

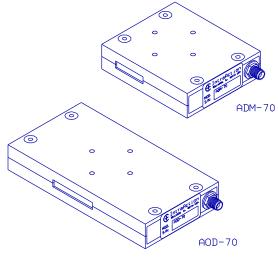


DEFLECTOR

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AOD-70 ACOUSTO-OPTIC DEFLECTOR ADM-70 ACOUSTO-OPTIC DEFLECTOR-MODULATOR

- Laser Beam Deflection
- Intensity Modulation
- Multiple Beam Generation
- Flat Optical Scan Response
- Acoustic Phased-array Design¹
- Optical Signal Processing
- Optical Frequency Shifting
- High Reliability



	\rightarrow
	633 nm
	Dense Flint Glass
	80 percent
	60 percent
	70 MHz
	40 MHz
	11.4 mrad (70 MHz)
	6.5 mrad
	2.5 watts
	50 ohms
	any
ADM-70	<u>AOD-70</u> 400(spot
	<u>ADM-70</u> 200(spots)

MODEL Time-Bandwidth Product(resolution) ⁴	<u>ADM-70</u> 200(spots)	<u>AOD-70</u> 400(spots)
Access Time (full aperture width)	5 : sec	10 : sec
Active Aperture Height	2 mm	2 mm
Active Aperture Width	20 mm	40 mm
Size (less connector)	2.8 L x 0.7 H x 2.4 W inches 7.1 L x 1.8 H x 6.1 W cm	4.5 L x 0.7 H x 2.4 W inches 11.5 L x 1.8 H x 6.1 W cm

¹ These deflectors incorporate and acoustic phased-array beam steering design to produce a relatively flat first order diffraction efficiency across the deflection bandwidth. Because of this design feature, the deflectors require a single RF power amplifier to drive the multiple transducer array. ² Useful at other wavelengths with modified specifications.

³ A complete line of VCO, synthesized, laboratory, and OEM drive electronics are available.

⁴ This is resolution as defined by the Rayleigh criterion for a uniformly illuminated optical beam.

