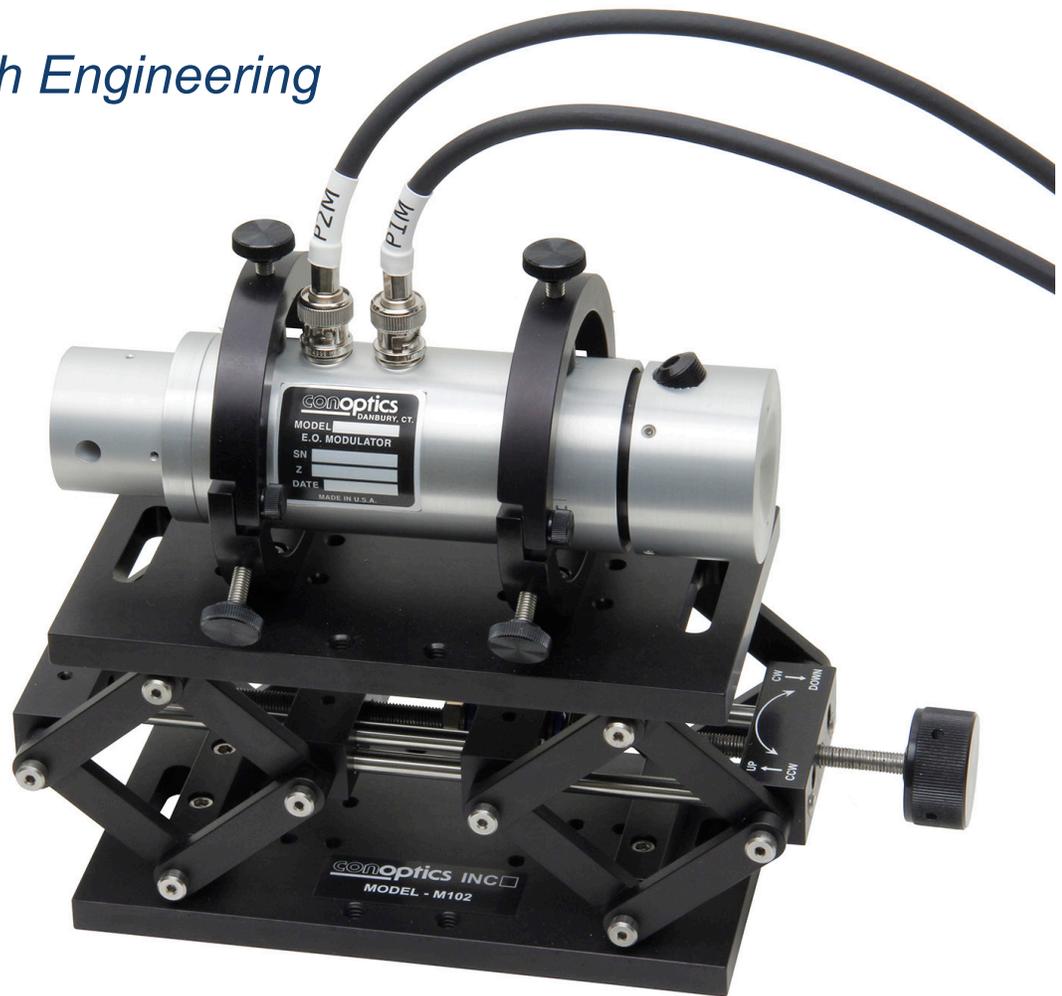


2019 Modulators



Innovation Through Engineering



Conoptics manufactures a line of electro opticmodulators. Our most popular electro-optic modulators are of the transverse field type, that is, the electric field produced by the applied signal voltage is perpendicular to the optical propagation direction. The voltage swing required by a given modulator at a given operating wavelength to transit between the full off state to the full on state is called the Half Wave Voltage ($V\frac{1}{2}$).

Conoptics manufactures three types of E-O Modulators:

- Amplitude E- O Modulators*
- 0 to 90 Degrees Polarization (Variable Waveplate) E-O Modulators*
- Phase E-O Modulators*

Highest Quality Craftsmanship



Conoptics High Frequency Phase Modulator

Model Number	Wavelength	Bandwidth	Phase Sensitivity
Model350-25HFP	350nm-to-1000nm	500MHz	5 mrad/volt at 350nm
Model350-50HFP	350nm-to-1000nm	320MHz	10mrad/volt at 350nm
Model360-40HFP	700nm-to-2000nm	500MHz	13mrad/volt at 830nm
Complete Systems			

Conoptics broadband amplifiers interface with the phase modulators

Model Number	Wavelength	Bandwidth	Phase Sensitivity
M505 & M350-25HFP	350nm	150khz-300MHz	175mrad Phase Shift
M200 & M350-50HFP	350nm	10Khz – 200MHz	1.7 Radians Phase Shift
M550 & M360-40HFP	830nm	20MHz -500MHz	1.8 Radians Phase Shift

Available Options



Conoptics' new "Beam Block" assembly allows an integrated solution that terminates the rejected component of the polarizer. This innovative design eliminates the need for any external beam block, and provides a safer setup design.



The Achromatic Half wave plate input, allows more flexibility on the input / output polarization orientations. It is also an excellent solution to attenuation the laser beam without comprising polarizing quality



Input Polarizer is used to improve the purity of the laser beam entering the pockel-cell. The performance of our modulators in particular the extinction ratio and transmission, are dependent on proper alignment of the laser beam and its polarization.



Removable Output Polarizer allows for either amplitude modulation or polarization rotation

A leader in optics & laser accessories

ADP Crystal Series Wavelength Limits (240 to 800 nm)*

Model Number	V $\frac{1}{2}$ wave @ 500nm	V $\frac{1}{2}$ wave @ 830nm	Aperture Diameter	Resonances	Contrast Ratio @ 633nm	Length w/ Polarizer
M370	184	306	2.5mm	No	500:1	158mm
M370 LA	263	437	3.5mm	No	500:1	158mm
M380	92	153	2.5mm	No	500:1	253mm
M390	115	190	3.5mm	No	500:1	272mm

KD*P Crystal Series Wavelength Limits (240 to 1100nm)*

Model Number	V $\frac{1}{2}$ wave @ 500nm	V $\frac{1}{2}$ wave @ 830nm	V $\frac{1}{2}$ wave @ 1064nm	Aperture Diameter	Resonances	Contrast Ratio @ 633nm & 1064nm	Length w/ Polarizer
M350-50	455	757	970	3.1mm	Yes	500:1,700:1	106mm
M350-80	261	433	522	2.7mm	Yes	500:1,700:1	137mm
M350-80LA	360	600	720	3.5mm	Yes	500:1,700:1	137mm
M350-105	226	376	472	3.1mm	Yes	500:1,700:1	162mm
M350-160	130	216	275	2.7mm	yes	300:1,500:1	215mm
M350-210	113	188	240	3.1mm	Yes	300:1,500:1	268mm

LTA Crystal Series Wavelength Limits (700 to 2000nm)

Model Number	V $\frac{1}{2}$ wave @ 1064nm	V $\frac{1}{2}$ wave @ 2500nm	Aperture Diameter	Resonances	Contrast Ratio @ 1064nm	Length w/ Polarizer
M360-40	312	400	2.7mm	Yes	200:1	95mm
M360-80	143	183	2.7mm	Yes	100:1	137mm
M360-120	107	138	2.7mm	Yes	100:1	174mm
M360-160	71	92	2.7mm	Yes	100:1	215mm



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