

Macro® Loudspeaker



The **MACRO** loudspeakers represent the maximum expression of line array technology in so reduced a size.

They are the result of an extensive search on components and careful mechanical design, in order to create a fully integrated system, eclectic and flexible.

The MACRO line is composed by 3 models, all with identical technology but several length extensions, each of them available in aluminium, finished in different colours oxidation or powder coated in RAL standards, and in marine natural or coated wood.

A transparent plexiglas version is also available for special applications. Within the MACRO system all cabinets can be mechanically coupled in a very adaptable way, to organise even curved sound lines, whichever their dimensions, always with utmost sound quality and remarkable loaded power.

Impedances are standard and inversely proportional to physical dimensions. That allows the perfect match with power amplifiers and therefore the whole system optimization.

The aluminium version weathers the most severe conditions, hence is suitable for marine environment installations maintaining the same utmost sound quality. As NANO, MINI, MICRO and MAXI, even the MACRO line is compatible with the MM-SUB subwoofer, which extends the response to 35 Hz.

All these speakers can be driven by Powersoft® "Ottocanali DSP" or "X" series amplifiers with dedicated presets. Thanks to implementation of FIR filters the loudspeakers shows a flat phase response on its entire band, bass frequencies included; this performance simplifies matching with different loudspeakers.

Specifications	Macro 4.4.32	Macro 4.8.16	Macro 4.16.8
Frequency response ± 3 db	100 ÷ 20.000 Hz	120 ÷ 20.000 Hz	120 ÷ 20.000 Hz
Efficiency (1W/mt)	98 db	101 db	104 db*
Program power	300 W	600 W	1.200 W
SPL max (1 mt)	122 db	128 db	134 db
Impedance	32 Ω	16 Ω	8 Ω
Coverage	120°H x 15°V	120°H x 10°V	120°H x 5°V
Drivers	4 x Full range 4' + 12 x Tweeter 0,75'	8 x Full range 4' + 24 x Tweeter 0,75'	16 x Full range 4' + 48 x Tweeter 0,75
Connections	2 x SpeakON® 4 poli	2 x SpeakON® 4 poli	2 x SpeakON® 4 poli
Dimensions (cm)	11,2L x 41,2H x 20P	11,2L x 82H x 20P	11,2L x 163H x 20P
Weight (Kg)	4,5	8	15

*Efficiency measured at 4 mt and transferred to 1 mt.

Copyright N°DEP635019622356845000

Sonus Audio Services srl reserves the right to make modifications without prior notice.

Sonus Audio Services srl

www.sonusaudioservices.it – info@sonusaudioservices.it +39 0666161320

MACRO is the first two way loudspeaker in VLLA serie.

Thanks to mechanical accessories the cabinets can be installed in any configuration, even coupling them in length, which has no virtual limits. Increasing impedances linked to decreasing sizes make so that, with a higher number of speakers, the power required to amplifiers increases too and vice-versa.

A 2.400W/4 Ohm power (stereo) amplifier will easily drive 16 x MACRO 4.4.32 or 8 x MACRO 4.8.16, or 4 x MACRO 4.16.8 (the first digit represents the speaker components diametre, the second their number and the third the impedance).

A 4 wires "bridged" cable allows to choose whether to connect the loudspeaker on 1-1 or 2-2 wiring couple of SpeakON®. That enables you to couple two amplifier channels to the same 4 poles cable.

On a Powersoft® "Ottocanali DSP" or "X" platform presets for all the loudspeakers are available.

Each MM-SUB subwoofer is able to match with two MACRO 4.8.16, maintaining the same SPL capacity.

