

Spherical Omnidirectional sound source with integrated electronics Kit 303

• **Specification complying with International Standards:**

ISO 16283/ISO 140/ISO 3382/ISO 354 DIN 52210/ASTM E2235/ ASTM E336/ASTM E90

- Measurement in room of the apparent sound insulation of dividing elements between rooms according to D.P.C.M. 05-12-1997.
- Measurement of reverberation time using interrupted noise according to ISO 354.
- Measurement of impulse response according to ISO 3382.
- Omnidirectionality according to ISO 140

(Electronic on board) Power supply 230 Vac (115 Volt on request) Or Battery pack BPL300



Front view



Rear view

SL 303 Active Spherical loudspeaker

Continuous sound power output of 125 dB re 1pW.

- Class D amplifier 300 W RMS (600 watts peak);
- Generator with 2 x Pink Noise, 2 x White Noise, 1 x Swept sine, 1 x impulsive noise.
- Auxiliary input for external generator

Dimensions:

Diameter: 35 cm / 13.7 inch

Total Weight:

(amplifier + source) 9 kg / 19 Lb

Electronic on board

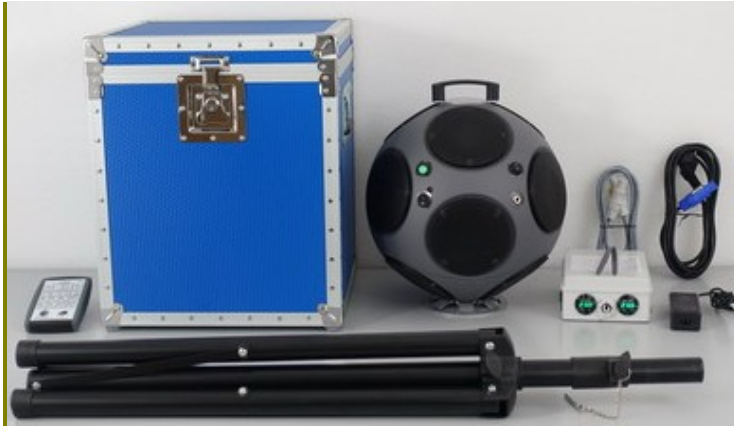


Inside the spherical source:

- **loudspeakers** with neodymium magnets- (12 x 130 mm (5 inch)
- **Class D amplifier** 300 W RMS (600 watts peak); very low heat dissipation.
- **Noise generator** - **Remote control receiver**
- **Micro controller** to linearise and extend the frequency response from 50 Hz–20 kHz
- **Auxiliary input** for external generator



Accessories included



Il kit S303 'all options' include:

SL303AC.DC Active Spherical Loudspeaker

RC103 Multi-function Remote Control: wireless

TR300 Tripod: height 100/175

FC300 Flight case

LBP300 Battery

BC100 Battery charger

Ac Cable

Dc Cable

Remote control

16 keys for total control



Noise generator :

* **White noise:** Pseudocasual

* **Pinck noise:** Pseudocasual

* **Fast white noise:** Alternative to the previous (greater precision)

* **Fast pinck noise:** Alternative to the previous (greater precision)

* **Sine sweep:** (exponential) 20 seconds 50- 20,000 Hz

* **Impulsive noise:** It reproduces a noise similar to a balloon
Bursting, a gunshot. or 2 wooden boards banging.



NOTE: The sine sweep provides a pressure level
9 – 10 dB higher than that provided by the pink noise

BPL 300 Lithium batteries - BC100 Charger



Voltage (max) : +26V /0 /-26 - 6 A

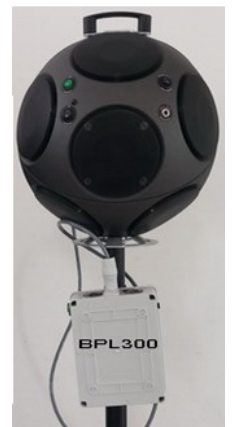
Dimensions mm (H 80 - W 150 - D 200)

Weight 1.9 kg

Autonomy: 1 hour at maximum power
(1.5 hours with pink noise eq)

Voltmeters for charge control

Certified UN 38.3 / IEC 62133



Aluminum flight case

With pocket for remote
control and cables

External dimensions
mm (H 490 - W 410 - D 410)

