



Qty	Part & Vendor	Description
Pump Laser Assembly		
1*	EGISMOS Corp. AS-D6-7-405-20	405nm 20mW laser diode.
1**	ILX Lightwave LDM-4407	Temp. controlled laser diode mount.
1	Thor Labs LT110A	Diode laser collimation tube and lens.
1**	ILX Lightwave LDC 3722B	Laser diode controller.
BBO Crystal and Mounting Assembly.		
1	Newlight Photonics	BBO crystal. 7x7x5mm. Cut for type I degenerate down conversion from 406nm to 812nm with a 3 degree opening angle between signal and idler. Theta = 28.9 degrees. Phi = 0 degrees. Anti-reflective coatings at 406nm and 812nm on input and output facets.
1	Thorlabs PR01	Precision rotation mount.
1	Thorlabs PM1	Prism mount.
1	Thorlabs KM100P	Kinematic prism mount.

Avalanche Photodiode Modules and Collimated Fiber Optic Assemblies.

3	Pacer SPCM-AQRH-12-FC	APD module.
3	Thorlabs M31L01	Multimode fiberoptic patch cable.
3	Thorlabs F220FC-B	Fiberoptic collimation package.
3	Thorlabs	10nm bandpass filter @ 810nm.
3		Homemade filter holders threaded to screw onto F220FC-B.
3	Thorlabs KC1-T	Threaded kinematic mount.
General Optics Components		
1	Thorlabs PBH11107	Optical breadboard.
3	New Focus 9891	Flip mirror holder.
2		Front surface Al mirrors. (For directing 405nm beam onto BBO crystal).
1	Thor Labs WPH05M-405	Halfwave plate @ 405nm.
1	Newport RSA-1T	Filter holder for WPH05M-405.
2	Thorlabs WPH05M-808	Half waveplate @ 808nm.
2	Thorlabs RSPC1C	Rotation mount for 808nm half wave plates.
2	Thorlabs BS017	Non polarizing cube beam splitter @ (700nm-1100nm).
2	New Focus 9411	Beam splitter holder.
2	Thorlabs LPVIS050	Vis-IR linear polarizer.
3	Thorlabs RSP05	Rotation mount for polarizers.
1	Thorlabs AE0505D08F	Multilayer piezo stack.
1**	Thorlabs MDT690	3-axis piezo controller. (Only need 1 of the 3 outputs)
9	Thorlabs PF10-03-M01	Protected gold mirror.
8	Thorlabs KMS	Kinematic mirror mount.
1	Thorlabs MT1	Translation stage.
1	Thorlabs DET-1	Photodiode.
1	Thorlabs NDL-25C-2	Continuously variable neutral density filter.

2	Thorlabs ID25	Post mounted Iris.
30	Thorlabs PH2	2" post holder.
30	Thorlabs BA2	Post holder base.
30	Thorlabs TR2	2" optical post.
3	Thorlabs LG10	Laser safety goggles.
1		5mW HeNe laser.

* The 405nm diode laser which we are currently using is discontinued and no longer available. We have purchased a number of these diodes as backups. They have not been tested in our setup, but there is no reason they should not work.

** These are items we already had laying around and were suitable for the task at hand, but might be considered more than necessary.