

# Processed Active Subwoofer

## MAIN APPLICATIONS

Permanent installations in:

- Theatres, Concert Halls, Clubs, Places of Worship, Conference Rooms, Indoor Sports, Arenas & Stadiums
- Sound reinforcement for live events:
- Touring, Bands, Orchestras



## MAIN FEATURES

- Ground stack direct load subwoofer
- Double 18" (460mm) B&C very high excursion woofer with 4" (100mm) voice coil
- Class D amplifier delivering 4000W RMS with switch mode power supply
- Frequency Response from 30Hz @-6dB
- 0.7" (18mm) birch plywood enclosure, scratch resistant black paint, 6 handles and heavy duty metal grille with synthetic protection cloth
- M20 top mount stand socket
- Optional 4 swivel-mount 4" (100mm) casters
- Low frequency extension cabinet for the MUSE 210LND line array for ground stacked configurations

## DESCRIPTION

MUSE 218SND is a direct radiation ground subwoofer, has two B&C 460mm long excursion speakers with 100mm voice coil and 4000W class D amplification, capable of 148.5dB SPL. The bass-reflex cabinet offers substantial energy up to 30Hz and is ideal for extending and reinforcing the low frequencies of the MUSE 210LND line array in ground-stack configuration.

It has presets to create various configurations with cardioid directivity, where some subwoofers face rearwards from the audience to acoustically cancel the sound pressure behind the cluster, obtaining a reduction of the SPL on the back by over 15dB.

The enclosure, optimized with BEM-type acoustic simulations to reduce resonance and turbulence of the ducts, is built with 18mm birch plywood with six handles and scratch-resistant paint. Reinforced front mesh with protective fabric and provision for optional four swivel-mount 4" (100mm) casters in the rear panel.

## TECHNICAL SPECIFICATIONS

**GENERAL****MUSE 218SA**

Configuration	way	1 Reflex
Low frequency woofer	mm	2x18" - 4 coil

**ACOUSTICAL SPEC.**

Frequency response	@ -6dB	30Hz preset dependant
SPL max. (cont / peak)	dB	142.5 / 148.5 half-space
Dispersion	H x V	Omnidirectional

**AMPLIFIER**

Built-in amplifier max.	W	4000
Built-in amplifier peak	W	8000
Input impedance	kOhm	22

**INPUTS / OUTPUTS**

Power supply connectors		PowerCon IN/OUT
Input connectors		XLR IN / OUT

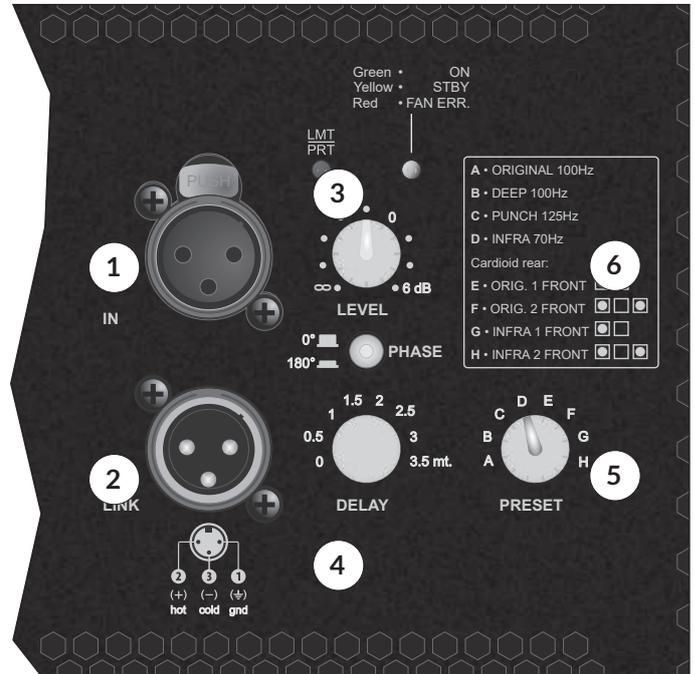
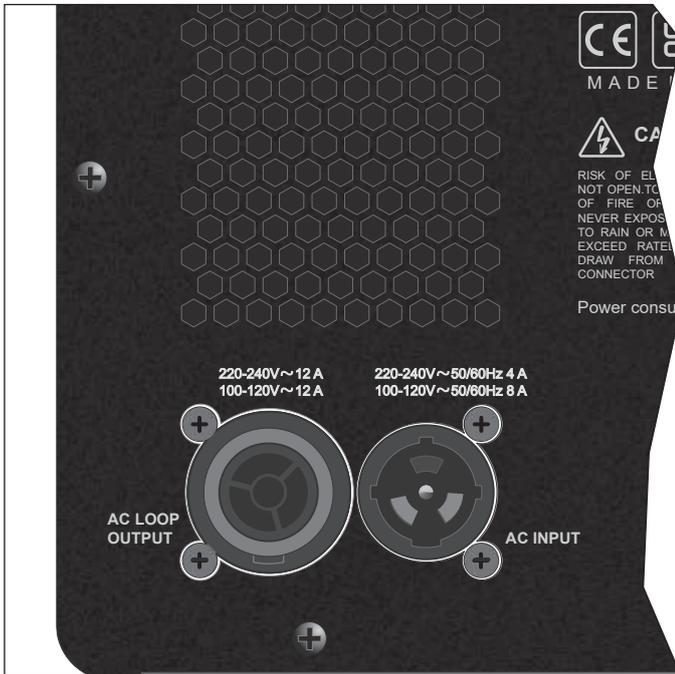
**POWER SUPPLY SPEC.**

