

Materials List for:

Video-rate Scanning Confocal Microscopy and Microendoscopy

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Materials

Name	Company	Catalog Number	Comments
515 nm Band Pass Filter	Chroma Technology Corp.	HQ515/50M	46 FWHM
Achromatic Doublet Lens 25.4mm Dia. x 50mm FL, MgF2 Coating	Edmund Scientific	NT49-766	
Achromatic Doublet Lens 25.4mm Dia. x 76.2mm FL, MgF2 Coating	Edmund Scientific	NT49-768	
Achromatic Doublet Lens 25.4mm Dia. x 88.9mm FL, MgF2 Coating	Edmund Scientific	NT49-769	
Achromatic Doublet Lens 50mm Dia. x 300mm FL, MgF2 Coating	Edmund Scientific	NT45-179	
8 kHz R High Frequency Optical Scanner	Electro-Optical Products Corporation (EOPC)	SC-30	8 kHz
AGC Driver	Electro-Optical Products Corporation (EOPC)	ACG:8K	
H7422-PA Photosensor Module	Hamamatsu Corp.	H7422-PA	Current limiting recommended
M9012 Power Supply	Hamamatsu Corp.	M9012	For use with H7422-PA
HC PL APO CS Objective	Leica Microsystems	11506284	10x/0.40
Solios eA/XA Framegrabber Card	Matrox	Solios eA/XA	MIL software required; –M interconnects recommended
12V Power Supply	Meanwell	LPV-100-12	+12V, 8.5A
5x Microscope Objective Lens	Newport Corp.	M-5X	0.10 NA, 25.4 mm Focal Length
Coherent Image Fiber	Sumitomo Bakelite Co., Ltd.	8-30N	
1/4"-20 Cap Screw and Hardware Kit	Thorlabs Inc.	HW-KIT2	
100 µm Mounted Pinhole	Thorlabs Inc.	P100S	Ideal for building spatial filters
30 mm Cage Cube Clamp	Thorlabs Inc.	B6C	
30 mm Cage System Cube, 4-Way	Thorlabs Inc.	C4W	
406 nm, 5 mW, B Pin Code, SM Fiber Pigtailed Laser Diode, FC/PC	Thorlabs Inc.	LPS-406-FC	Product obsolete; replaced by LP405-SF10
5-Minute Epoxy, 1 Ounce	Thorlabs Inc.	G14250	
6 Axis Kinematic Optic Mount	Thorlabs Inc.	K6X	
8-32 Cap Screw and Hardware Kit	Thorlabs Inc.	HW-KIT1	
8-32 Setscrew and Hardware Kit	Thorlabs Inc.	HW-KIT3	
Adapter with External RMS Threads and Internal SM1 Threads	Thorlabs Inc.	SM1A4	
Adj. FC/PC and FC/APC Collimator, f = 2.0 mm, ARC: 400-600 nm	Thorlabs Inc.	CFC-2X-A	f = 2.0 mm

Adjustable Fiber Collimator Adapter, SM1 Threaded	Thorlabs Inc.	AD9.5F	
Aluminum Breadboard, 12" x 18" x 1/2"	Thorlabs Inc.	MB1218	1/4"-20 Threaded
Benchtop Laser Diode/TEC Controller	Thorlabs Inc.	ITC4001	1 A/96 W
DMLP 425 nm Long-Pass Dichroic Mirror	Thorlabs Inc.	DMLP425	
Kinematic Mount for 1" Optics	Thorlabs Inc.	KM100	
LD/TEC Mount for Thorlabs Fiber-Pigtailed Laser Diodes	Thorlabs Inc.	LM9LP	
Lens Mount for 18 mm Optics	Thorlabs Inc.	LMR18	One retaining ring included
Lens Mounts for 2" Optics	Thorlabs Inc.	LMR2S	With internal and external threading; retainer ring included
Mini Series Cage Assembly Rod, 6" Long, 4 mm, Qty. 1	Thorlabs Inc.	SR6	
1.0" Pedestal Pillar Post, 8-32 Taps, 1" Long	Thorlabs Inc.	RS1P8E	
1" Pillar Post Extension, Length=0.5	Thorlabs Inc.	RS05	
1" Pillar Post Extension, Length=0.75"	Thorlabs Inc.	RS075	
1" Protected Silver Mirror, 3.2 mm Thick	Thorlabs Inc.	ME1-P01	
1" SM1 Rotating Adjustable Focusing Element, L = 1"	Thorlabs Inc.	SM1V10	
2" Protected Silver Mirror, 3.2 mm Thick	Thorlabs Inc.	ME2-P01	
P100S - 100 μ m Mounted Pinhole	Thorlabs Inc.	P100S	
Polaris Low Drift 1" Kinematic Mirror Mount	Thorlabs Inc.	POLARIS-K1	Low drift
SM1 Lens Tube, L = 1"	Thorlabs Inc.	SM1L-10	One retaining ring included
SM1 Threaded 30 mm Cage Plate, 0.35" Thick	Thorlabs Inc.	CP02	
SM1 to M25 Optical Component Threading Adaptor	Thorlabs Inc.	SM1A24	External SM1 Threads and Internal M25.5x0.5 Threads
Small Beam Diameter Galvo System	Thorlabs Inc.	GVSM001	
Small Clamping Fork	Thorlabs Inc.	CF125	1/25" counterbored slot, universal
Spatial Filter System	Thorlabs Inc.	KT310	Pinhole sold separately
TE-Cooled Mount for 5.6 & 9 mm Lasers	Thorlabs Inc.	TCLDM9	
Vertical Bracket for Breadboards	Thorlabs Inc.	VB01	Each
Plan-Apochromat	Carl Zeiss, Inc.	1101-957	20x/0.75 NA