



XOS240 High Frequency Omni Sound Source

Features:

- It is composed of professional ultrasonic units and is suitable for high-frequency measurements ranging from 2 kHz to 40 kHz.
- The 12-sides design and low directivity index ensure high-quality acoustic performance.
- Small in size, light in weight, easy to carry.



Applications:

- Non-destructive detection and location of leakage points in doors, windows, and enclosed spaces.
- Other high-frequency acoustic measurements of buildings.

Introduction

XOS240 is a high-frequency spherical sound source newly developed by BSWA. This omnidirectional sound source is equipped with 12 high-quality rubidium magnet speakers, evenly distributed on a 180mm-diameter sphere. The axes of the 12 speakers are exactly at the same angle, forming a regular 12-sided structure. Each speaker has been carefully selected, and they are connected in a series-parallel manner to ensure consistent phase during operation. This connection method also ensures that the impedance of the omnidirectional sound source matches the output impedance of a general power amplifier. The combined output sound power level of this product can exceed 120dB. The above design enables this product to form a stable and powerful high-frequency spherical radiation sound source.

XOS240 features rubber feet and mounting holes for the bracket, allowing it to be placed independently on a horizontal surface or fixed to a dedicated bracket through the mounting holes. Additionally, it is equipped with a stainless-steel handle for the convenient transportation and carrying of the sound source. Compared with ordinary omni sound sources, **XOS240** can provide higher-frequency non-directional sound signals. The directional index is $\leq \pm 3\text{dB}$ in the frequency range of 2 kHz to 40 kHz, and the directional index is $\leq \pm 2\text{dB}$ below 5 kHz.

Specifications

| | |
|-----------------|---|
| Rated Impedance | 3Ω |
| Rated Power | 480W (continuous) |
| Peak Power | 960W (Short-term: 1/5 duty cycle, activation time 10 seconds) |
| Frequency Range | 2 kHz ~ 40 kHz |
| Audio Interface | speakON Audio Interface |
| Diameter | 180 mm (including the speaker) |
| Weight | 2.7kg |



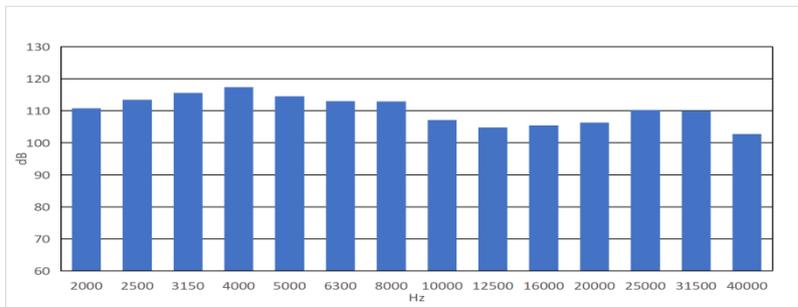
Accessories

| # | Model Number | Description |
|---|---------------------------|-----------------------------------|
| 1 | XOS240 | Omni Sound Source |
| 2 | speakON- Banana head | 3 meters audio cable |
| 3 | User manual | Product specification Manual |
| 4 | Certificate of inspection | Factory test report |
| 5 | Certificate of conformity | Certificate of quality inspection |
| 6 | Packing box | Shipping packing box |
| 7 | Stents | Sound source support |

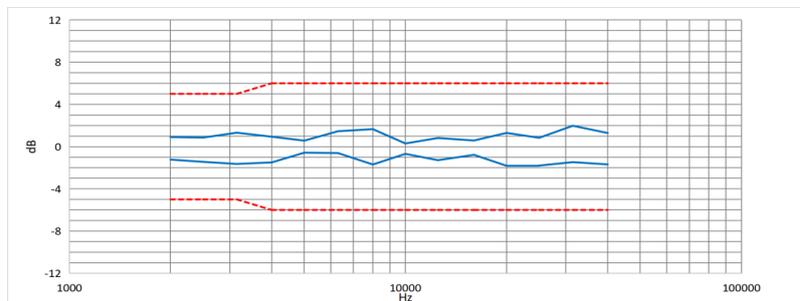


Other features/parameters/pictures of XOS240 are as follows

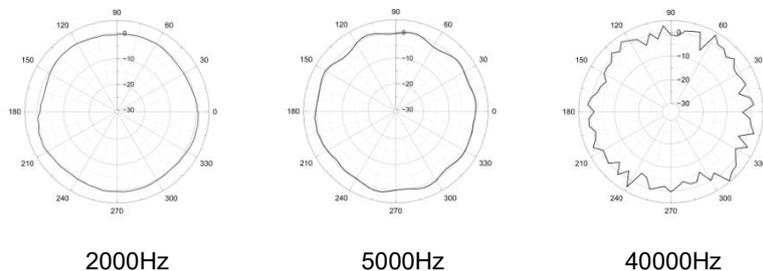
The typical frequency response graph of the sound pressure level at 1 meter (pink noise, BSWA PA300)



The directional index graph
The dashed line is the limit value, and the solid line is the maximum positive deviation and maximum negative deviation measured.



Horizontal directivity diagram
the measuring point is 1.5 meters away from the center of the sphere, and the noise radiation is basically the same in all directions below 5000Hz.



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