Compact AO Deflector designed for High Power Fibre and DPSS, NIR lasers. The unit incorporates four section acoustic beam steering to produce a flat scan response. Applications include high speed, sequential multi-point scanning or fast sweep operation.

**SPECIFICATIONS**

- **Spectral Range:** 0.36 > 1.5μm
- **Standard A/R Wavelengths:** 1.1μm
- **Optical Power:** 100 Watts **
- **Interaction Medium:** Tellurium Dioxide (TeO2)
- **Acoustic Velocity:** 4.2mm/μs
- **Centre Frequency (Fc):** 110MHz (nominal)
- **RF Bandwidth:** 50MHz
- **Input Impedance:** 50Ω Nominal
- **VSWR:** <1.5:1 @ Fc
- **Clear Aperture:** 6.5mm
- **Active Aperture Height:** 4mm
- **Static Insertion Loss**<3% at 1.1μm
- **Reflectivity:** < 0.5%/Surface
- **Laser Polarization:** Any
- **RF Power (total):** 6 Watts nominal
- **Bragg Angle:** 15 mrad
- **Typical Scan Angle:** 13 mrad
- **Cooling:** Water cooled
  Corrosion inhibitor strongly recommended
  Thermal interlock switch opens at 40degC

**ESTIMATED SCAN PERFORMANCE at 1.1μm *

* Single mode input

** For higher powers please contact Isomet
D1135-T110L-4
Acousto-Optic Modulator

OUTLINE DRAWING

Options
- TC Tellurium copper case parts

Recommended Drivers
RFA3110-4BS, VCO and quad power amplifier
or
iMS4-P synthesizer with AN1-110T-4-6 quad amplifier