

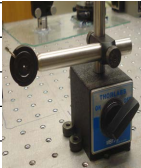


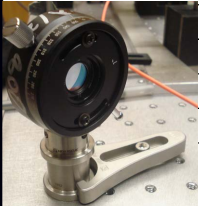
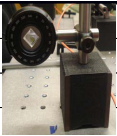
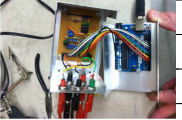

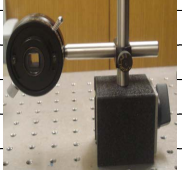


Price list for photon experiments KG last update: 12/17							
Basic down-conversion							totals
		vendor	model	price	#	total	
mirror for blue laser	1" dielectric mirror	Thorlabs	BB1-E02	75	1	75	It is important to have a mirror that does not absorb the blue laser - Al absorbs!
	mirror mount	Thorlabs	KM100	40	1	40	
	2" pedestal	Newport		9954	26	26	
	regular fork clamp	Newport		9909	14	14	
Down conversion crystal	BBO 5x5x3mm 29deg	Newlight Photonics Inc.		549	1	549	
	type-I						
	Rotational/tilt mount	Thorlabs	KS1RS	232	1	232	NEW- provides most convenient adjustments.
	1.5" pedestal	Newport		9953	26	26	
	regular fork clamp	Newport		9909	14		
Helpful	iris	Thorlabs	ID25SS	56	2	112	
	Magnetic mount	Thorlabs	MB175	48	2	96	
	3" post	Thorlabs	TR3	5	4	20	
	Post holder	Thorlabs	RA90	10	2	20	
	Thumbscrews	Thorlabs	TS25H	2	4	8	256
HeNe laser (surplus)							

Blue laser options (NEW)	(1) GaN diode laser	Power technology		7000	1	7000	Current and temp control	
	(2) GaN diode laser	Crystal laser	DL-405-50	4000	1	4000	Current and temp control, 50 mW	
(1)	(3) GaN diode laser	Power technology	GPD405-50	400	1	400	Current control, 50 mW	
	(4) GaN diode laser	Axiz	AIX-405-150T	64	1	64	Rugged, but with current and temp control, 150 mW	
	(5) GaN laser pointer	Laser pointer pro	HK-E03143	41	1	41	free running	
	1.5" pedestal	Newport		9953	26	2	52	for all but (3)
(5)	regular fork clamp	Newport		9909	14	2	28	for all but (3)
	Holder	Thorlabs	KM100V	89	1	89	for (5)	
	Safety goggles	Thorlabs	LG1, LG2 or LG9	196	2	392	as many as needed!	
								872
mirrors for HeNe	20mm mirror mounted	Edmund	M33-502	85	3	255		
	2.5" pedestal	Newport		9955	23	3	69	
	Thread adapter	Thorlabs	AP8E25E	1.7	3	5.1	These are to connect mirror	
	Spacers	Thorlabs	SD1	7	3	21	to pedestal.	
	regular fork clamp	Newport		9909	14	3	42	
	flipper mirror	Newport		9891	149	1	149	
	1.5" pedestal	Newport		9953	26	1	26	
	dielectric mirror	Thorlabs	BB1-E02	75	1	75		642.1
Band-pass filters	1" 800nm, 40nm	Thorlabs	FB800-40	99	3	297		



Electronics	(1) Coincidence unit software	Altera DE2 Labview	DE2	250	1	250		250
								
Optical breadboard	2'x5'x4"	Thorlabs	B3060G	1900	1	1900		1900
			<b>Total basic downconversion</b>					<b>10633</b>
<b>Single Photon interference setup</b>								
Mach-Zehnder	Non-polarizing beam splitters near IR 20mm	Thorlabs	BS017	190	2	380	buy together	
	Beam splitter mount	Newport		9481	336	2	672	
	1.5" pedestal	Newport		9953	26	3	78	
	mounted mirror	Edmund	M33-502		85	3	255	
	2.5" pedestal	Newport		9955	30	2	60	
	Thread adapter	Thorlabs	AP8E25E		7	2	14	
	short fork holder	Newport		9916	13	4	52	
	piezo electric linear stage	Thorlabs	AE0505D08F	131	1	131	6.6x6.5x10mm w/o amplifier	
		Thorlabs	MT1	286	1	286		1928
Eraser additions	Zero-order waveplates	NewLight Photonics	WPA03-H-810	249	2	498		
	polarizer holder	Optosigma	114-0240	125	2	250		
	holder adapter	Optosigma	114-0420		35	2	70	
	1.5" pedestal	Newport		9953	26	2	52	
	short fork holder	Newport		9916	13	2	26	
	polarizing beam splitter	Thorlabs	PBS102	183	1	183		

	Rotary mount	Thorlabs	RSP1x15	128	1	128	
	1" adapter for PBS	custom					
	Magnetic mount	Thorlabs	MB175	48	1	48	
	3" post	Thorlabs	TR3	6	2	12	
	Post holder	Thorlabs	RA90	10	1	10	
	Thumbscrews	Thorlabs	TS25H	2	2	4	1281
Additional electronics  (1)	(1) D/A interface	Arduino	custom	50	1	50	
	(2) Voltage amplifier	Emco	Q02-24	81	1	81	131
 (2)			<b>Additional interference</b>				<b>3209</b>
<b>Entanglement/Bell setup</b>							
	Half-wave plate 405nm	NewLight Photonics	WPA03-H-405	249	1	249	
	Rotational mount	Thorlabs	RSP1x15	128	1	128	
	Compensating crystal	Newlight	QAR25550-A-AR405	429	1	429	
	Crystal pair	Newlight	PABBO5050-405(I)-HA3	1000	1	1000	
	Rotational/tilt mount	Thorlabs	KS1RS	232	1	232	NEW
	1.5" pedestal	Newport	9953	20	1	20	
	Glan-Thompson prism	Thorlabs	GTH10M	555	2	1110	
	prism rotary holder	Optosigma	114-0240	125	2	250	
	holder adapter	Optosigma	114-0420	35	2	70	
	1.5" pedestal	Newport	9953	20	2	40	
	regular fork clamp	Newport	9909	14	2	28	
			<b>Additional Entanglement</b>				<b>3556</b>
			<b>All</b>				<b>17398</b>

single items	optics	mounts	new	used	
	75			75	
		40		40	
		26		26	
		14		14	
549			549		
		232	232		
		26		26	
		112		112	
		96		96	
		20		20	
		20		20	
		8		8	

400			400		
		52		52	
		28		28	
				392	
	255			255	
		69		69	
		5.1		5.1	
		21		21	
		42		42	
				0	
		149		149	
		26		26	
	75			75	
	297		297		





250			250		
1900				1900	
7389	1281	1571.1	6913	3720.1	10633.1
	380			380	
				0	
		672		672	
		78		78	
	255			255	
		60		60	
		14		14	
		52		52	
	131		131		
		286		286	
	498		498		
		250	250		
		70		70	
		52		52	
		26		26	
	183			0	

		128		128	
		0		0	
		48		48	
		12		12	
		10		10	
		4		4	
50			50		
81			81		
131	1447	1762	1010	2147	3157
	249		249		
		128	128		
	429		429		
	1000		1000		
		232	232		
		20		20	
	1110		1110		
		250	250		
		70	70		
		40		40	
		28		28	
0	2788	768	3468	88	
7520	5516	4101.1			