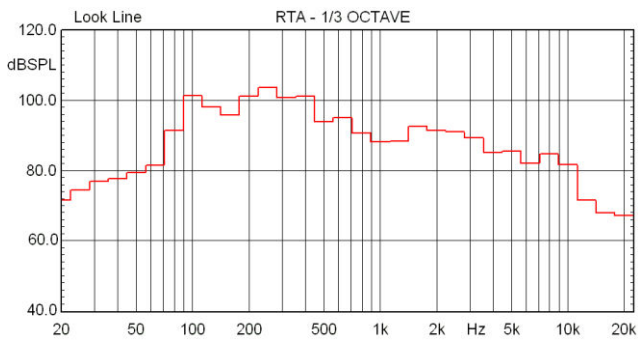
Complete with:

- ISO conformance certificate
- User instructions
- EMC & CE conformance certificate
- 2 year warranty (1 year for battery)



Tripod:
height 100/175

Impulsive noise:



Frequency response 80-5.000 Hz
All 1/3 octave bands between 85 and 102 dB
(domestic room with mick 3 metres from source)

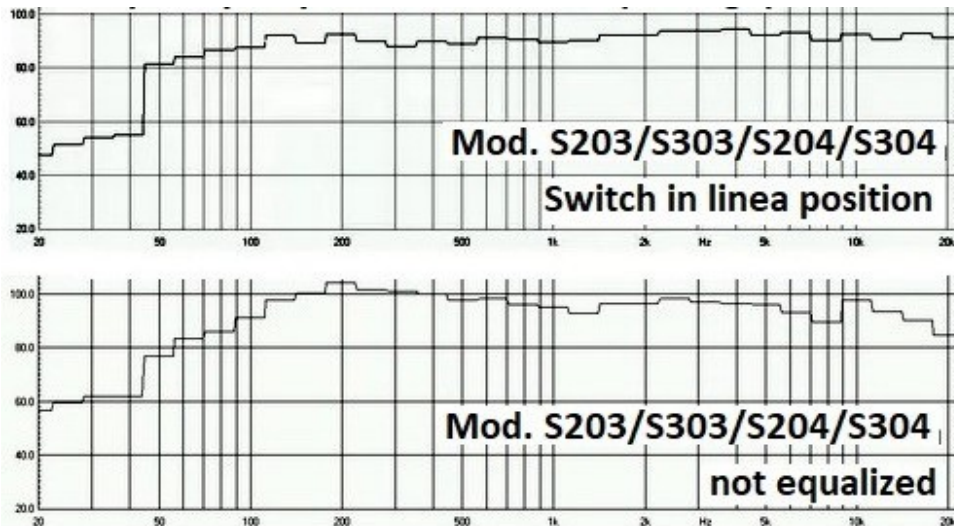
It replaces (with greater precision and practicality)



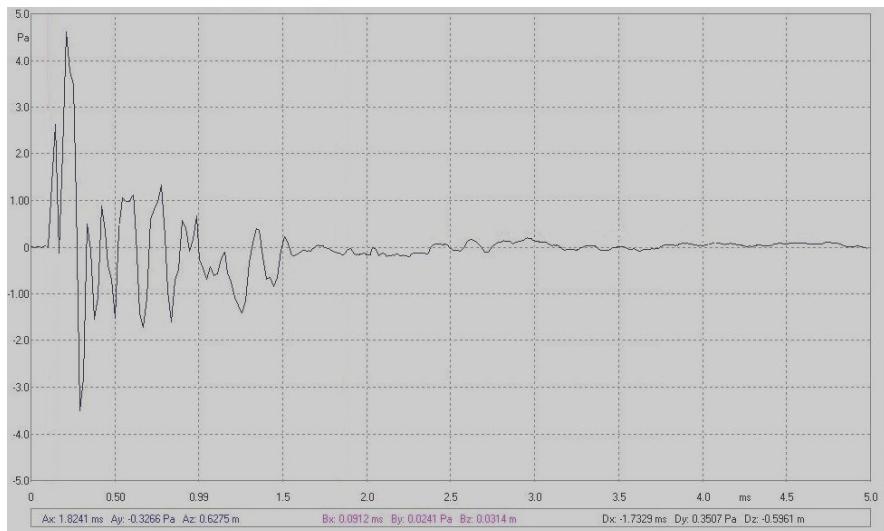
the clapper, the gunshot or the bursting balloon

(Schroeder) Very fast measurement of reverberation time

Frequency response in free field (average)



Decay time



The spherical container is constructed by high-pressure moulding of two microcellular composite polymers. This combination allows for a particularly muted and damping structure, (minimising vibrations)

The decay time of the sound sources is 1,5 thousandths of a second.

This is the time it takes for the whole system to go from full power to fully off.

"MDF" wooden containers have double times, plastic containers have times 5/10 times longer.

Polar plot of Spherical source S303 ACDC (and 203 AC)

