

ConOptics Model 412 2-Axis Deflection System



ConOptics Model 412 Electro-optic Deflection system includes two deflectors and two linear amplifiers. This configuration is typically used for “optical trapping”.

Model412 Key features:

Aperture	2.0mm
Maximum Deflection (Angle)	3.0 Milli-radians Peak to Peak
Access time	1 Micro-second
Transmission	>85% at 1064nm across the full scan angle
Collinear configuration	Center Out/ Center Out

Amplifier Key Features:

Cabinet	Driver and power supply in single cabinet
Input Impedance	Choice of amplifier input impedance by rear panel switch (50ohm/1K ohm)
Linearity	10bits referenced to full scale (.1%)
Bandwidth	DC to >200Khz with 90pf load and 3M (RG-62) cables
Max. Output Drive Level	750VP-P into 90pf load
Amplifier Input Signal	2VP-P max into 50/1K ohms delivers 750VP-P out
Input Signal Format	Options include Unipolar positive, negative or bipolar
Input Power (AC)	60W typical. Input power is both load (modulator) and frequency dependent.
Dimensions	19" Rack Mountable, 5.25"H(133mm) (3U) x 14"D (356mm)
Cooling	Forced air
Operating Environment	Designed for laboratory use (indoor only) Temperature range +5deg C to +50deg C ambient Humidity 20%-80% RH up to 32deg C Altitude <3000M
Weight	20lbs (9.07kg)