

CB 18 powered



One of the most successful systems from KS AUDIO is the SAT, often copied and today the epitome of a small PA with active mono subwoofer.

That's why we created the SAT3 + SESSION for all those users who are looking for the sound of a good hi-fi system, need the live intelligibility of a PA and whose audience usually consists of a few hundred people - products that leave nothing to be desired!

The centre of these systems is the **CB 18**:

An active subwoofer with bass reflex enclosure and particularly large ports, equipped with an 18" ND chassis with 4" voice coil. This 1200W chassis also delivers deep bass without any distortion. A second CW18 passive woofer can be operated as an extension on a second integrated power amplifier in mono and even stereo mode.

The two midrange / tweeter amplifier channels of the subwoofer drive two C 1s in SAT mode or one C 12 in SESSION mode in bridge mode amplifier operation - for maximum sound pressure and precision!

Switching between these modes is automatic as soon as the controller detects a connected C 12. With this combination of 10" or 12" ND and 1" ring radiator or 1.75" ND driver - both with HDSP horn - your performance in front of any audience will be a success!

The DSP controller processes both analogue signals up to 20dBv and digital AES3 format, switching is automatic. For the C 1 and C 12 systems, special FIR filters are programmed for linear-phase impulse equalisation.

The 3000Wrms amplifier is recessed into the woofer cabinet in such a way that, on the one hand, an easily accessible sloping front panel is created where the controls do not protrude and, on the other hand, the cooling for the three 2-channel PWM power amplifiers can take place unhindered. This is in response to the wish of many users not to use active cooling in order to avoid disturbing fan noise.

As with all KS systems, the enclosure construction is made of birch plywood and is very resistant to mechanical and chemical influences due to its durable PU coating. A high stand flange with M20 thread, stacking feet, protective grille and optional protective transport cover with castors are further features of this high-quality product.



*Subwoofer for SAT and SESSION
compact PA systems*



One 18" long excursion 4" voice-coil



High efficiency integrated amplifier



FIRTEC™ 3-channel DSP



6x 500W of undistorted power



136dB max SPL



AMPLIFICATION



The integrated amplifier of the CB 18 has no less than 6 amplifier channels. Channels 1 and 2 as well as channels 3 and 4 are bridged and serve as pure low-frequency amplification.

In SAT mode, channels 5 and 6 are respectively the left and right channels of the stereo signal. Here, the equalisation is optimised for KS AUDIO C 1 full-range loudspeakers.

As soon as a C 12 is connected to the output of the amplifier, the electronics recognise it and automatically switch channels 5 and 6 to bridge mode and the equalisation is adjusted on the KS AUDIO C 12.

In the latter SESSION mode, the amplifier operates in mono.



Channel distribution CB 18 as SAT 3 Subwoofer

SAT 3	Stereo
Channel 1+2 bridge mode	Integrated woofer - mono
Channel 3+4 bridge mode	Optional C W18 subwoofer
Channel 5	C 1 Fullrange loudspeaker - Left
Channel 6	C 2 Fullrange loudspeaker - Right



Channel distribution CB 18 as SESSION 3 Subwoofer

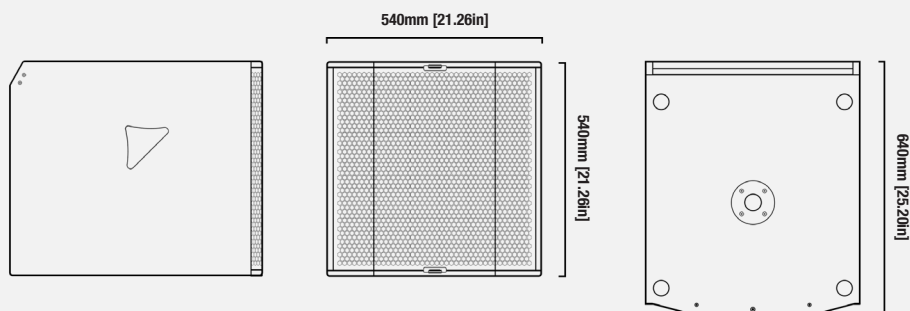
SESSION 3	Mono
Channel 1+2 bridge mode	Integrated woofer
Channel 3+4 bridge mode	Optional C W18 subwoofer
Channel 5+6 bridge mode	C 12 Fullrange loudspeaker

CB 18 powered

SPECIFICATIONS

Frequency response	38 - 120Hz ± 3 dB 32 - 120Hz ± 6 dB
Max. SPL (1m, free field)	136dB
Directivity	Omni directional
Transducers	One long excursion 18" cone 4" voice-coil
Power handling AES RMS/peak	1200W / 2400W
Acoustic principle	Bass-reflex
Output power per channel (THD+N < 0.5%, all 6 channels driven)	250W 8 Ω 500W 4 Ω
2 channel bridge-mode	1000W 8 Ω
Amplifier type	6 PWM amplifiers - 3000Wrms
Power supply	SMPS (Switched Mode Power Supply) with power factor correction (PFC)
DSP	3-channel, 32-bit, floating point, 192kHz sampling frequency
Filter technology	IIR and FIR filters, delay adjustments, contour filter
Loudspeaker output	speakON NL4
Power input - output	powerCON in / out 110-240V 50-60Hz
Signal input - output	XLR3-F Analog/AES-EBU autoswitch RJ45 Ethernet 1G T Base for KS AUDIO REMOTE Control

DIMENSIONS AND WEIGHTS



40kg | 88lb