

SAFETY INFORMATION

Before you use this TW AUDIO product, read the manual carefully.

Loudspeakers can be checked and stamped according to BGV C1 by official departments. For more information contact TW AUDIO at info@twaudio.com or +49 (0) 71 41 - 48 89 89 0

GENERAL

The BSX was designed being a hornloaded - hybrid, vented subwoofer equipped with two 21" drivers.

BSX by default is delivered in black colour and polyurea coating. Any other RAL colour is possible as an option also (warnex structure paint).

BSX is designed to be driven with a DSP equipped amplifier. TW AUDIO provides presets for the Powersoft K3DSP AESOP, X4 or LAB Gruppen PLM + series used as system amplifiers. As an external controller for other amps we recommend to use the LAKE LM26 or LM44.

The BSX always requires a dedicated preset loaded on the amplifier / controller. Never do use the BSX without this preset, and always be aware to have the correct preset loaded on your system amplifier before connecting the loudspeaker. The PRESET determines the output routing and the connection port on the APL4 panel. Be sure that the internal connections in the amplifier rack are identical to that shown in Fig. 3.

In general, there are two types of presets available:

1. BSX in INFRA mode - for combinations with other TW AUDIO subwoofers
2. BSX in FULL mode - as main subwoofer in combination with TW AUDIO top loudspeakers / systems.

The BSX is driven from NL4 PIN 1+/- and NL4 PIN 2+/- . Only 4 wire cables can be used to operate the unit correctly. See Fig. 4 to study.

COMBINATION WITH OTHER PRODUCTS

BSX can be combined with any TW AUDIO product. Be sure about proper time alignment. Please refer to Fig. 1 for available presets and combinations, also check our homepage for newest versions and update of presets. On www.twaudio.de you can also download further system example papers, system combinations and setup examples.

ACCESSORIES

BSX can only be groundstacked. There is no hardware available to fly this subwoofer. Find out more on the www.twaudio.de website.

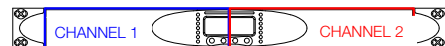
If you have any questions about your product don't hesitate to contact TW AUDIO at support@twaudio.de or by phone +49 (0) 71 41 - 48 89 89 55.

BSX	TECHNICAL DATA	
Frequency range	[Hz]	27 - 120
Power pgm/peak	[W]	2 x 3600 / 2 x 7200
Impedance	[Ohm]	2 x 4
Dispersion pattern		omni or cardioid (CSA mode)
Sensitivity	[dB]	99
max. SPL	[dB]	142
Dimensions	[mm]	606 x 1406 x 900
Weight	[kg]	109

FIG 1. PRESETS / REFERRED TO PRESETLIST A03.1

preset list version
 speaker 1 (PIN1+/-) or speaker 2 (PIN2+/-)
 frequency response range: infra / full
 Cardioid Subwoofer Array (rear facing !)
 speaker model

BSX-CSA-infra-S1 _____ BSX-CSA-infra-S2 ___3.1



DEVICE PRESET NAME	
CHANNEL 1	CHANNEL 2
BSX	
BSX-infra-S1 _____	BSX-infra-S2 ___3.1
BSX-CSA-infra-S1 _____	BSX-CSA-infra-S2 ___3.1
BSX-full-S1 _____	BSX-full-S2 ___3.1
BSX-CSA-full-S1 _____	BSX-CSA-full-S2 ___3.1

FIG 2. RESPONSE FULL / INFRA for TW AUDIO BSX presets in use

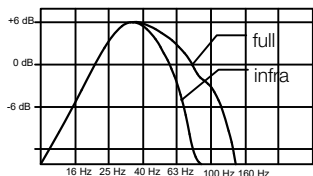


FIG 3. TW AUDIO APL4-K / K3 AMPLIFIER RACK

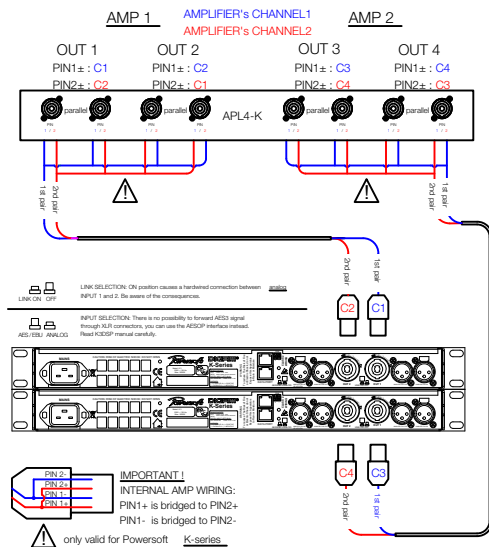


FIG 4. INTERNAL WIRING DIAGRAM

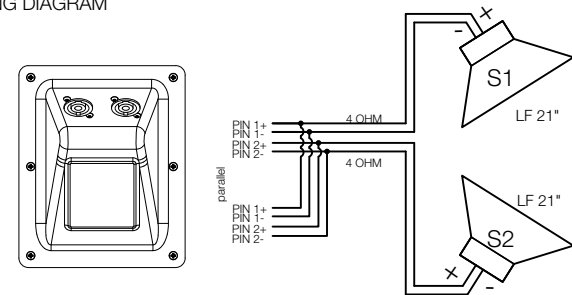
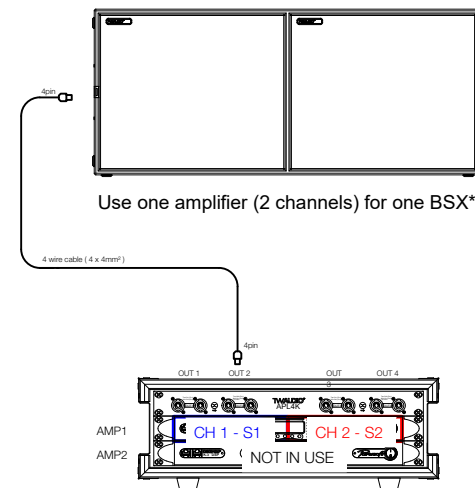


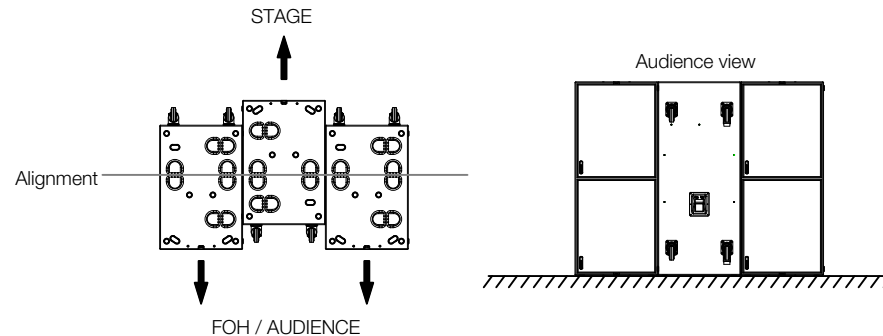
FIG 5. BSX - CONNECTION TO AMPLIFIER SYSTEM



*NOTE:
 It is strongly recommended not to link BSXs together, because of its power requirements and 4 Ohm impedance.

FIG 6. BSX - CARDIOID SUBWOOFER ARRAY OPERATION

CSA presets were optimized for following BSX configuration:



*NOTE:
 Don't mix full with infra mode in one cardio setup. Decide for one mode only.