

RTA Microphone Manual

M241-S

Appearance



Note: There may be differences between different hardware versions.

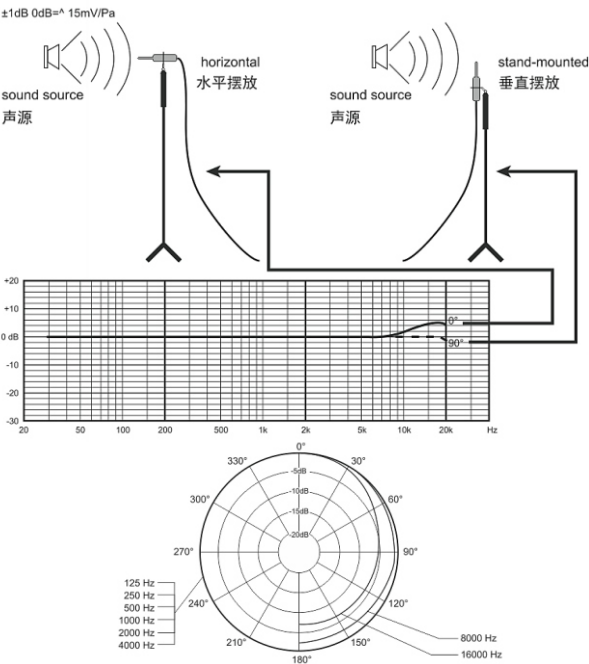
Application Scenarios

Used in speeches, choruses, sound testing and PA system calibration.

Instructions

1. Acts as an ideal spectrum analyzer, allowing frequency response and loudspeaker sound pressure levels to be monitored. It is compact and can be installed unobtrusively.
2. The linear housing and remote installation of the microphone have very low impact on the sound field, which can avoid the increase of high-frequency sound pressure.
3. Receive accurate linear frequency response in a diffuse sound field.

Performance

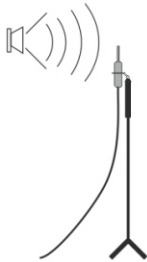


Installation

Using a standard XLR cable, this device can be connected to a microphone input providing 9-48v phantom power.

When installing this test microphone, make sure there are no large objects attached to the microphone to avoid affecting the sound field.

When frequencies are higher than 10KHz, such as when sound is received directly from the front, a slight pressure build-up will occur, which may cause the maximum gain at 20KHz to increase by 3dB. The lower frequency polar pattern is completely omnidirectional. Therefore, when testing speakers and other sound sources with high-pitched sounds, the device must be placed at a 90° position of the sound source, so that the measurement of frequency reception above 10KHz is absolutely linear.



Parameters

Type	SM241-S	Open Circuit Voltage (1KHz)	15mV/Pa(-36.5)±1dB
Conversion Method	Back pole type	MAX SPL (@f=1Khz,K=1%, RL=3.3KΩ)	121dB/SPL
S/N	>71dB	Nominal impedance	>3.3KΩ
Directivity	Omnidirectional	Working Principle	Pressure type
Sound Field	Diffused field calibration	A-Weighted Equivalent SPL	≈26dB (A)
Output	Electronic balance	Frequency Response range	20Hz-20KHz
Working current	≈2mA	Power Supply	9-48V Phantom power
Weight	97g	Size	L=155mm / R=19mm

Files

This device comes with a sound Measurement Calibration File (Electronic Version). Please download it from the product website or consult your dealer to obtain it.

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