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## 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**

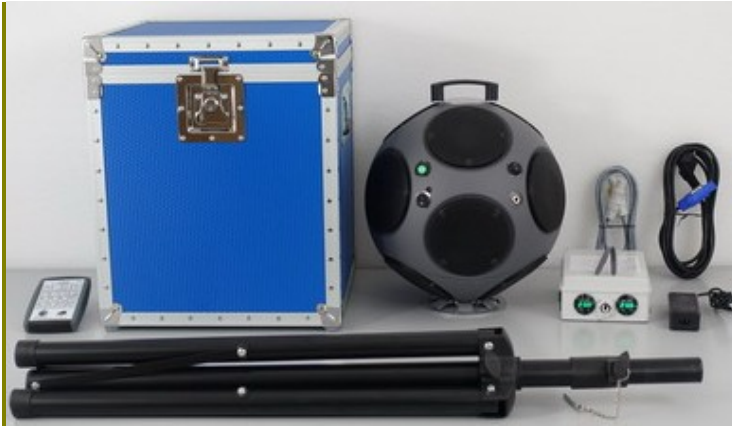


### **Inside the spherical source:**

- **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)

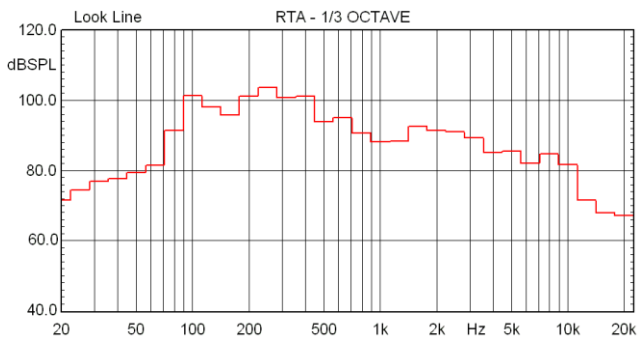
### Complete with:

- 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)

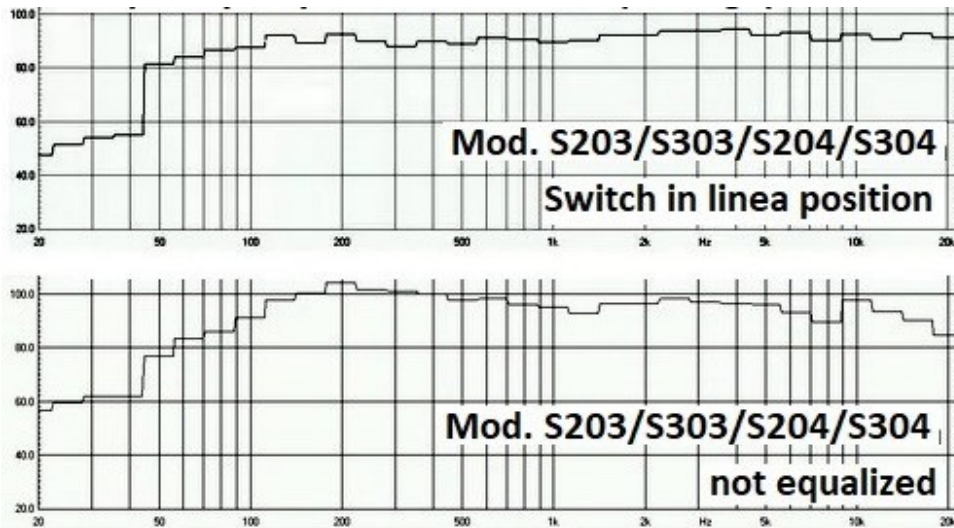
It replaces (with greater precision and practicality)



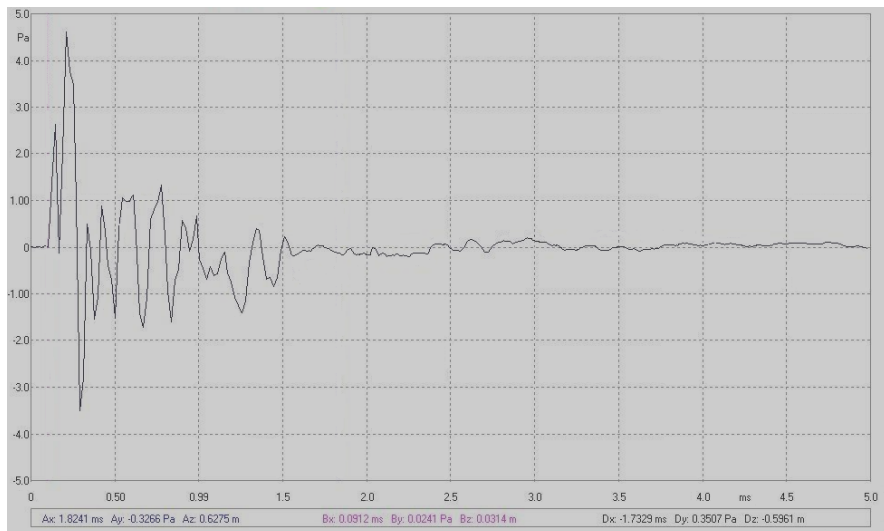
the clapper, the gunshot or the bursting balloon

(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)

