

D1445-XY-T180L-2



Acousto-Optic Dual Axis Deflector

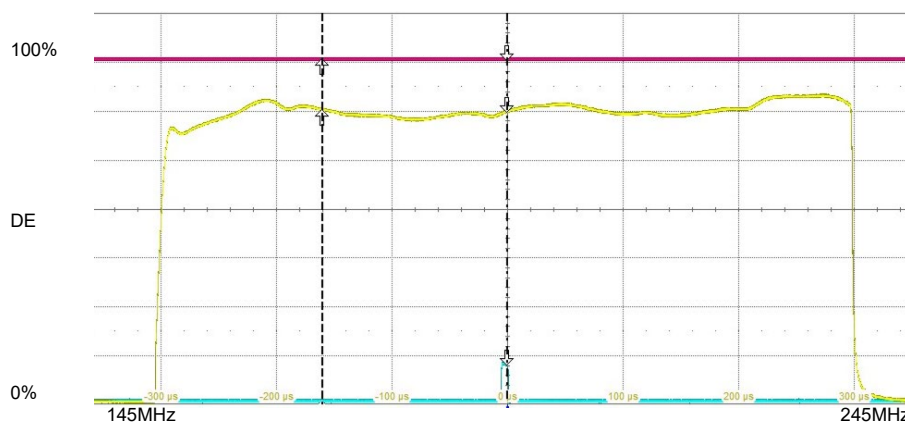
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This D1445-XY dual axis AO deflector is designed for operation in the blue-green spectrum. Each deflector incorporates two section acoustic beam steering to produce an efficient uniform scan response. Applications include high speed, multi-point or continuous beam scanning.

SPECIFICATIONS

Operating A/R Wavelengths:	480-540nm	
Optical Power:	5 Watts **	
Interaction Medium:	Tellurium Dioxide (TeO2)	
Acoustic Velocity:	4.2mm/μs	
Centre Frequency (Fc):	180MHz (+/- 15% for best BW)	
RF Bandwidth (BW):	>80MHz, 100MHz typical	
Input Impedance / VSWR:	50Ω Nominal / <1.7:1 @ Fc	
RF Power:	< 2 Watts total per axis.	
Clear Aperture:	3mm	
Active Aperture Height:	2mm	
Static Insertion Loss / Reflectivity:	<3% / <0.5%/surface at 0.4um	
Laser Polarization:	Any	
	488nm	532nm
Bragg Angle (mrad):	10.45	11.4
Separation Angle at Fc	20.9	22.8
Scan Angle, 80MHz sweep (mrad):	9.3	10.0
<u>Deflector Performance:</u>	Using 2 x 2mm beam	
Total XY Efficiency	~60% across 80MHz scan	
Access Time:	0.47μsec	
Resolution:	40 x 40 <u>resolvable</u> spots	
	>1000 x 1000 non-resolvable points	

Typical Scan Efficiency at 532nm PER AXIS *

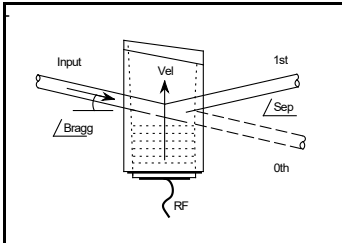


* Single mode input

** For higher powers please contact Isomet

ALL SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE
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Quality Assured.
In-house: Crystal Growth,
Optical Polishing,
A/R coating, Vacuum Bonding



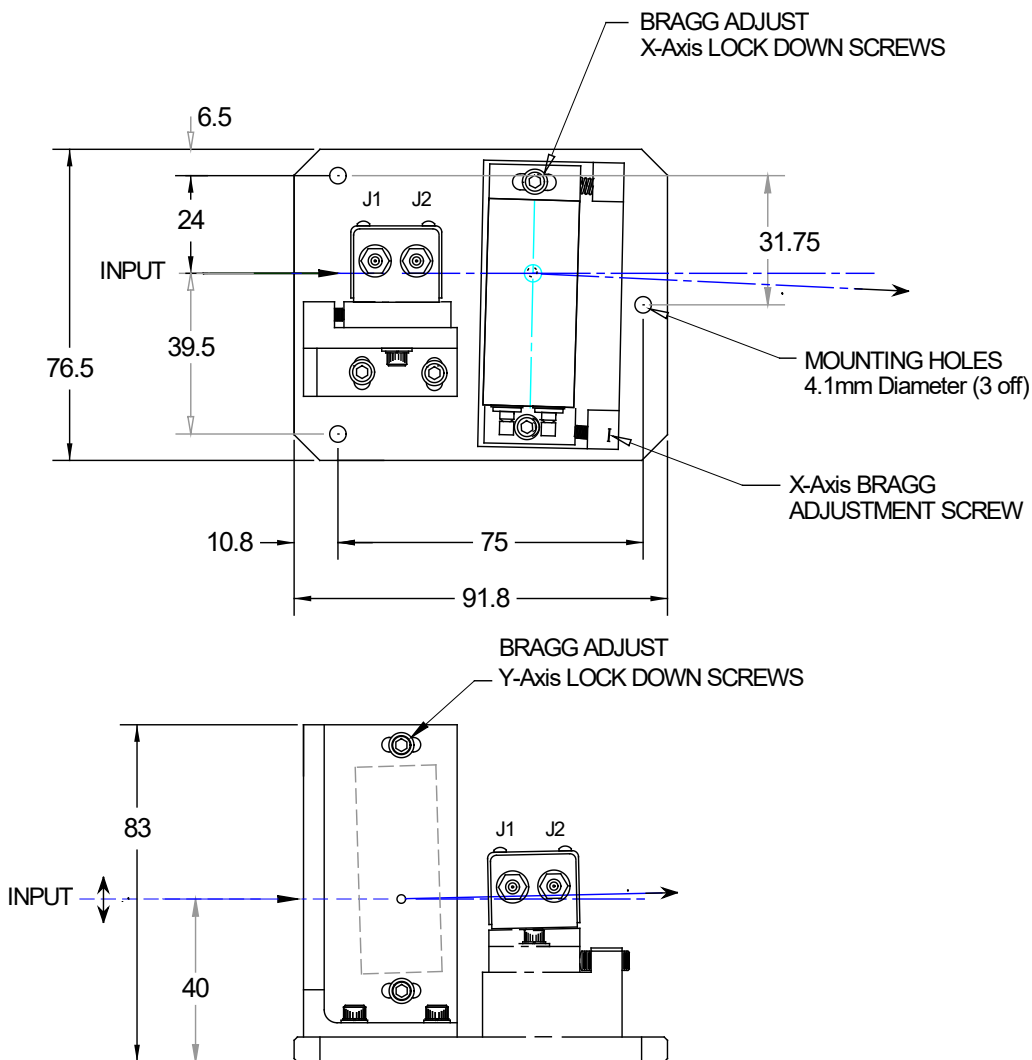
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OUTLINE DRAWING



RF DRIVERS

Isomet Synthesizer: iMS2-HF + (2x) BSM1445-220 splitter/delay module + (4x) AF0-200T-1-1 amplifiers.

External freq' source: (2x) BSM1445-220 splitter/delay module + (4x) AF0-200T-1-1 amplifiers.

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