance elevated pressures
- Gains in excess of 100,000,000
- Noise less than 1 count/sec
- Excellent single ion sensitivity
- Small, compact linear configuration

Innovative Technology

The compact, innovative spiral design of the Spiraltron™ delivers a wide variety of benefits to analytical instrument manufacturers, including:

- Compact, on-axis design
- High dynamic range with six channels
- Higher pressure operation
- Analog or pulse counting modes
- Long life
- Cone shape can be tailored for the application - round, square, rectangular



Spiraltron™

Spiraltron™ detectors operate at elevated pressures into the 10^{-4} torr range, a factor of 10 above CEMs and discrete dynode multipliers. Spiraltron™ electron multipliers are ideal for applications requiring high linearity. In addition, they provide excellent single ion sensitivity, producing Gaussian pulse height distributions (PHD).

MegaSpiraltron™

The MegaSpiraltron™ detector is a physically small, robust ion detector that can achieve high gain while maintaining low noise. These detectors have a compact, durable design and are only 1.35" long and 0.6" in diameter making them an excellent choice for portable instrumentation.

MAGNUM™

MAGNUM™ electron multipliers provide high dynamic range with high gain and low noise. The single piece cartridge design allows easy integration and replacement. MAGNUM™ detectors are available for analog or pulse counting applications, with standard or extended dynamic range performance.

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