



LITEMIC™ 3130 (FOMRI-I)

Noise Cancelling Optical Microphone for MRI Communications

Non-metal, EMI/RFI immune fiber optic microphone, ideally suited to magnetic resonance imaging (MRI) environments.

FEATURES

- ▶ Clear, quality communications during MRI scans
- ▶ No effect on MRI imaging
- ▶ 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	Bi-directional
Frequency Response	50-20,000 Hz
Directivity Index	4.8 dB
Maximum Acoustic Pressure	130 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	0 to +60 °C (32 to +140 °F)
Humidity - 1000 hours	Up to 95% RH at 40 °C
MTBF	>100,000 hours
Microphone Head Material	Polycarbonate
Housing Dimensions L/W/H	60/25/25 mm
Weight	160 g
Gooseneck Boom Length	300 mm
Optical Cable Length	10 m

APPLICATIONS

- ▶ Interactive patient communications during fMRI scan procedures
- ▶ Speech studies in fMRI
- ▶ Communications in auditory fMRI
- ▶ Physician and radiologist communications in interventional MRI environments



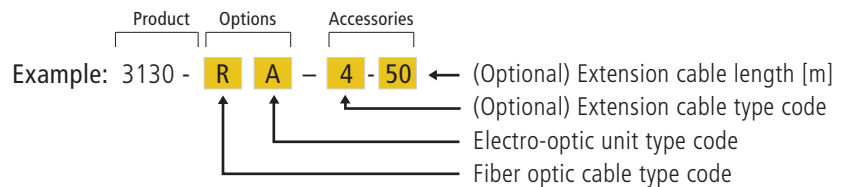
LITEMIC™ 3130 Single Channel System Kit

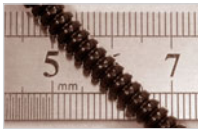



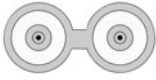

Complete, versatile, cost-effective solution

Optoacoustics' LITEMIC 3130 system is comprised of our advanced fiber optic microphone, electro-optic control unit, audio cable with BNC connector, quick mounting kit with ultra flexible gooseneck boom, DC power supply, and a protective storage case.

PRODUCT ORDERING GUIDE

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



	Fiber Optic Cable Type		Electro-Optic Unit Type	
Item	Black Polyamide Ø 5.1 mm	Milspec Ø 5 mm	EOU 100 Single Channel	EOU 200 Single Channel
Code	R	M	A	B
				
Accessories	Extension Cable		Sanitary Pop Screens	
Item	Indoor Zip Cord (From 10 to 50 m) Ø 3.0 x 2 mm		Clip-On, Disposable 100 Pack	
Code	4		5	
				



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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