

Materials List for:

A Silicon-Tipped Fiber-Optic Sensing Platform with High Resolution and Fast Response

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Materials

Name	Company	Catalog Number	Comments
200 Proof Pure Ethanol	Koptec	V1001	
5 Channels Duplex CWDM	Fiber Store	5MDD-ABS-FSCWDM	
Butterfly Laser Diode Mounts	Tholabs	LM14S2	
CastAway CTD	Yellow Springs Instrument		
CTD	Seabird	SBE 19plus	
Current Meter	Nortek	Vector	
Data Acquisition Device	National Instruments	NIUSB4366	
Digital Oscilloscope	RIGOL	DS1204B	200 MHz 2 GSa/s
Diode Laser	Thorlabs	LM9LP	Wavelength: 632 nm
Fixed BNC Terminator Kit	Thorlabs	FTK01	
Function Waveform Generator	RIGOL	DG4162	160 MHz 500 GSa/s
High Precision Cleaver	Fujikura	CT-32	
High Reflection Dielectric Coating	Evaporated Coating INC (ECI)		Materials and structure of the coating are unknown
I-MON 512 Spectrometer	Ibsen Photonics	P/N: 1257110	
InGaAs Biased Detector	Tholabs	DET01CFC	FC/PC output:0-10V; Quantity: 2
Laser Diode	Qphonic	QFLD-405-20S	Wavelength: 405 nm
Laser Diode Current Controller	Tholabs	LDC 210C	1 A and 100 mA range
Laser Diode Temperature Controller	Tholabs	TEC 200C	Quantity: 2
Latex Examination Gloves	HCS		
Micro Slides	Corning Incorporated		
Narrow Linewidth DFB Laser	Eblana	EP1550-NLW-B06-100FM	Wavelength:1550 nm
Optical Fiber Fusion Splicer	Sumitomo electric industries, LTD	3822-2	
Optical Microscope and Monitor	Ikegami Tsushinki Company	PM-127	
Optical Spectrum Analyzer	Yokogawa	AQ6370C	wavelength range: 600-1700 nm
Polish Machine	ULTRA TEC	41076	
Post-mountable Irises	Thorlabs		Quantity: 2
Pump Laser	Gooch and Housego	0400-0974-SM	Wavelength: 980 nm
Si Amplified Photodetector	Thorlabs	PDA36A	Wavelength: 350-1100 nm

Silicon wafer	University Wafer		thickness: 10 μ m, 200 μ m, 75 μ m, 40 μ m
Single mode fiber	Corning	SMF-28	
Single Mode Fused Fiber Coupler	Thorlabs		Wavelength: 1550 nm
SM 125 interrogator	Micron Optics		
Submersible Aquarium Pump	Songlong	SL-403	
Superluminescent LED	Denselight Semiconductors	DL-BP1-1501A	wavelength range:1510-1590 nm
Syringe Pump	Cole Parmer	74905-02	
Travel Translation Stage	Thorlabs	LT1	
UV curable glue	Epoxy Technology	PB109077	
UVGL-15 Compact UV Lmap	UVP	P/N:95-0017-09	254/365 nm
Variable Optical Attenuators	Tholabs	M-VA/00016951 P/N: VOA50-APC	