

Item Name	Product Details	Web link	Cost	Quantity	Notes
Beam Conditioning					
Ultra-compact femtosecond laser	Spark laser ALCOR 920nm 2W	https://rpmclasers.com/wp-content/uploads/products/ALCOR	\$71,200	1	
Ultra-compact femtosecond laser	Extended warranty		\$19,936	1	
Beam block	LB1/M - Beam Block, 400 nm - 2 µm,	https://www.thorlabs.de/thorproduct.cfm?partnumber=LB1/M	\$59	2	
Adjustable ring mount	Edmund Optics (#36-605)	https://www.edmundoptics.com/p/95mm-outer-diameter-three	\$76	2	
Beam block	LB2 - Beam Block, 1 - 12 µm,	https://www.thorlabs.de/thorproduct.cfm?partnumber=LB2	\$181	3	
IR detector card	VRC4 - 790 - 840 nm, 870 - 1070 nm, 1500 - 1590 nm	https://www.thorlabs.com/thorproduct.cfm?partnumber=VRC4	\$94	1	
Cage alignment plate	VRC4CPT	https://www.thorlabs.com/thorproduct.cfm?partnumber=VRC4CPT	\$36	1	
Iris	SM1D12C	https://www.thorlabs.com/thorproduct.cfm?partnumber=SM1D12C	\$120	3	
Cage plate	CP33	https://www.thorlabs.com/thorproduct.cfm?partnumber=CP33	\$19	1	
Mounted achromatic half-wave plate	AHWP10M-980 - Ø1"	https://www.thorlabs.com/thorproduct.cfm?partnumber=AHWP10M-980	\$1,059	1	
Rotation mount	PRM1	https://www.thorlabs.com/thorproduct.cfm?partnumber=PRM1	\$325	1	
Polarizing beamsplitter cube	PBS103 - 10 mm	https://www.thorlabs.com/thorproduct.cfm?partnumber=PBS103	\$222	1	
Kinematic platform mount	KM100B - 1.92" x 1.92"	https://www.thorlabs.com/thorproduct.cfm?partnumber=KM100B	\$66	1	
Adjustable clamping arm	PM4	https://www.thorlabs.com/thorproduct.cfm?partnumber=PM4	\$27	1	
Laser power meter	Coherent FieldMaxII	https://coherentinc.my.site.com/Coherent/laser-measurement	\$1,283	1	
Mirror	PF10-03-P01	https://www.thorlabs.com/thorproduct.cfm?partnumber=PF10-03-P01	\$56	5	
Mirror mount	KM100	https://www.thorlabs.com/thorproduct.cfm?partnumber=KM100	\$42	5	
Alignment tool 103	Conoptics	refer to https://conoptics.com/wp-content/uploads/2013/09/Conoptics_Modulator_Mount.pdf		1	
Si switchable gain detector	PDA36A2 - Si Switchable Gain Detector, 350 - 1100 nm	https://www.thorlabs.com/thorproduct.cfm?partnumber=PDA36A2	\$374	1	
Shutter	LS6S2ZM1 Vincent Associates	https://www.uniblitz.com/products/ls6/	\$1,045	1	
Shutter driver	VCMD1	https://www.uniblitz.com/products/vcm-d1-shutter-driver/	\$1,210	1	
Long pass filter	FELH0850 - Ø25.0 mm Longpass Filter, Cut-On Wavelength: 850 nm	https://www.thorlabs.com/thorproduct.cfm?partnumber=FELH0850	\$144	1	
Conoptics Pockels cell 101 alignment tool	Model 102A Adj. Modulator Mount with Model 103 Alignment	https://www.conoptics.com/conoptics-accessories/model-102a-adjustable-modulator-mount	\$950	1	
Beam expander (Telescope)	GBE02-B - 2X Achromatic Galilean Beam Expander,	https://www.thorlabs.com/thorproduct.cfm?partnumber=GBE02-B	\$479	1	
Right-angle kinematic mirror mount	KCB1	https://www.thorlabs.com/thorproduct.cfm?partnumber=KCB1	\$155	1	
Cage plate	CP12 - 30 mm Cage Plate, Ø1.2" Double Bore for SM1 and C-Mount	https://www.thorlabs.com/thorproduct.cfm?partnumber=CP12	\$24	1	
Broadband precision window	WG11010 - Ø1" N-BK7 Broadband Precision Window, Uncoated	https://www.thorlabs.com/thorproduct.cfm?partnumber=WG11010	\$91	2	
Thread depth	SM1L20 - SM1 Lens Tube, 2.00" Thread Depth, One Retaining Ring	https://www.thorlabs.com/thorproduct.cfm?partnumber=SM1L20	\$18	1	
Drop-on rail carriage	XT95RC4 - Drop-On Rail Carriage for 95 mm Rails, 4.00" Long	https://www.thorlabs.com/thorproduct.cfm?partnumber=XT95RC4	\$143	1	
