Newlight Photonics Inc.
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Optical Components for Photon Entanglement (2023)

Part Number	Description	In stock	Price (US$)
WPA03-H-810	Air-spaced 0th order half waveplate @ 810nm, aperture 15.0mm, AR@810nm on both surfaces, OD 1" mounted	Yes	$349
WPA03-H-405	Air-spaced 0th order half waveplate @ 405nm, aperture 15.0mm, AR@405nm on both surfaces, OD 1" mounted	Yes	$349
WPA03-Q-810	Air-spaced 0th order quarter waveplate @ 810nm, aperture 15.0mm, AR@810nm on both surfaces, OD 1" mounted	Yes	$349
WPA03-Q-405	Air-spaced 0th order quarter waveplate @ 405nm, aperture 15.0mm, AR@405nm on both surfaces, OD 1" mounted	Yes	$349
NCBBO5050-405(I)-HA3	BBO crystal, aperture 5x5mm, Thickness 0.5mm, cut for Type I phase matched SPDC pumped by 405nm with the half opening angle of 3 degrees, AR coated, OD 1" mounted	Yes	$599
NCBBO5300-405(I)-HA3	BBO crystal, aperture 5x5mm, Thickness 3.0mm, cut for Type I phase matched SPDC pumped by 405nm with the half opening angle of 3 degrees, AR coated, OD 1" mounted	Yes	$619
PABBO5050-405(I)-HA3	Paired BBO crystals(2pcs), size 5x5x0.5mm(each), cut for Type I phase matched SPDC pumped by 405nm with the half opening angle of 3 degrees, AR coated. The two crystals mounted together in a 1" holder with one crystal rotated by 90 degrees about the axis normal to the incidence face	Yes	$1,099
NCBBO5050-405(**II**)-HA5	BBO crystal, aperture 5x5mm, Thickness 0.5mm, cut for **Type II** phase matched SPDC pumped by 405nm with the half opening angle of 5 degrees between the two entangled-state emission directions, AR coated, OD 1" mounted	4 weeks	$599
NCBBO5300-405(**II**)-HA5	BBO crystal, aperture 5x5mm, Thickness 3.0mm, cut for **Type II** phase matched SPDC pumped by 405nm with the half opening angle of 5 degrees between the two entangled-state emission directions, AR coated, OD 1" mounted	4 weeks	$619
NCBIBO5050-405(I)-HA3	BiBO crystal, aperture 5x5 mm, Thickness 0.5mm, Type I phase matched SPDC pumped by 405nm with the half opening angle 3 degrees, AR coated, OD 1" mounted	Yes	Email/Call
NCBIBO5300-405(I)-HA3	BiBO crystal, aperture 5x5 mm, Thickness 3.0mm, Type I phase matched SPDC pumped by 405nm with the half opening angle 3 degrees, AR coated, OD 1" mounted	Yes	Email/Call
PABIBO5050-405(I)-HA3	Paired BiBO crystals(2pcs), size 5x5x0.5mm(each), cut for Type I phase matched SPDC pumped by 405nm with the half opening angle of 3 degrees, AR coated. The two crystals mounted together in a 1" holder with one crystal rotated by 90 degrees about the axis normal to the incidence face	Yes	Email/Call

PBS0012-B-650-900	Broadband polarizing beamsplitter cube, size 12.7x12.7x12.7mm, spectral range: 650-900nm	Yes	$199
PBS0012-405/810	Broadband polarizing beamsplitter cube, size 12.7x12.7x12.7mm, spectral range: dual wavelengths @ 405 and 810nm	Yes	$429
BHR10-750-850-45	Broadband high-reflective dielectric mirror, R>99.5% for both *s* - and *p* -polarization @ AOI 45 deg, wavelength range 750-850nm, diameter 25.4mm, thickness 6.0mm	Yes	$119
BHR10-380-420-45	Broadband high-reflective dielectric mirror, R>99.0% for both *s* - and *p* -polarization @ AOI 45 deg, wavelength range 380-420nm, diameter 25.4mm, thickness 6.0mm	Yes	$119
QAM12050-A-AR405	Phase adjuster, Material: Quartz, *a* -cut, Size 12.7x12.7x0.5mm, AR@405nm, OD 1" mounted	Yes	$349
QAR25550-A-AR405	Time delay compensator, Material: Quartz Crystal, a-cut, Dia 25.4 x 5.50mm, AR coated@405nm, temporal delay ~ 210fs @405nm	Yes	$479
QAT25135-A-AR405	Time delay compensator, Material: Quartz Crystal, a-cut, Dia 25.4 x 13.5mm, AR coated@405nm, temporal delay ~ 500fs @405nm	5 weeks	Email/Call
BSBBO5150-405(I)	Birefringent spatial compensator, Material: BBO, Size 5x5x1.5mm, matched to the 3.0mm thick Type I SPDC crysat pumped by 405nm, mounted	4 weeks	$579.00
BSBBO5150-405(II)	Birefringent spatial compensator, Material: BBO, Size 5x5x1.5mm, matched to the 3.0mm thick Type II SPDC crysat pumped by 405nm, mounted	4 weeks	$579.00
LWPF1030-RG715	Long-wave pass red glass filter, cutoff wavelength 715nm, diameter 25.4mm, uncoated	Yes	$69
BWPF1030-BG39	Bandpass blue glass filters, transmission range 350-600nm, block 750-900nm, diameter 25.4mm, uncoated	Yes	$54
NBF810-10	Narrow bandpass filter, centered at 810nm with 10nm bandwidth, aperture 20mm, OD 1" mounted	Yes	$169
GSC0110	Glan-Thompson polarizer, fabricated from high laser quality calcite crystal, high extinction ratio: 100,000:1, aperture 10mm, OD 1" mounted	5 weeks	Email/Call
RPB0110	*alpha* -BBO Rochon polarizer, ~ 15 degree beam deviation, extinction ratio: 200,000:1, aperture 10mm, OD 1" mounted	Yes	Email/Call
PDC1040	Beam Displacing Polarizer, Material: Calcite, Aperture 10x10mm, Beam displacement 4.0mm, Uncoated, OD 1" mounted	4/5 weeks	Email/Call

** Prices/lead times are subject to change without prior notice.*

Please contact Newlight Photonics for SPDC compoments with pumps other than 405nm.