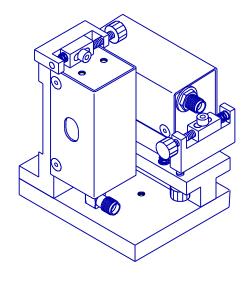
IntraAction Corp.

DEFLECTOR

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MODEL DTD-274HA6 2-AXIS ACOUSTO-OPTIC DEFLECTION SYSTEM

- -LASER BEAM DEFLECTION
- -OPTICAL TWEEZERS
- -LASER BEAM SCANNING
- -LOW DRIVE POWER
- -RELIABLE OPERATION



SPECIFICATIONS

Acousto-optic Material

Operating Mode

Optical wavelength

Active Aperture

Center Frequency

Deflection Bandwidth

Beam Separation

Deflection Range

Diffraction Efficiency

Optical Intensity Variation

Access Time

Time-Bandwidth Product

Optical Input and Output Polarization

RF Drive Power¹

Input Impedance

RF Connectors

Size

Tellurium Dioxide (TeO₂)

Slow shear / off axis

1064 nm

4 x 4 mm

27 MHz

16 MHz

45 mrad (27 MHz)

26.9 mrad (16 MHz bandwidth)

50 percent

<1 dB

 $1.6~\mu sec$ / mm beam diameter

100 (4 mm beam diameter)

Linear, perpendicular to assembly base

1 Watt per axis (nominal)

50 ohms (nominal)

SMA

2.73 D x 3.18 H x 2.42 W inches 6.93 D x 8.08 H x 6.15 W cm

¹ DVE series Dual Frequency Source (PCI computer board) & DPA series Dual RF power Amplifier are available for optical tweezers applications. Voltage Controlled Oscillator, deflector drivers are also available.