IMI ADAPTAS™

OEM Mass Spectrometry Components

IMI Adaptas' exceptional scientific and technical expertise has developed high-performance ion detector products incorporated by virtually all of the world's mass spectrometry companies. We have developed high-quality multipliers, ion optic grids, and filaments for GC-MS and LC-MS, ICP-MS, TOF-MS, and magnetic sector applications, as well as world class ion optics software.

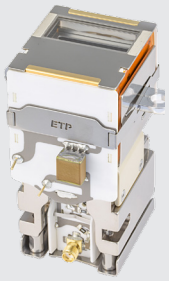
Product Offering Overview

Electron Multipliers

Discrete Dynode Electron Multipliers

Our Discrete Dynode Electron Multipliers are designed for optimal gain stability, improved linear dynamic range, superior detection life and high efficiency emission performance.

MagneTOF® Electron Multiplier

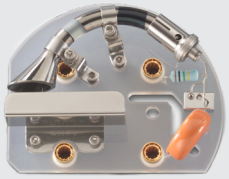


Our MagneTOF™ detectors provide an exceptional combination of performance characteristics. They eliminate the compromises associated with previous TOF detectors while exhibiting high dynamic range and sub nanosecond pulse widths.

Ceramic Continuous Dynode Electron Multipliers

Our CeraMAX™ Ceramic Continuous Dynode Electron Multipliers are designed with a robust ceramic structure and extended life with increased linear dynamic range.

Glass Continuous Dynode Electron Multipliers



Our Glass Continuous Dynode Electron Multipliers are designed for cost effective applications, low pressure performance and miniaturized designs.

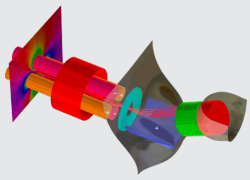
Custom Miniaturized Multipliers

Our miniaturized multipliers will meet your instrument requirements. IMI Adaptas' manufacturing flexibility allows us to specially form our multipliers in a variety of shapes and sizes while still producting maximum lifetime and gain.

Ion Optic TOF Grid

The IMI Adaptas Ion Optic TOF Grids have parallel wire grid, 18 µm tungsten wire construction, and 92% transmission (250 µm pitch). They are extremely rugged and damage resistant. The grids are circular or rectangular up to 180 mm and have ceramic or metal frames depending on your needs. Customization is also available.

Ion Optics Software - SIMION®



SIMION® has been the standard in design simulation software for over 30 years. It is utilized by major OEM's and is world renowned for calculating electric fields and trajectories of charged particles. OEM tailored courses are offered on-line for OEM R&D teams. Advanced feature propriety simulation software available for IMI Adaptas internal IP development.

04/23
US/LS/en 20.000.010.01

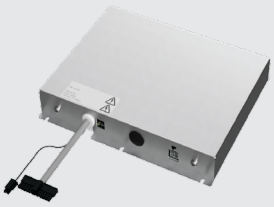
IMI ADAPTAS™

High Voltage Power Supply

Standard Products

IMI Adaptas manufactures a variety of high voltage power supplies for high stability, low noise, and fast switching ranging from 1kV to 60-kV and current from 15 mA to 400 µA. Our power supplies are designed with high stability performance, low ripple performance (as low as 0.0025%), fast reversing performance, hot switchable capable (as little as 25ms). Standard OEM models available for protyping.

Custom Solutions



IMI Adaptas manufactures cost-effective custom built high voltage power supplies to fit your specific supply requirements. We can customize based on multiple outputs, analog or digital control, switching speed to 10ms and beyond, ultra low noise, and form factor to fit your space requirements. We design for reliability, cost and ease of assembly.

Filaments

Manufacturing Capabilities

Our manufacturing capabilities for filaments include filament design, vacuum brazing, filament spot-welding, and high-purity cleaning of filament assemblies.

Filament Wire

IMI Adaptas manufactures filaments with SISAlloy® (rhenium/yttria alloy), rhenium wire, rhenium/tungsten wire or iridium wire.

Filament Wire Coating

We can coat filament wire with a yttria coating or thoria coating at various thicknesses.

Filament Repair

Standard, SISAlloy®, Yttria, and SISAlloy® with Yttria repairs available for a wide variety of filaments.