

Channeltron® Electron Multipliers

SENSITIVE
DEPENDABLE
DETECTORS



Detect more ions

Photonis designs and manufactures Channeltron® Electron Multipliers for analytical instruments and other charged particle applications. With their low mass and high gain properties, Channeltron® Electron Multipliers are durable and efficient detectors used in many nuclear physics labs and for space applications to count electrons and charged particles in pulse mode operation. With Photonis' Channeltron® detectors, you will be the first to detect more ions.



Spiraltron™ Channel Electron Multipliers

Spiraltron™ channel electron multipliers are designed to provide the maximum output while simultaneously reducing ion feedback. The six channel design provides long life and allows operation at elevated pressures in applications such as portable mass spectrometry.



Magnum® Detector Cartridges

The Magnum® detectors are based on the Spiraltron™ design of six spiral multiplier channels fed by a single ion aperture. Distributing the secondary electron generation over six separate channels increases linear output current and promotes longer detector life.



Over 150 Standard and Custom Designs

As the manufacturer of these superior detectors, Photonis works with our customers to meet your requirements. A variety of leads, feed-throughs and mounting options are available for easy integration into your process.



Extended Dynamic Range

Advanced Channeltron® detectors offer the highest dynamic range to insure a linear response beyond the limits of most analytic instruments.

Developments in the Channeltron® technology have extended the dynamic range (exclusive EDR option), enhanced lifetime under the environments typically encountered in mass spectrometers, and improved detection efficiency at higher masses.

Superior Sensitivity

Improvements in conversion dynode technology have resulted in structures capable of operation at higher voltages and materials with improved ion-to-electron conversion yields for better sensitivity at higher masses.



Custom Performance

Photonis supplies nearly half of the world's mass spectrometer detectors, designed to meet the mass spectrometer manufacturer's exact needs. By customizing everything from the coating to the desired throughput, we are experts in providing superior detectors. Whether you need the complete plug-and-play assembly or the stand-alone detector, Photonis will partner with you to design the exact product you need for your analytical instrument.

Looking for a replacement part?

Photonis specializes in providing replacement detectors for a wide variety of machines, even if the system is no longer available. Please email science@photonis.com to request a copy of the OEM Cross Reference Guide for more information.

PHOTONIS

Scientific Detectors

Photonis Technologies S.A.S

Domaine de PELUS
Axis Business Park - Bat E
18 Avenue de Pythagore
33700 Merignac, France

T +33 (0)556 16 40 50
F +33 (0)556 16 40 62
E science@photonis.com
W www.photonis.com

Photonis USA, Inc.

660 Main Street
Sturbridge Business Park
P.O. Box 1159, Sturbridge, MA 01518
United States of America

T +1 (508)347 4000
F +1 (508)347 3849
E science@photonis.com
W www.photonis.com

www.photonis.com

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