

D1384-XY-aQ120-9

Dual Axis AO Deflector (NUV)



0823

The D1384-XY offers high speed dual axis scanning at 343nm or 355nm. This deflector consists of two 9mm active aperture AO deflectors mounted orthogonally in one assembly, with independent fine thread Bragg angle adjustment. 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, 40MHz sweep: Input Laser Polarization:

Water Cooling (Minimum):

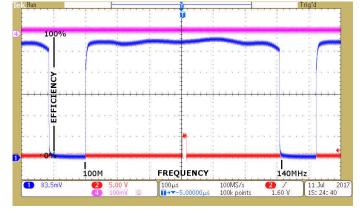
Deflector Performance: Total XY Efficiency Access Time: Resolution: 343nm or 355 nm (please specify) Quartz 9mmH x 9mmW max.

120MHz 40MHz

> 85%, 90% typical per axis
> 75%, 80% typical per axis
< 20 Watts total per axis
< 4%
343nm 355nm
3.6 mrad 3.7 mrad
7.25 mrad 7.5 mrad
2.4 mrad 2.5 mrad
Linear, Vertical w.r.t. to X-axis

(Half waveplate included between X & Y axis) > 2 Liter/Min. @ < 23°C

Using 7 x 7mm beam ~60% across 40MHz scan 1.5µsec 50 x 50 <u>resolvable</u> spots >1000 x 1000 non-resolvable points



TYPICAL SCAN 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

