

Features

- Quadrupole electric field in an electro-optic material
- Large aperture diameters
- Operation in the UV and IR
- Higher output voltage drivers with special waveforms
- The construction of a beam pointing stabilizer
- X-Y systems by coupling two deflectors with an intermediate polarization rotator



Deflector Specifications

Model Number	M310A	M311A	M312	M312-2
Deflection Efficiency micro-radians/volt	1.5	3	0.6	1.2
Usable Aperture (mm)	2.5	2.5	2.7	2.7
Capacitance (pf)*	100	185	50	100
Spectral Range**	400-750	400-750	400-1100	400-1100
Length,"L"(mm)	4.65 (118)	8.62 (219)	2.77 (71)	4.9 (125)

* Available as 2 Port version : 50 and 100Ω

** UV and DUV options available

Deflection Systems Specifications

**Model 308 (High voltage digital driver) +
Model 302 (with model 312-5 five crystal deflector)**
Digital

Deflection	±1.5 milliradians (symmetric)
Rise/Fall Times	<60ns
Maximum pulse width	<100μs
cable length driver/deflector	<40cm
Rep rate	<1KHz
Droop	<< 5%
Amplitude control	Internal 0 to 1KV

Analog

Deflection	±0.3 milliradians
Bandwidth	DC to 250KHz
DC centering	< ±90microradians
Driver	Model 302

Model 317
(Dual deflection system, 311A deflector and 2 drivers)

Driver Specifications
Model M2100 Driver

Connected to 3 Crystal Port	0 to ±0.5mrad
Access Time	<35 ns
Bandwidth	<10kH to 12MHz
Input	<0 dbm (626mV p-p) signal must have net DC=zero waveform (50% duty cycle)
Dimensions	122 x 38.1 x 49.9 cm
Maximum pulse width (2% droop)	200ns
Static DC bias range	0 to 550V
Electrical input power	1.6KW

Model 301
(311A deflector & a dual driver)
Digital deflection (3 Crystals)

Input	TTL
Rep rate	40KHz Max.
Deflection angle	>±0.5 mrad
Access time	80ns

Analog deflection (1 Crystals)

Input	±2V, p-p/1K
Deflection frequency	DC-150KHz
Deflection angle	>±0.3 mrad

Cable Length

Deflector/Driver	60cm
Driver/ Control cabinet	3M

Model 302 Driver

Connected to single crystal port	0 to ±0.3mrad (DC to 200KHz)
Access time	<1μs
Input requirement	<2V p-p
Input impedance	<50Ω
Output voltage	750V p-p
Bandwidth (-3db)	200KHz
Driver cabinet	6.5" (W) x 4.125" (L) x 4.15" (H)
Power supply cabinet	19" Rack x 5.25" (H)