Mirror mount with smooth cage rod bores	KCB2EC	https://www.thorlabs.com/thorproduct.cfm?partnumber=KCB2EC	\$268	1	
Tube holder	LPC01	https://www.thorlabs.com/thorproduct.cfm?partnumber=LPC01	\$45	1	
Cage assembly Rod	ER6-P4	https://www.thorlabs.com/thorproduct.cfm?partnumber=ER6-P4	\$36	3	
Table clamp	XE25CL2	https://www.thorlabs.com/thorproduct.cfm?partnumber=XE25CL2	\$14	10	
Slip-on lens tube cover	SC1L24	https://www.thorlabs.com/thorproduct.cfm?partnumber=SC1L24	\$11	1	
Slip-on lens tube cover	SC600	https://www.thorlabs.com/thorproduct.cfm?partnumber=SC600	\$40	1	
Post holder	PH3-P5 - Ø1/2"(Pack of 5)	https://www.thorlabs.com/thorproduct.cfm?partnumber=PH3-P5	\$46	5	
Optical post	TR3-P5(Pack of 5)	https://www.thorlabs.com/thorproduct.cfm?partnumber=TR3-P5	\$28	2	
Broadband windows	WG11010-B - Ø1" N-BK7 Broadband Precision Window, AR Coated	https://www.thorlabs.com/thorproduct.cfm?partnumber=WG11010-B	\$103	2	
Adapter with external SM1 threads and internal SM2 threads	SM1A2	https://www.thorlabs.com/thorproduct.cfm?partnumber=SM1A2	\$28	1	
Cage plate	CP08	https://www.thorlabs.com/thorproduct.cfm?partnumber=CP08	\$23	1	
Scanning mirror set	6SD11502, Novanta	Quote	\$5,600	1	
Pockels cell	Model 302RM Driver	Quote	\$5,725	1	
Pockels cell	Model 350-80-LA-02 KD*P Series E-O Modulator for use in the	Quote	\$5,500	1	
Pockels cell	BK Option used to min. piezo-electric resonances for Model 350	Quote	\$850	1	
Pockels cell	Model 103 Alignment Tool	Quote	\$75	1	

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Lens Assemblies					
Aero-Duster	CA4-US	https://www.thorlabs.com/thorproduct.cfm?partnumber=CA4-US	\$26	2	
Lens Tube Spacer	SM1S20 - SM1 Lens Tube Spacer, 2" Long	https://www.thorlabs.com/thorproduct.cfm?partnumber=SM1S20	\$17	1	
Andustble lens tube	SM2V05	https://www.thorlabs.com/thorproduct.cfm?partnumber=SM2V05	\$55	1	
Lens Tubes	SM2L10	https://www.thorlabs.com/newgrouppage9.cfm?objectgroup_id=11111	\$35	3	
Lens Tubes	SM2L30	https://www.thorlabs.com/newgrouppage9.cfm?objectgroup_id=11111	\$35	2	
Lens Tubes	SM2L05	https://www.thorlabs.com/newgrouppage9.cfm?objectgroup_id=11111	\$35	1	
Lens Tubes	SM2L15	https://www.thorlabs.com/newgrouppage9.cfm?objectgroup_id=11111	\$35	1	
Lens Tubes	SM2L20	https://www.thorlabs.com/newgrouppage9.cfm?objectgroup_id=11111	\$35	1	
Lens Tubes	SM1L15	https://www.thorlabs.com/newgrouppage9.cfm?objectgroup_id=11111	\$17	2	
Lens Tubes	SM1L20	https://www.thorlabs.com/newgrouppage9.cfm?objectgroup_id=11111	\$18	4	
Spanner Wrench	SPW604 - Spanner Wrench for SM2-Threaded Retaining Rings	https://www.thorlabs.com/thorproduct.cfm?partnumber=SPW604	\$52	1	
Optical lens excitation path	LB1199-B	https://www.thorlabs.com/thorproduct.cfm?partnumber=LB1199-B	\$55	1	
Optical lens excitation path	ACT508-200-B	https://www.thorlabs.com/thorproduct.cfm?partnumber=ACT508-200-B	\$157	2	
Optical lens excitation path	ACT508-750-B	https://www.thorlabs.com/thorproduct.cfm?partnumber=ACT508-750-B	\$157	2	
Optical lens emission path	LA1384-A	https://www.thorlabs.com/thorproduct.cfm?partnumber=LA1384-A	\$46	1	
Optical lens emission path	LB1607-A	https://www.thorlabs.com/thorproduct.cfm?partnumber=LB1607-A	\$55	1	
Optical lens emission path	ACL25416U-A	https://www.thorlabs.com/thorproduct.cfm?partnumber=ACL25416U-A	\$32	2	
Optical lens excitation path	KPC070AR.16	https://www.newport.com/p/KPC070AR.16	\$104	1	

