

Materials List for:

# Optical Recording of Suprathreshold Neural Activity with Single-cell and Single-spike Resolution

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## Materials

Name	Company	Catalog Number	Comments
Optical components are listed in order, starting from the laser			
Titan:Sapphire Laser	Coherent Inc.	Chameleon Ultra 2	High power output recommended (>2W at 900 nm)
Achromatic lens f = 30 mm	Thor labs	AC254-030-B	Anti-reflection (AR) coating for 650-1050 nm
Achromatic lens f = 100 mm	Thor labs	AC254-100-B	AR 650-1050 nm
lens f = 75 mm	Thor labs	LA1608-B	AR 650-1050 nm
lens f = 175 mm	Thor labs	LA1229-B	AR 650-1050 nm
Achromatic lens f = 300 mm	Thor labs	AC254-300-B	AR 650-1050 nm
Achromatic lens f = 100 mm	Thor labs	AC254-100-B	AR 650-1050 nm
Achromatic lens f = 100 mm	Thor labs	AC254-100-B	AR 650-1050 nm
Acousto-optical deflectors	Intraaction Corp	ATD 6510CD2	
Reflective diffraction grating	Newport	53-011R	100 grooves/mm for AODs with 65 MHz bandwidth and scan angle of 45 mrad
21.6 mm Brewster prisms	Lambda Research Optics Inc.	IBP21.6SF10	
Colored Glass	Schott	BG-39	
Dichroic mirror	Chroma Technology Corp	Z532RDC	
Photomultiplier modules	Hamamatsu	H9305-03	
DAC-ADC board	National Instruments	PCI-6115	
Oregon Green 488 Bapta-1 AM	Invitrogen	O-6807	