

D1384-XY-aQ170-7



Dual Axis AO Deflector (MUV)

0923

The D1384-XY offers high speed dual axis scanning at 248nm or 266nm. This deflector consists of two 7mm active aperture AO deflectors mounted orthogonally in one assembly, with independent fine thread Bragg angle adjustment. Subject to availability, a half wave plate is included to rotate the input polarization between AO deflectors. Applications include:

- Material Processing
 Drilling
- Surface texturing

Micro machining

SPECIFICATIONS

Operating Wavelength: Interaction Material: Active Aperture:

Centre Frequency (x=fc): Sweep Bandwidth:

Diffraction Efficiency (DE) at fc: Diffraction Efficiency across scan: RF Power for max' DE Static Insertion Loss:

Bragg Angle: Separation Angle at fc: Scan Angle, 70MHz sweep: Input Laser Polarization:

Water Cooling (Minimum):

Deflector Performance: Total XY Efficiency Access Time: Resolution: 248nm or 266nm (please specify) Quartz 7mmH x 7mmW max.

170MHz (+/-10% for maximum bandwidth) 70MHz, 80MHz typical.

>80%, 85% typical per axis >70%, 80% typical per axis <10 Watts total per axis < 5% **248nm** 3.7 mrad **266nm** 4.0 mrad

 3.7 mrad
 4.0 mrad

 7.4 mrad
 7.9 mrad

 3.0 mrad.
 3.3mrad

 Linear, Vertical w.r.t. to X-axis

 (Half waveplate included between X & Y axis)

 > 2 Liter/Min. @ < 23°C</td>

Using 5 x 5mm beam ~60% across 70MHz scan 0.9µsec 70 x 70 <u>resolvable</u> spots >1000 x 1000 non-resolvable points

Typical 80MHz Sweep Response per AXIS

ALL SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICEISOMET CORP, 10342 Battleview Parkway, Manassas, VA 20109, USA.Tel: (703) 321 8301Fax: (703) 321 8546E-mail: ISOMET@ ISOMET.COMWeb Page: WWW.ISOMET.COM

Quality Assured. In-house: Crystal Growth, Optical Polishing, A/R coating, Vacuum Bonding

