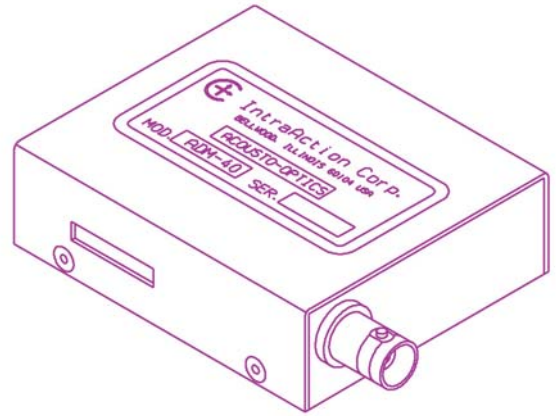


# MODEL ADM-40 ACOUSTO-OPTIC DEFLECTOR-MODULATOR

- LASER BEAM DEFLECTION
- INTENSITY MODULATION
- FLAT OPTICAL SCAN RESPONSE<sup>1</sup>
- OPTICAL FREQUENCY SHIFTING
- OPTICAL SIGNAL PROCESSING
- MULTIPLE BEAM GENERATION
- HIGH OPTICAL POWER CAPABILITY
- EXCELLENT TEMP. STABILITY & RELIABILITY



SPECIFICATIONS	
Optical Wavelength Range	440 to 700 nm
Acousto-optic Material	Dense Flint Glass
Center RF Frequency	40 MHz
Deflection RF Bandwidth	20 MHz
Optical Frequency Shift Range	± (30 to 50) MHz
Beam Separation	6.5 mrad (633 nm)
Angular Deflection	3.2 mrad (633 nm)
Diffraction Efficiency	85%
Active Optical Aperture	2 x 20 mm
Access Time	252 ns / mm beam width
Time-Bandwidth Product	100 (full aperture)
Intensity Modulation Bandwidth	2.9 MHz (1.0 mm beam diameter) 4.5 MHz (0.65 mm beam diameter)
Optical Rise Time	162 ns / mm optical beam width
Optical Polarization	Any
Static Optical Insertion Loss	2% (633 nm)
RF Drive Power	2 Watts (nominal at 633 nm)
RF Impedance	50 ohms (nominal)
RF Connector	BNC
Size (less connector)	2.94 D x 0.88 H x 2.46 W inches 74.6 D x 22.4 H x 62.5 W mm

<sup>1</sup> The Model ADM-40 incorporates an acoustic phased-array beam steering design which produces a relatively flat first order diffraction efficiency across the deflection bandwidth. A complete line of analog and digital OEM and laboratory drive electronics are available.