



Qsources

Precision Acoustics

INFRA-QSOURCES

Qohm²

MONOPOLE
OMNI-DIRECTIONAL SOUND SOURCE



Qohm2 is a monopole omni-directional source which offers a solution to take measurements of room acoustics, reverberation and speech transfer measurements. This solution is perfect for assignments related to the sound quality of buildings such as concert halls, theatres etc. The product offers a lot of benefits compared to currently marketed speakers as its very small, lightweight and is highly accurate at a maximum sound power level of 108 dB.



Extreme lightweight

By far the lightest omni-directional sound source with a weight of only 1.3kg.



Compact size

With a size of 107mm diameter and a height of 285mm. Includes a tripod & soft carry case



Wide frequency range

1/3 octaves: 50-16000 Hz
Broadband high output: 108 dB Lw
High level LF output at 50Hz: 97 dB Lw



Work efficiency

Measurements can be taken easily by one single person with a fast set up.



Highest level specification

Omni directionality and spectrum are exceeding the standards:
ISO 3382
ISO 16823

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SPECIFICATIONS*

Description	Monopole omni-directional sound source
Weight	1.3 kg
Broadband high output	108 dB Lw
Frequency range in third octave bands	50-16000 Hz
Height	285mm
Diameter	107mm
Wide range frequency	50-16000 Hz (third octave)
Omni directionality (ISO 16283)	+2 dB from 100-5600Hz
Max. Sound power level	108 dB Lw, 4 minutes** 98 dB Lw, 15 minutes**
Maximum sound power level at 50Hz	83 dB Lw, 2 minutes**
Output level stability	better than 0.5dB: during 10 minutes at 101 dB**
Typical Power requirement	200 Watt RMS to 4 Ohm***
Temperature Protection	✓
Power overload Protection	✓
Main Application area	Performance site , room acoustics
Main Application examples	Music / recording studio, Theatre, Church
Number of Speakers	2
Seperate subwoofer needed	no
Tripod Included	✓
Soft transportation case included	✓
Qualitative, Robust Chassis material	✓
Industry Standards	ISO 140 / 3382 / 16283 / 354 / DIN52210 / ASTM E2235/

POTENTIAL APPLICATION AREAS

Building acoustic	✓
Material tests	✓
Road-Railway infrastructure	✓
Aerospace	✓
Marine	✓
Military	✓

MEASUREMENT TECHNIQUES

Room + Hall acoustics	✓
Reverberation	✓
Speech transfer measurment	✓
On-site machinery sound power	✓
Barrier performance measurement	✓

*These specifications may be adapted if necessary to improve the quality.

**When driven with Qam generated low crest factor pink noise at 22 Celsius ambient temperature or lower.

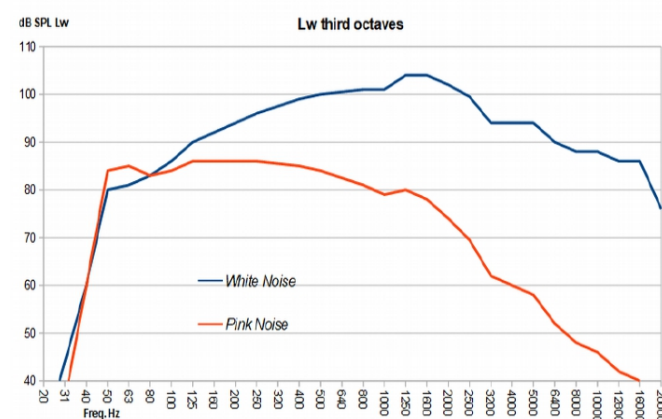
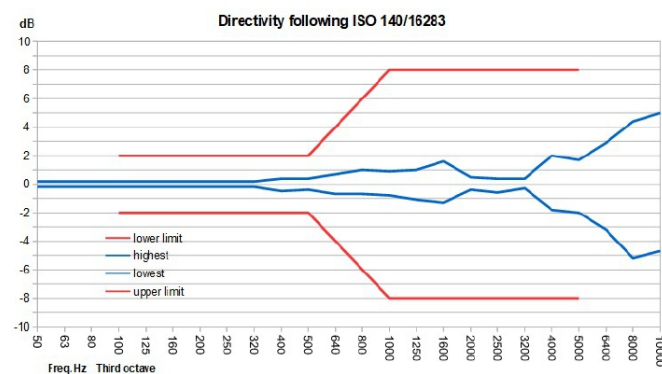
*** For maximum performance a dedicated power amplifier type Qam is available from Infra-Qsources

*** Range in free sight. The range can be influenced by metal structures.

Legend:

✓ = Intended application

✓ = Possible application



PART OF:



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