AC Power requirements	W	800
Power cord	ft.	16.4

**MECHANICAL SPEC.**

Material		wooden cabinet - black finish
Handles		Integrated (3 x side)
Net sizes (WxHxD)	inch	44,88 x 28,13 x 21,85
Transport dimensions (WxHxD)	inch	47,24 x 31,49 x 28,74
Net weight	lbs	218,25
Shipping weight	lbs	238 with pallet

## CONNECTION PANEL



## PRESET

**ORIGINAL:** corresponds to the typical FBT sound. It is the default general purpose preset and is thus fit for the majority of applications.

**DEEP:** this preset extends and emphasizes the low range of the subwoofer, for a very deep and soft sound suitable for high quality and medium energy applications, such as acoustic music, jazz, etc.

**PUNCH:** the sound of the sub becomes drier, reduced low frequency extension but more energy concentrated in the 80- 120Hz range. Suitable for rock music and high SPL applications.

**INFRA:** the filter is set to a lower frequency with respect to the other presets, thus only very low frequencies are reproduced. Use this preset in systems with multiple subwoofers playing different frequency ranges. For subwoofers combined with the MUSE 218SA model, select the preset "XXXXX WITH INFRA".

### Cardioid rear

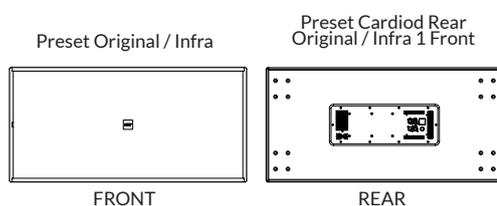
**ORIGINAL 1 FRONT:** preset to be used in systems with two subwoofers; select the ORIGINAL (1) preset on the speaker oriented toward the audience. (pic.1)

**ORIGINAL 2 FRONT:** preset to be used in systems with three subwoofers; select the ORIGINAL (1) preset on the two speakers oriented toward the audience. (pic.2)

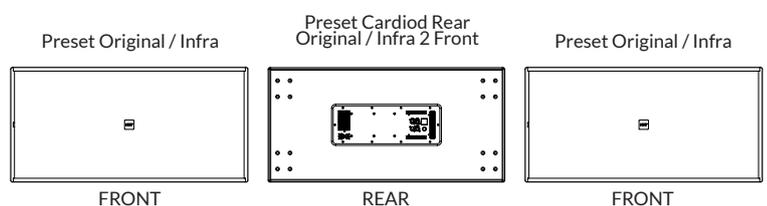
**INFRA 1 FRONT:** preset to be used in systems with two subwoofers; select the INFRA (1) preset on the speaker oriented toward the audience. (pic.1)

**INFRA 2 FRONT:** preset to be used in systems with three subwoofers; select the INFRA (1) preset on the two speakers oriented toward the audience. (pic.2)

PIC.1



PIC.2



## CONTROLS & FUNCTIONS

**PRT / LMT:** if this led light up there is a system malfunction due to an internal amplifier failure or to the intervention of current limiting circuits against thermal overload.

### LED STATUS:

- VERDE: ON, system is in operating mode.
- YELLOW: STANDBY, in the absence of an input signal, after 30 minutes the amplifier goes into low power consumption mode. As soon as the signal exceeds the detection threshold, it returns to normal mode in less than 1 second.
- RED: FAN ERROR: signals an anomaly state of the fan that does not allow the amplifier to cool adequately. Check if the fan is free to spin, the fan may need to be replaced.

