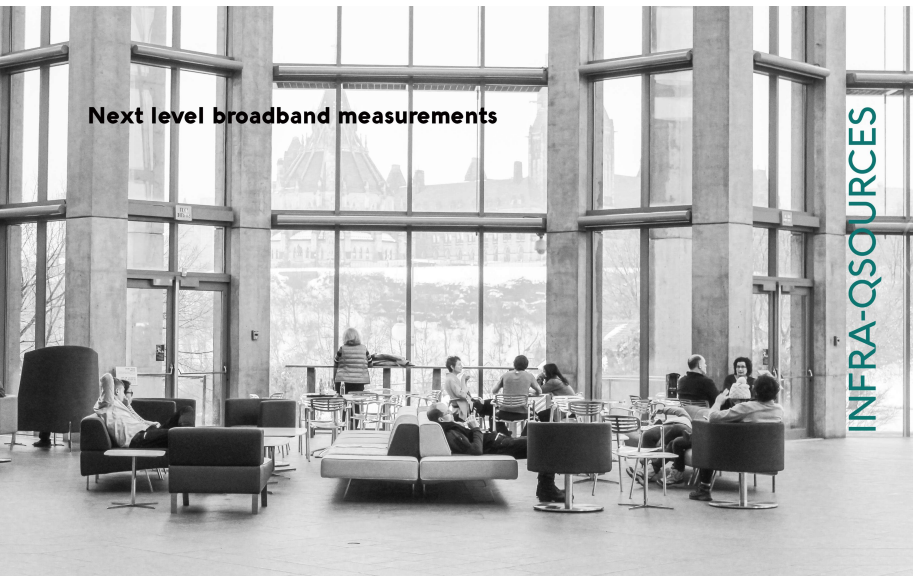




Qsources



Qoms¹

MONOPOLE OMNI-DIRECTIONAL HEMISPHERE SOURCE

Qoms1 is a unique small and lightweight hemisphere monopole point source for broadband measurements. Similar to its fully omni-directional variant Qoms2, the Qoms1 sound source can be used for acoustic optimization of performance sites such as theaters, schools or religious sites for speech and music.

A smooth broadband spectrum of 50-16000 Hz and output level of 109 dB Lw allow measurement in large spaces, while the hemispherical characteristic make Qoms1 the ideal source for measurements from surfaces such as walls, ceilings or subjects such as machinery. The Qoms1 includes a flexible base for easy placement on a flat surface while using this surface (e.g. walls or ceilings) as a reflector. Thanks to its extreme lightweight of 0.9 kg and very compact size, the Qoms1 omni-directional hemisphere source offers a highly efficient alternative to current hemi-dodecahedron loudspeakers as it can be more easily placed and suspended anywhere.



EXTREME LIGHTWEIGHT
0.9 KG.



106 MM. DIAMETER
160 MM. HEIGHT



1/3 OCTAVES: 50-16000 Hz.
BROADBAND HIGH OUTPUT: 109 dB Lw



WORK EFFICIENCY
EASY & FAST SET UP BY 1 SINGLE PERSON



EXCEEDING THE STANDARDS
ISO 3382 / 16283

www.Qsources.be



Qsources

Qoms1

SPECIFICATIONS*

Description	Monopole hemi-omni-directional sound source
Weight	0.90 kg
Frequency range in third octave bands	50-16000 Hz (1/3 octaves)
Height	160mm
Diameter	106mm
Omni directionality (ISO 16283)	Axial ± 2 dB from 100-16000Hz, Tangential ± 5 dB from 100-16000 Hz
Sound power level	109 dB Lw, 2 minutes** 103 dB Lw, 15 minutes**
Low frequency sound power at 50Hz	84 dB Lw, 2 minutes** in broadband pink noise
Output level stability	better than 0.5dB: during 10 minutes at 103 dB** better than 0.5 dB, during 1.5 minute at 109 dB**
Typical Power requirement	100 Watt RMS to 4 Ohm***
Temperature Protection	✓
Power overload Protection	✓
Main Application area	Room acoustics impulse responses, room calibration, etc.
Main Application examples	Performance sites (e.g. recording studio, theatre, and test-rooms)
Number of Speakers	2
Q4 driver technology	✓
Separate subwoofer needed	no
Mounting thread	M6
Ambient temperature range	10 to 45 degrees celsius
Tripod Included	✓
Soft transportation case included	✓
Qualitative, Robust Chassis material	✓
Industry Standards	ISO 140 / 3382 / 16283 / 354 / 14275 / DIN52210 / ASTM E2235/

The Qsources Qoms1 sound source can be used in combination with the Qam signal generator and fully DSP controlled measurement amplifier or Qca, compact measurement amplifier. Amplifiers are offered separately.



Content of the shipment:

- Qoms1
- Power Cable (6m.)
- Tripod
- Soft Trolley
- User Guide

POTENTIAL APPLICATION AREAS

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

MEASUREMENT TECHNIQUES

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

PART OF:



* 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

**** For a minimal level of 70dB + 10dB margin SPL OA

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