

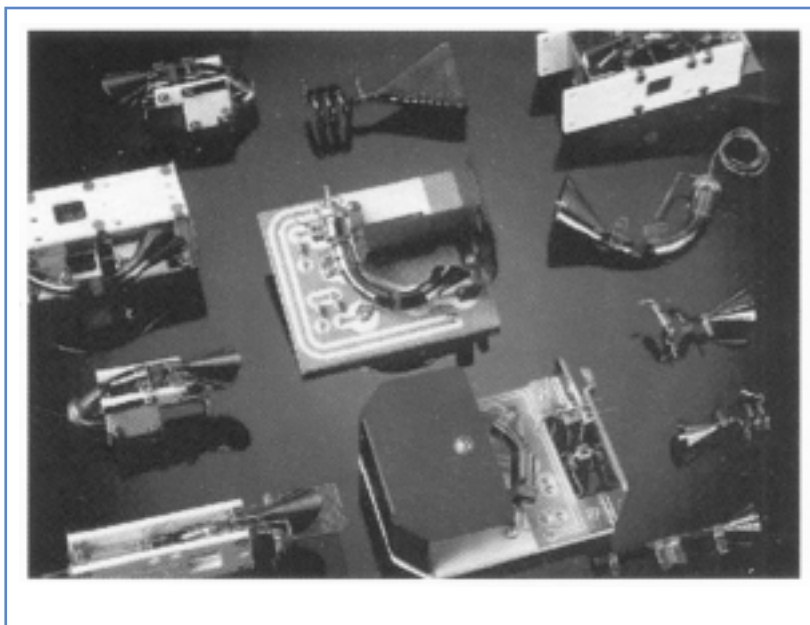
Channeltron® Mass Spec Detectors

Burle

A Photonis Group Company

Features:

- Sensitivity - New detector designs provide the highest sensitivity through superior signal collection and noise reduction.
- Dynamic Range - The highest dynamic range assures an absolutely linear response beyond the limits of most analytical instruments
- Long Life - BURLE's exclusive detector design provides sustained output longer than other detectors making Channeltron® Mass Spec Detectors the most economical detectors available.
- BURLE - The world's largest supplier of standard retrofit and custom detectors for mass spectrometry



Channeltron Mass Spec Detectors detect and amplify a wide variety of electro-magnetic phenomena such as: UV and X-ray photons, positive and negative ions, electrons and assorted molecular or sub-atomic particles. Burle detectors have widespread usage in applications as diverse as environmental analysis, surface analysis, pharmaceutical analysis, general laboratory spectroscopy, high-energy physics and space exploration.

Channeltron Mass Spec Detectors deliver high performance. Burle detectors are the preferred detector for mass spectrometer use. In-house glass production, materials research and applications engineering allow Burle to test the limits in custom design and fabrication. A 100% test and inspection policy guarantees customers the highest quality and most reliable detectors available in the world.

Warranty - All multipliers come with a **one year prorated warranty starting at the date of shipment**. Multipliers with insufficient gain or excessive noise should be returned to S.I.S. for evaluation and testing. If the multiplier proves to be defective due to manufacturing defects, it will be replaced at no charge during the first three months of use and prorated thereafter based on a one year life and a gain of 1×10^5 at 3 KV. Multipliers which test properly or which were damaged due to operator fault or carelessness will not be replaced; the user will be billed for testing.

Channeltron® is a registered trademark of Burle Electro Optics Corp.

4700 Series

These high-current detectors are designed for use in the analog current measuring mode. Designed to reach high performance at $>25\mu\text{A}$ bias current, the 4700 Series detectors are the most widely used quadrupole mass spectrometer detectors in the world. Channeltron® 4700 Series detectors are available mounted in ceramic housings and most are bakeable to 350°C .

4800 Series

These high-current/high gain detectors are designed for use in either pulse-counting or analog mode. Typically, a 4800 Series detector has 10X higher gain than 4700 Series detectors and an output pulse height distribution of 75% FWHM. The 4800 Series are available mounted in ceramic housings and most are bakeable to 350°C .

5700 Series

These are the new high performance detectors for mass spectrometers. They are designed for higher sensitivity, extended dynamic range and longer detector life. They provide a performance upgrade in many Agilent instruments.

Magnum Series

These detectors provide exceptional performance to achieve optimum mass resolution, dynamic range, and detection sensitivity for Mass Spectrometry measurements. Benefiting from their exclusive SPIRALTRON™ technology, BURLE'S Magnum™ delivers increased gain stability and extremely low noise.

BURLE'S replaceable Magnum™ cartridge can be installed quickly with minimal instrument down time. Installation can be performed by the instrument operator eliminating the need for an expensive factory service call.

*When "Burle" is indicated, it is intended to imply "Photonis USA, Inc."