# Measurement Microphones: 10 Under \$1,000

oday's room measurement tools are easier to use than ever — even built into digital consoles and smart phones, making what was once drudgery into a convenient, straightforward operation. While the software may be built into or included in your tools at hand (or readily available software packages), all you may need is a USB preamp/ interface, a laptop and/or an iPad and you're ready to go. Well, almost, as an uncolored omnidirectional microphone with a flat frequency response is a must for serious analysis work. With that in mind, we checked out a few affordable offerings and found a wide selection to suit any application or budget.



# EMX 7150 Measurement Mic

1/4" measurement microphone features a very accurate frequency response combined with the ability to measure sound pressure levels of up to 146 dB. It operates at standard 12 to 52 VDC phantom power available on most professional computer interfaces and mic preamplifiers. Powered from just 12 Volts (5 mA), the power-saving EMX-7150 is ideal for use with wireless transmitters, yet still provides a wide 135 dB SPL range. The EMX-7150's mechanically robust design (with its stainless steel body and state of the art, watertight Neutrik XLR connector) is well-suited for harsh

environments, such as open-air sound reinforcement measurements. Each microphone comes with individual calibration data as proof of its superb performance.



**Featured Listing** 

Frequency Range: 10 Hz to 20k Hz Sensitivity: > 6mV/Pa typ.

Dynamic Range: ~30 to >140 dB SPL

Max SPL: 146 dB typ. (@ 3% distortion

Dimensions: 0.75" diameter; 6" length

Extras: Calibration chart and calibration

data files included: IEC 61672 Class 1 frequency response (Note: not a Class 1

with 48V of phantom power)

**Acoustic Port Diameter: 1/4"** 

- Sound Power and Soundfield **Analysis**

Weight: 3 ounces

microphone)

- Industrial Acoustics
- Room Acoustics Analysis
- Sound Reinforcement
- Real Time Analyzing

For more information, contact www.isemcon.com or 1-877-309-1002

#### AudioControl CM-10

Pattern: Omnidirectional Response: 20 Hz - 20 kHz (±3

dB)

Max SPL: 136 dB **Sensitivity:** Not stated Self-Noise: Not stated Powering: 12 VDC phantom **Termination:** XLR-M Notes: Calibrated internal

preamp

Street Price: \$145



# audiocontrol.com

### Audix TM1PLUS

Pattern: Omnidirectional Response: 20 Hz - 20 kHz (±2

Max SPL: 130 dB Sensitivity: 6 mV/Pa Self-Noise: 28 dBA

Powering: 24-48 VDC phantom **Termination:** XLR-M

Notes: Includes calibration data

Street Price: \$399



audixusa.com

#### beyerdynamic MM1

Pattern: Omnidirectional Response: 20 Hz - 20 kHz Max SPL: 122 dB Sensitivity: 15 mV/Pa Self-Noise: 26 dBA

Powering: 12 - 48 VDC phan-

**Termination:** XLR-M Notes: Includes measured frequency response curve Street Price: \$199



 $north\hbox{-}america. beyer dynamic.com$ 

### Earthworks M23

Pattern: Omnidirectional Response: 9 Hz - 23 kHz (+1/-

Max SPL: 142 dB Sensitivity: 34 mV/Pa Self-Noise: 20 dBA Powering: 48 VDC phantom **Termination:** XLR-M **Notes:** Includes printed

frequency response chart Street Price: \$499



earthworksaudio.com

# Josephson C550H

Pattern: Omnidirectional Response: 20 Hz - 20 kHz (±2

Max SPL: 135 dB Sensitivity: 10 mV/Pa Self-Noise: 30 dBA Powering: 15 - 48 VDC

phantom

**Termination:** XLR-M

Notes: Individually calibrated C555H also avail.

Street Price: \$440



josephson.com

### MicW M416

Pattern: Omnidirectional Response: 20 Hz - 20 kHz (±3

Max SPL: 130 dB Sensitivity: 30 mV/Pa **Self-Noise:** 30 dBA

Powering: 48 VDC phantom **Termination:** XLR-M Notes: 1/4" capsule Street Price: \$239



mic-w.com

# NTI Audio M4261

Pattern: Omnidirectional Response: 5 Hz - 20 kHz Max SPL: 142 dB Sensitivity: 16 mV/Pa Self-Noise: 27 dBA

Powering: 48 VDC phantom **Termination:** XLR-M Notes: 1/4" capsule Street Price: \$510



**PreSonus PRM1** 

Pattern: Omnidirectional Response: 20 Hz - 20 kHz Max SPL: 132 dB

Sensitivity: 14 mV/Pa Self-Noise: 26 dBA **Powering:** 9 - 52 VDC phantom

**Termination:** XLR-M **Notes:** Recommended for

use with PreSonus StudioLive

mixers

Street Price: \$99



### Studio Six Digital iTestMic 2

Pattern: Omnidirectional Response: 20 Hz - 20 kHz

(±3 dB)

Max SPL: Switchable 26-96 and 48-120 dBA

Sensitivity: n/a Self-Noise: Not stated Powering: Via iOS device **Termination:** Apple iOS

Lightning port Notes: Designed to interface with iPad/iPhones

Street Price: \$229



studiosixdigital.com