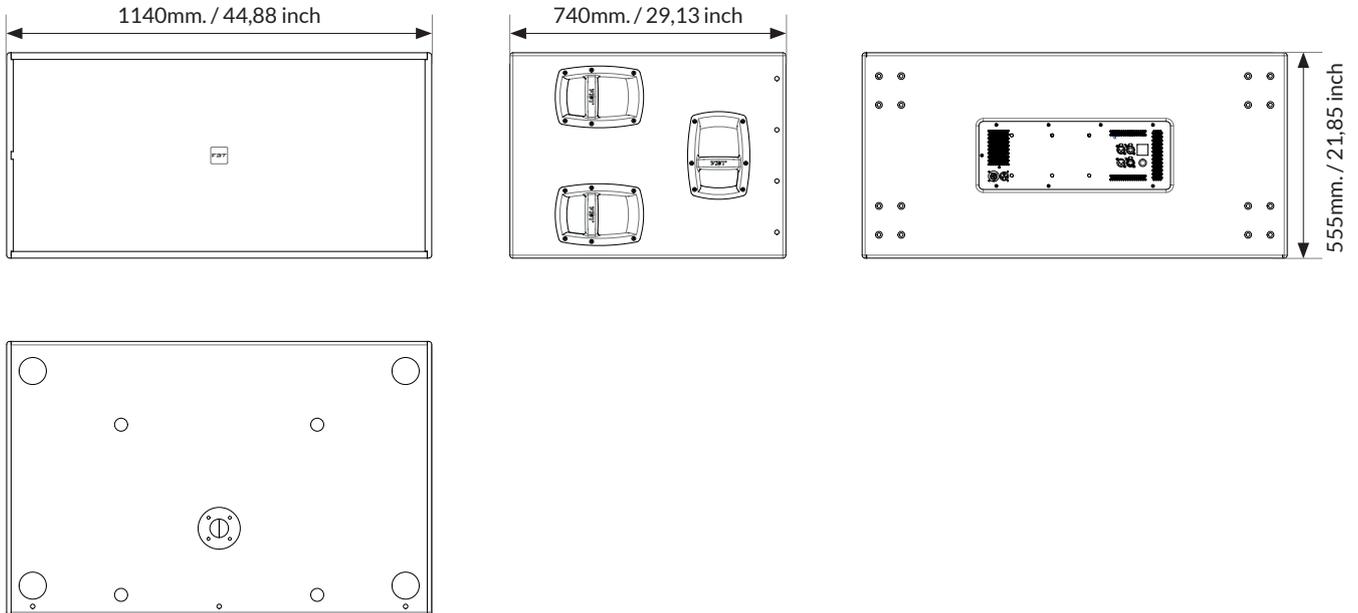
**PHASE:** the Phase control allows to optimize phase alignment, i.e. to obtain a uniform frequency response in the crossover area between the sub and the satellite. When it is set at "0°" the sound emission is in phase with the input signal; when it is set at "180°" the sound emission is in counterphase with the input signal; thanks to this control subwoofer adjustment will be even more flexible with a consequent performance optimization.

**LEV:** adjusts the signal general level.

**PRESET:** select 8 preset each of whom corresponds to a specific speaker equalization according to user's personal preferences and to the acoustics of the listening area.

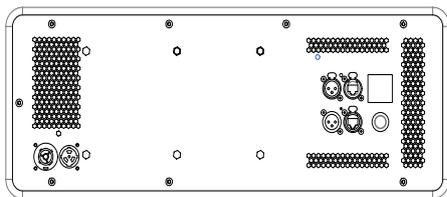
**DELAY:** control of a digital Delay line acting on the input signal; in this way it is possible to make up for the vertical misalignment of sub and satellite;

## DIMENSION DRAWING



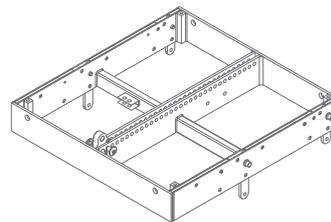
## AMPLIFIER MODULE

The FBT MUSE 218SND provides a new "intelligent" forced ventilation 4000W high-efficiency Class D power amplifier with switch mode power supply.

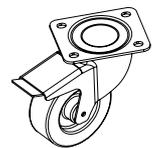


## ACCESSORIES

MUSE models feature a suspension system embedded in the bearing structure. The only element to be added (accessories) to realize complete arrays is the MS-F210 flybar for the configuration with subwoofer on top or to ground satellites over the sub.



MS-F210  
Flybar



KBW-10045  
4 Wheels Kit with brake  
100mm  $\varnothing$