Qsources

Ultra Light

INFRA-QSOURCES

Qohm

LIGHTWEIGHT
OMNI-DIRECTIONAL SOUND SOURCE

By using an omni-directional source, users don't have to place the speaker into multiple positions and take multiple measurements as it allows to uniformly radiate sound in all directions. The measurement can be conducted very fast and accurately at high broadband output levels (122 dB Lw for Qohm).
Another advantage of using Qohm is that no subwoofers are needed and it offers the highest quality in material within the smallest dimensions and extreme lightweight. This means that the product can easily be taken on-site by only one single consultant. Qsources Qohm sound sources are a must for every acoustic industry professional who wants to perform acoustic tests of rooms to make recommendations on placement of absorption materials creating the correct acoustic balance or to test the acoustical properties of a building materials.
Qsources Qohm sound sources also enable to perform acoustic tests related to sound propagation between rooms such as e.g. transmission loss testing of insulation or measuring the Absorption coefficient or reverberation time. Qohm has been designed to fulfil ISO 140-3 Annex C (Laboratory measurements), ISO 140-4 Annex A (Field measurements) and the ISO 3382-1 Annex A (Reverberation Time measurements).
The Qohm sound source has been designed to use with Qam Power Amplifier for guaranteeing optimal power output without damaging the speaker.

Extreme lightweight

By far the lightest full frequency range source with a weight of only 3.1 kg.

Compact size

With a size of 26cm diameter, including a compact tripod and light soft carry case

Wide frequency range

1/3 octaves: 50-16000 Hz
Broadband high output: 122 dB Lw
High level LF output at 50Hz: 97 dB Lw

Work efficiency

Measurements can be taken easlily by one single person with a fast set up,

Highest level specification

Omnni directionality and spectrum are exceeding the standards:
ISO 140
ISO 3382
ISO 16823

www.Qsources.be

Ketelwinning 38, 3293 Diest, Belgium - BTW/MWST/VAT 0478212968

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SPECIFICATIONS*	
Description	Lightweight, high power omni-directional sound source
Weight	3.1 kg : extreme lightweight
Broadband high output	122 dB Lw
Frequency range in third octave bands	50-16000 Hz
Height	260mm
Diameter	260mm
Wide range frequency	50-16000HZ (1/3 octaves)
Omni directionality (ISO 16283)	+-1,5dB from 100-2500 Hz
	+- 4 dB from 2500-5000 hz
Max. Sound power level	122 dB+- 1 dB Lw, 4 minutes**
	115 dB Lw, 15 minutes**
Maximum sound power level at 50Hz	97 dB Lw, 2 minutes**
Output level stability	better than 0.5 dB,during 10 minutes at 115 dB**
	better than 0.5 dB, during 1.5 minutes at 122 dB**
Typical Power requirement	800 Watt RMS to 4 Ohm***
Temperature Protection	√
Power overload Protection	√
Main Application area	Small up to very Large Buildings, infrastructure
Main Application examples	Houses, Apartment buildings, Offices, Cathedrals, Concert halls
Number of Speakers	12
4-inch driver technology	√
Seperate subwoofer needed	no
Mounting thread	UNC 3/8-16
Tripod Included	√
Soft transportation case included	√
Qualtiative, Robust Chassis material	√
Industry Standards	ISO 140 / 3382 / 16283 / 10140 / 354 / DIN52210 / ASTM E2235/ ASTM E336/ ASTM E90

POTENTIAL APPLICATION AREAS	
Building accoustic	√
Material tests	√
Road-Railway infrastructure	√
Aerospace	√
Marine	√
Military	√

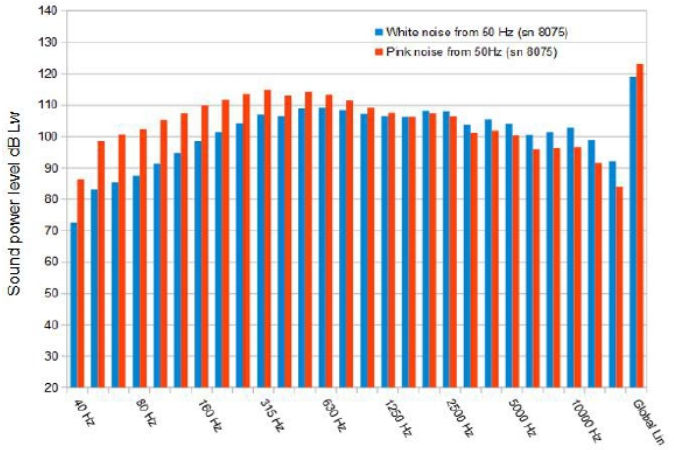
MEASUREMENT TECHNIQUES	
Room + Hall accoustics	√
Reverberation	√
Speech transfer measurment	√
On-site machinery sound power	√
Transmission loss testing	√
Barrier performance measurement	√

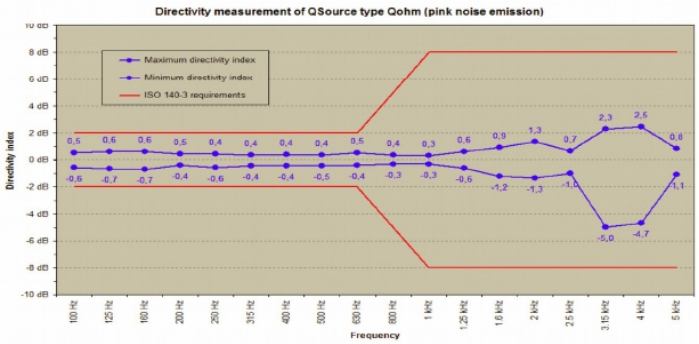
Legenda:

√ = Intended application

√ = Possible application

Certification Tests July 8th 2016





*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.

PART OF:

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