

Materials List for:

A Random-displacement Measurement by Combining a Magnetic Scale and Two Fiber Bragg Gratings

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Materials

Name	Company	Catalog Number	Comments
ASE	OPtoElectronics Technology Co., Ltd.		1525nm-1610nm
computer	Thinkpad		win10
fiber cleaver/ CT-32	Fujikura		the diameter of 125
fiber optic epoxy /DP420	henkel-loctite		Ratio 2:1
interrogator	BISTU		sample rate:17kHz
motor driver	Zolix		PSMX25
optical circulator	Thorlab		three ports
optical couple	Thorlab		50:50
optical spectrum analyzer/OSA	Fujikura		AQ6370D
permanent magnet	Shanghai Sichi Magnetic Industry Co., Ltd.		D5x4mm
plastic shaped pipe	Topphotonics		
power source	RIGOL		adjustable power
single mode fiber	Corning		9/125um
Spring	tengluowujin		D3x15mm
stepper motor controller			JF24D03M