



IEPE-MIC-14604B is a 1/2" IEC 61094-4 pressure-field IEPE measurement microphone. It meets the stringent standards not found in consumer or even professional audio products.

Diameter	1/2"
Sensitivity	30 mV/Pa
Polarization Voltage	0 V
Frequency Range	10~16000 Hz
Frequency Response Characteristic	Pressure Field
Dynamic Range	20~142 dB
Capacitance	15 pF
Ambient Temperature Coefficient	0.02 dB/ °C
Dimensions	Type WS2P
Output Impedance	<50Ω
Output Interface	BNC
Max. Output Voltage (Peak)	AC 7V
Power Supply Voltage (Constant Current Source)	24V~48V
Operation Current	2~20mA
Operation Temp. Range	-20 °C~70 °C
BNC-to-BNC Cable	Included
Calibration Certificate with Sensitivity and Frequency Response	Included



Note: When used in conjunction with an IEPE data acquisition device, the dB SPL measurement range will be determined by the sensitivity and measurement range of the microphone as well as the full-scale input voltage and Signal-to-Noise ratio of the IEPE data acquisition device. For example, if the full-scale measurement range of the IEPE data acquisition device is 250 mV, then the maximum dB SPL measurable would be: $20 \cdot \log_{10}((250/1.414)/30/(20 \times 10^{-6})) \approx 109$ dB, where 1.414 is used to convert peak value to RMS value, and 20×10^{-6} Pa is the 0 dB SPL reference in air. If the IEPE data acquisition device has multiple full-scale voltage ranges (e.g. VT IEPE-2G05): 250mV, 500mV, 1V, 2.5V, 5V, 10V, then the maximum dB SPL measurable would be 109dB, 115dB, 121dB, 129dB, 135dB and 141dB, respectively.