

Item	details	quant
Photon Counting		
Photon counters	SPCM-AQ4C	1
SPCM power supply	SPCM-AQ4C-IO	1
fibers	opaque jacket fiber (50 micron)	4
Computer with LabVIEW	Needs 2 RS232 COM ports (or suitable adapters)	
Optical table or breadboard	4x6 is luxury, 3x5 is sufficient. 3x4 might work, but I think you'd be cramped	
Down Conversion		
Violet laser - 405 nm, 100+ mW	MDL-III-405 Opto Engine LLC	1
laser power supply	Current source	1
Beam block for violet laser		1
2 turning mirrors for violet light, with mount		2
iris for defining violet beam		1
Violet half-wave plate		1
Mount for violet half-wave plate		1
Down-conversion crystal (long crystal for sin	BBO Crystal	1
Mount for down-conversion crystal		1
Linear polarizer		1
rotation stage for linear polarizer		1
base	base	8
2" post	2" post	8
2" post holder	2" post holder	8
Alignment Laser		
808nm laser diode	Fiber Pigtailed Laser Diode	1
laser power supply	LDX-3500B Current Source	1
Collimation package	Collimation for laser (with lens)	1
fiber coupling lens	FC connector fiber coupling lens	1
mount	Kinematic mount	1
adapter	adapter for coupling lens	1
cage rods	Cage assembly rod - 3"	4
plate	Threaded Cage Plate	1

lens tube	Lens Tube 1"	1
base	base	1
2" post	2" post	1
2" post holder	2" post holder	1
Fiber-Coupled Detectors (4-channel)		
Lens	f=11mm, NA=0.25, AR coat 600-1050nm	4
lens adapter	Lens to SM1	4
fiber adapter	FC fiber to SM1	4
1" mount for fiber lens	kinematic mount	4
lens tube	SM1 lens tube, 1"	4
irises for defining downconversion beams		4
base	base	8
2" post	2" post	4
2" post holder	2" post holder	8
fiber patch cable	1m multimode, FC connectors	4
Optical Filters (4-channel)		
Lens	f=11mm, NA=0.25, AR coat 600-1050nm	8
lens adapter	Lens to SM1	8
fiber adapter	FC fiber to SM1	8
mount	Kinematic mount	4
lens tube	SM1 lens tube, 1"	8
plate	Threaded Cage Plate	4
cage rods	Cage assembly rod - 4"	16
RG780 filter	780 nm longpass filter in filtering unit	4
retaining ring	For holding filters	8
base	base	4
2" post	2" post	4
2" post holder	2" post holder	4
fiber patch cable	1m multimode, FC connectors	4
Grangier Experiment		

Polarizing beamsplitter	use with half-waveplate to make adjustable beamsplitter	1
Polarizing beam splitter mount		1
Down conversion half-wave plate		1
rotation stage for half-wave plate		1
base	base	2
2" post	2" post	2
2" post holder	2" post holder	2
Single-Photon Interference		
Beam Displacing Polarizers	4 mm beam displacement	2
Down conversion half-wave plate	(need 3, have one from Grangier)	2
rotation stage for half-wave plate		2
beamdisplacing prism mounts	Suprema mount	2
base	base	4
2" post	2" post	4
2" post holder	2" post holder	4