



Description

The Model NTI 1407 Ion Gun features Duoplasmatron performance in an electron impact ionization ion gun. By means of changeable apertures in the optical column, a wide range of beam currents and spot sizes may be obtained. At a beam energy of 5keV, beam current may be adjusted from 2uA into a 20um diameter spot to 20uA into a 100um diameter spot.

The optical column includes an integral Faraday cup for beam current measurement.

Advantages

- Unique ion source design for stable emission
- Dual filaments
- UHV construction
- Power supply and deflection supply in single 5.25" high, 19 inch rack mount enclosure

NTI 1407 Ion Gun and Controller

Specifications

Beam Energy	5eV to 5keV continuously variable
Beam Current	20uA maximum (Argon) @ 5keV Beam Energy
Spot Size (FWHM) (w/ 1mm aperture)	20um @ 2.0 uA , 40um @ 5.0 uA, 100 um @ 20 uA, 10 mm Working Distance
Electrical Requirements	115/220V 50/60Hz Autoselect
Mounting, Pumping Flanges	6" Conflat®, 2.75" Conflat®
Gas Inlet	1-1/3 (34mm) Conflat®

