



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

Diameter	1/2"
Sensitivity	50 mV/Pa
Polarization Voltage	0 V
Frequency Range	10~20000 Hz
Frequency Response Characteristic	Free Field
Dynamic Range	17~140 dB
Capacitance	18 pF
Ambient Temperature Coefficient	0.015 dB/ °C
Dimensions	Type WS2F
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 dBSPL 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 dBSPL measurable would be: $20 \cdot \log_{10}((250/1.414)/50/(20 \times 10^{-6})) \approx 105$ dB, where 1.414 is used to convert peak value to RMS value, and 20×10^{-6} Pa is the 0 dBSPL 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 dBSPL measurable would be 105dB, 111dB, 117dB, 125dB, 131dB and 137dB, respectively.