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Microscope Head					
Machine shop	Machining the microscope pieces		\$6,670	1	
Black anodization of microscope parts	Hillock anodization	https://www.hillockanodizing.com/	\$500	1	
Nikon 16X objective, and thread adapter	N16XLWD-PF - 16X Nikon CFI LWD Plan Fluorite Objective, 0	https://www.thorlabs.com/thorproduct.cfm?partnumber=N16X	\$7,824	1	
Piezoelectric objective collar	P-725.xCDE1S PIFOC	https://www.pi-usa.us/en/products/more-products/nanopositioning	\$16,021	1	
Silicon putty	TG-NSP50-1LB	https://www.digikey.com/en/products/detail/t-global-technolog	\$61	1	
Connection cable for PMT gain		https://www.mouser.com/ProductDetail/Belden-Wire-Cable/8-	\$242	1	
Cable connector	Neutrik NC4MX	https://www.markertek.com/product/nc4mx/neutrik-nc4mx-4-	\$5	2	
Drop-on rail carriage	XT95RC2	https://www.thorlabs.com/thorproduct.cfm?partnumber=XT95	\$101	3	
Drop-on rail carriage	XT95RC3	https://www.thorlabs.com/thorproduct.cfm?partnumber=XT95	\$122	1	
Aluminum breadboard	MB12	https://www.thorlabs.com/thorproduct.cfm?partnumber=MB12	\$172	1	
Mounting base	BA2	https://www.thorlabs.com/thorproduct.cfm?partnumber=BA2#	\$8	4	
Mounting base	BA1	https://www.thorlabs.com/thorproduct.cfm?partnumber=BA1#	\$6	5	
Mounting base	BA1S	https://www.thorlabs.com/thorproduct.cfm?partnumber=BA1S	\$6	5	
Cage plate	CP02/M	https://www.thorlabs.com/thorproduct.cfm?partnumber=CP33	\$20	1	
Angle bracket	Angle Bracket, 90°, 1/4-20 (M6) Slots, 1 in. Spacing 360-90	https://www.newport.com/p/360-90	\$100	1	
Hardman Double/Bubble Epoxy		https://www.amazon.com/Hardman-Double-Bubble-Setting-m	\$18	1	
Photomultiplier tube module(PMT)	Hamamatsu H16201-40	https://www.hamamatsu.com/eu/en/product/optical-sensors/p	\$4,355	2	
PMT transimpedance amplifier	TIA60	https://www.thorlabs.com/thorproduct.cfm?partnumber=TIA60	\$1,151	2	
Single band band-pass filter	FF01-525/45-32, AVR Optics	Quote	\$582	1	
Single band band-pass filter	FF01-600/52-32, AVR Optics	Quote	\$582	1	
Dichroic beamsplitter	FF562-DI03-40X52, AVR Optics	Quote	\$812	1	
680 nm blocking short-pass filter	FF01-680/SP-50, AVR Optics	Quote	\$5,760	1	
Dichroic beamsplitter	FF665-DI02-40X55, AVR Optics	Quote	\$1,766	1	
Screws	4-40 X 5/16 Socket Cap Screw Stainless Steel	https://www.mfsupply.com/Socket-Head-Cap-Screws-p/sc40	\$19	1	
Screws	4-40 Stainless Steel Nylon-Tipped Setscrew, 1/8" Long	https://www.thorlabs.de/thorproduct.cfm?partnumber=SS4N0	\$15	1	
Screws	8-32 X 3/8 Socket Cap Screw Stainless Steel	https://www.mfsupply.com/Socket-Head-Cap-Screws-p/sc80	\$25	1	
Screws	stainless steel socket head screw, 4-40 Thread Size, 3/4 inches	https://accu-components.com/us/imperial-cap-head-screws/2	\$1	12	
Screws	4-40, undercut, 3/16 inch screws	https://www.amazon.com/Coarse-Thread-Machine-Phillips-U	\$21	1	
Screws	4-40 5/16 inch, socket cap screws	https://www.amazon.com/Button-Socket-Screw-Allen-Thread	\$11	1	
Screws	8/32, 1/2 inch, socket cap screws	https://boltdepot.com/Product-Details?product=4999&qty=1&	\$7	1	
Screws	8/32, 3/8 inch, undercut screws	https://www.tannerbolt.com/8c37mfupz-8-32-x-3-8-undercut-	\$5	1	
Screws	4-40 thread, 1/8 inch screws	https://accu-components.com/us/imperial-cap-head-screws/2	\$1	12	
Screws	4-40, 1/2 inch, socket cap screws	https://boltdepot.com/Product-Details?product=4986&qty=1&	\$7	1	
Screws	Ultra low-profile hex socket cap screw	https://us.misumi-ec.com/vona2/detail/110302280540/?Hissu	\$4	20	
