

Materials List for:

High Speed Sub-GHz Spectrometer for Brillouin Scattering Analysis

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Materials

Name	Company	Catalog Number	Comments
OPTICS			
VIPA (virtual image phase array)	LIGH MACHINERY		Quantity: 2
Bundle of Three 423 Linear Stages with SM-25 Micrometers	NEWPORT	423-MIC	Quantity: 1
SS Crossed-Roller Bearing Translation Stage, 0.5 in., 8-32, 1/4-20	NEWPORT	9066-X	Quantity: 1
Vernier Micrometer, 13 mm Travel, 9 lb Load Capacity, 50.8 TPI	NEWPORT	SM-13	Quantity: 1
Adjustable Width Slit	NEWPORT	SV-0.5	Quantity: 2
Compact Dovetail Linear Stage, 0.20 in. Z Travel, 1.57x1.57x1.38 in.	NEWPORT	DS40-Z	Quantity: 2
Slotted Base Plate, 25 or 40 mm to 65 mm Stage, 1.1 in. Range	NEWPORT	B-2B	Quantity: 2
Ø1/2" Optical Post, 8-32 Setscrew, 1/4"-20 Tap, L = 2", 5 Pack	THORLABS	TR2-P5	Quantity: 2
Ø1/2" Post Holders, Spring-Loaded Hex-Locking Thumbscrews, L = 2", 5 Pack	THORLABS	PH2-P5	Quantity: 1
Ø1/2" Post Holders, Spring-Loaded Hex-Locking Thumbscrew, L = 3", 5 Pack	THORLABS	PH3-P5	Quantity: 1
Imperial Lens Mount For 2" Optics, 8-32 Tap	THORLABS	LMR2	Quantity: 2
f=200.0 mm, Ø2" Achromatic Doublet, ARC: 400-700 nm	THORLABS	AC254-200-A	Quantity: 2
Kinematic Mount for up to 1.3" (33 mm) Tall Rectangular Optics, Right Handed	THORLABS	KM100C	Quantity: 2
Fixed Cylindrical Lens Mount, Max Optic Height: 1.60" (40.6 mm)	THORLABS	CH1A	Quantity: 2
f=200.00 mm, H=30.00 mm, L=32.0 mm, N-BK7 Plano-Convex Cylindrical Lens, Antireflection Coating: 350-700 nm	THORLABS	L1653L1-A	Quantity: 2
Right-Angle Post Clamp, Fixed 90° Adapter	THORLABS	RA90	Quantity: 1
Adapter with External C-Mount Threads and Internal SM1 Threads	THORLABS	SM1A9	Quantity: 1

Studded Pedestal Base Adapter, 1/4"-20 Thread	THORLABS	PB4	Quantity: 2
Spacer, 2" x 3", 1.000" Thick	THORLABS	Ba2S7	Quantity: 2
543 nm, f=15.01 mm, NA=0.17 FC/APC Fiber Collimation Pkg.	THORLABS	F260APC-A	Quantity: 1
SM1-Threaded Adapter for Ø11 mm collimators	THORLABS	Ad11F	Quantity: 1
Translating Lens Mount for Ø1" Optics, 1 Retaining Ring Included	THORLABS	LM1XY	Quantity: 1
Single Mode Patch Cable, 450 - 600 nm, FC/APC, 2 m Long	THORLABS	P3-460B-FC-2	Quantity: 1
1:1 Matched Achr. Pair, f1=30 mm, f2=30 mm, BBAR 400-700 nm	THORLABS	MAP103030-A	Quantity: 1
SM1 Lens Tube...length to adjust depend on CCD, we have 3.5 inches	THORLABS	SM1LXX	Quantity: 1
Base Adapters for Ø1/2" Post Holders and Ø1" Posts	THORLABS	BE1	Quantity: 8
Clamping Forks for Ø1/2" Post Holders and Ø1" Posts	THORLABS	CF125	Quantity: 8
HW-KIT5 - 4-40 Cap Screw and Hardware Kit for Mini-Series	THORLABS	HW-KIT5	Quantity: 1
D20S - Standard Iris, Ø20.0 mm Max Aperture	THORLABS	D20S	Quantity: 2
FOR ENCLOSURE			
25 mm Construction Rail, L = 21"	THORLABS	XE25L21	Quantity: 6
1" Construction Cube with Three 1/4" (M6) Counterbored Holes	THORLABS	RM1G	Quantity: 8
Right-Angle Bracket for 25 mm Rails	THORLABS	XE25A90	Quantity: 12
25 mm Construction Rail, L = 15"	THORLABS	XE25L15	Quantity: 4
25 mm Construction Rail, L = 9"	THORLABS	XE25L09	Quantity: 8
High Performance Black Masking Tape, 2" x 60 yds. (50 mm x 55 m) Roll	THORLABS	T743-2.0	Quantity: 1
Low-Profile T-Nut, 1/4"-20 Tapped Hole, Qty: 10	THORLABS	XE25T3	Quantity: 1
1/4"-20 Low-Profile Channel Screws (100 Screws/Box)	THORLABS	SH25LP38	Quantity: 1
60" (W) x 3 yds. (L) x 0.005" (T) (1.5 m x 2.7 m x 0.12 mm) Blackout Fabric	THORLABS	BK5	Quantity: 1
CAMERA, LASER and MICROSCOPE			
EMCCD camera	ANDOR	iXon Ultra 897	Quantity: 1
400 mW single mode green laser	LASER QUANTUM	torus 532	Quantity: 1
Research Inverted System Microscope	OLYMPUS	IX71	Quantity: 1