



## LITEMIC™ 3120

### Optical Microphone for Noise Cancelling Communications

Non-metal, EMI/RFI immune fiber optic microphone, excellent for directional noise cancelling applications.

#### FEATURES

- ▶ Clear, quality communications
- ▶ Ideal for directional applications
- ▶ Inherent noise-cancelling capability
- ▶ Completely passive sensor, absolute EMI/RFI immunity
- ▶ Patented MEMS microphone technology
- ▶ Quick mounting kit with ultra flexible boom
- ▶ Standard analog output
- ▶ High reliability and environmental stability
- ▶ Plug-and-play system
- ▶ Cost-effective, long-term solution

#### TECHNICAL SPECIFICATIONS

Polar Pattern	Uni-directional
Frequency Response	50-10,000 Hz
Directivity Index	6 dB
Maximum Acoustic Pressure	114 dB SPL
Total Harmonic Distortion	<1% at 84 dB SPL
Supply Voltage	8-15 V DC
Current Drain (max.)	< 80 mA
Operating Temperature	-10 to +60 °C (14 to +140 °F)
Storage Temperature	-10 to +60 °C (14 to +140 °F)
Humidity - 1000 hours	Up to 95% RH at 40 °C
MTBF	>100,000 hours
Microphone Head Material	Delrin
Base Mount Dimensions L/W/H	39/29/16 mm
Weight	5 g
Optical Cable Length	10 m

#### APPLICATIONS

- ▶ Interactive communications in noisy environments
- ▶ Speech studies in fMRI
- ▶ Speech studies requiring directional noise cancelling in hazardous environments
- ▶ Communications in interventional MRI environments



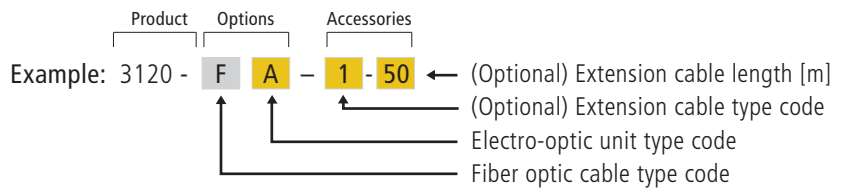
## LITEMIC™ 3120 Single Channel System Kit




Complete, versatile, cost-effective solution




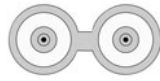
Optoacoustics' LITEMIC 3120 system is comprised of our advanced fiber optic microphone, electro-optic control unit, audio cable with BNC connector, DC power supply, and a protective storage case.

### PRODUCT ORDERING GUIDE

Use the matrix below to select options and accessories for your order.



Options	Fiber Optic Cable Type	Electro-Optic Unit Type	
Item	Kevlar reinforced black PVC Ø 3 mm	EOU 100 Single Channel	EOU 200 Single Channel
Code	<b>F</b>	<b>A</b>	<b>B</b>
			

Accessories	Extension Cable Type (Specify length from 10-100 m)			
Item	Outdoor, Milspec Ø 5 mm	Outdoor, Polyamide Ø 5.1 mm	Indoor, Rugged Ø 3.0 mm	Indoor, Zip Cord Ø 3.0 x 2 mm
Code	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>
				



SOUND SOLUTIONS FROM LIGHT TECHNOLOGY

Optoacoustics is a leading manufacturer of high performance, optical fiber-based sound and vibration sensors. Each of our products combines the natural intelligence of optics and acoustics to meet technical performance demands which cannot be addressed by conventional sensing solutions. Optoacoustics' pioneering technology is protected by over 20 international patents.

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