Wire	28 AWG	https://www.digikey.com/en/products/detail/remington-industr	\$52	1	
Protected silver mirror	PF30-03-P01 - Ø3" Protected Silver Mirror	https://www.thorlabs.com/thorproduct.cfm?partnumber=PF30	\$402	1	
Precision kinematic mirror mount	KS3	https://www.thorlabs.com/thorproduct.cfm?partnumber=KS3#	\$224	1	
Protected silver elliptical mirror	PFE20-P01	https://www.thorlabs.com/thorproduct.cfm?partnumber=PFE2	\$184	2	
Retaining Ring	SM2RR	https://www.thorlabs.com/thorproduct.cfm?partnumber=SM2R	\$8	1	

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Electronics					
Multimeter	Fluke 117	https://www.fluke.com/en-us/product/electrical-testing/digital-	\$290	1	
Circuit enclosure box	EG6	https://www.acopian.com/box-gb.html	\$60	1	
Banana Patch Cord		https://www.thorlabs.com/thorproduct.cfm?partnumber=T131	\$11	10	
Coaxial Cable	60"	https://www.thorlabs.com/thorproduct.cfm?partnumber=2249	\$22	15	
Power supply	Instek GPD-3303D Power Supply, Triple Output, 2x 30 V / 3 A,	https://www.testequity.com/product/17670-2-GPD-3303D?ga	\$379	1	
Power supply	Keysight E3630A DC Linear Power Supply, Triple Output, 6 V /	https://www.testequity.com/product/12379-1-E3630A?gad_sc	\$1,173	2	
Digital panel meter	DMS-20PC-1-FM-C	https://www.tti.com/content/tiinc/en/apps/part-detail.html?par	\$65	2	
Potentiometer	3500S-2-503L	https://www.digikey.com/en/products/detail/bourns-inc./3500S	\$85	2	
Resistor	12K	https://www.digikey.com/en/products/detail/yageo/MFR-25FT	\$1	2	
Toggle switch	ST141D00	https://www.digikey.com/en/products/detail/e-switch/ST141D0	\$6	2	

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Computer & Control & Rack					
vDAQ (DAQ system from Vidrio 16k) + Optimized PC for ScanImage (3.5k) + bundle	Vidrio technologies	https://www.mbfbioscience.com/products/scanimage/	\$18,653	1	
Rack Total (individual items below)	Jacobson-associates	Quote	\$2,400	1	
10 Series Vertical Frame	XFR-267019	Quote	\$857	1	
Locking 350# Caster	HW-450-LK	Quote	\$33	4	
40U Mounting Rails	XMA-70 - Mounted on the Front	Quote	\$87	1	
40U Mounting Rails	XMA-70 - Mounted at B - 25.125"	Quote	\$87	1	
40U Mounting Straps	XMA-70 - Mounted at A - 20.062	Quote	\$85	1	
48" Vertical PDU	WM-481015-PC	Quote	\$125	1	
13U Formed Steel Filler Panel - Solid	XPN-2219	Quote	\$74	1	
2U Retractable Keyboard Tray	RKT-0319-S	Quote	\$497	1	
1U Heavy Duty Shelf - Solid	XES-2019 - Mounted in the Front Opening at U21 MOUNT FF	Quote	\$68	1	
1U Heavy Duty Shelf - Solid	XES-2019 - Mounted in the Front Opening at U22 MOUNT FF	Quote	\$68	1	
1U Heavy Duty Shelf - Solid	XES-2019 - Mounted in the Front Opening at U27 MOUNT FF	Quote	\$68	1	
Full Depth Bottom Panel - Solid	XBP-2619	Quote	\$82	1	

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Miscellaneous					
Fluorescent beads		https://www.bangorlab.com/	\$244	1	
Low melting point agarose	YPD agar	https://www.sigmaaldrich.com/	\$111	1	
Fluorescein	46955-250MG-F	https://www.sigmaaldrich.com/	\$36	1	
Cover slips	BI0094A	https://www.sigmaaldrich.com/	\$10	1	
Microscope slides	CLS294875X25-72EA	https://www.sigmaaldrich.com/	\$35	1	
Calibration standard	R1L3S3	https://www.thorlabs.com/	\$273	1	
Fluorescent slide	FSK5	https://www.thorlabs.com/	\$20	1	
Black Aluminium Foil Tape	AT205-1.0	https://www.thorlabs.com/	\$35	1	
Safety Goggles	NoIR ML1 Filter for Multiple Laser Diodes	https://safetyglass.com/	\$190	3	