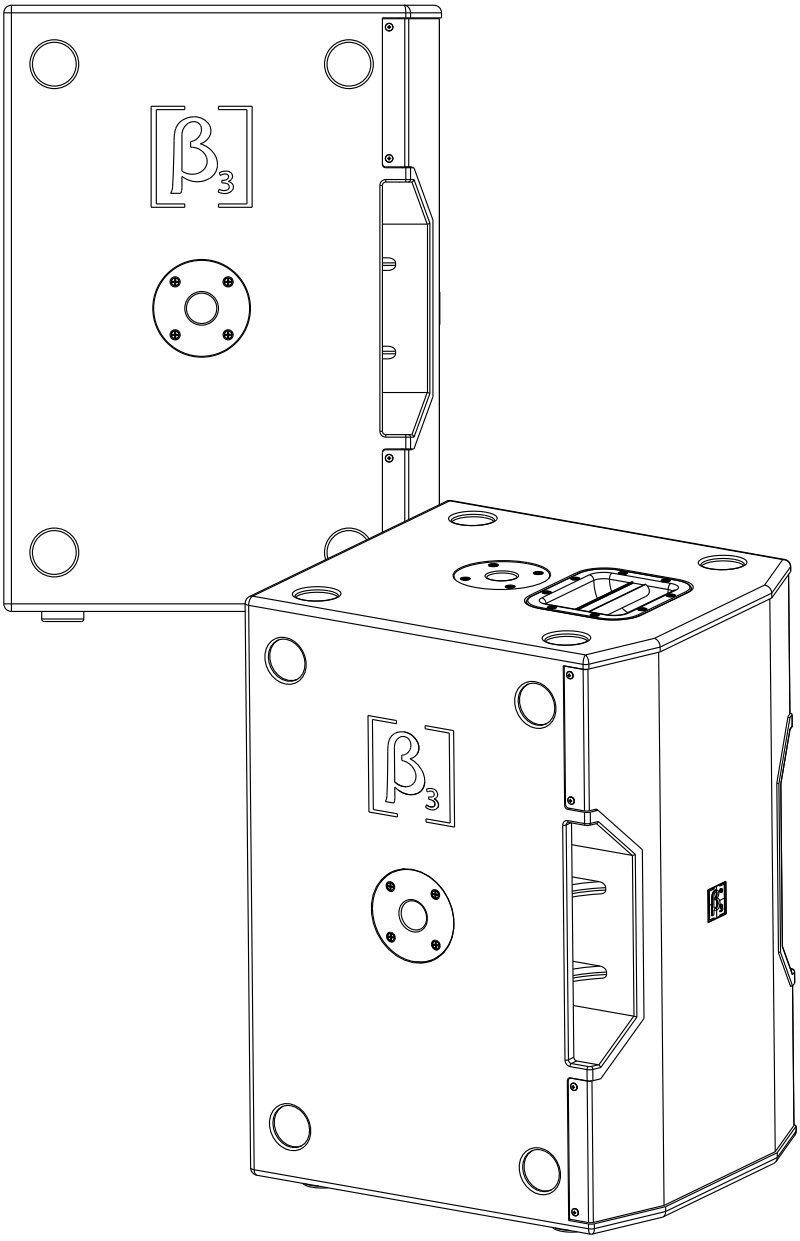
Beta Three



T212B

Dual 12" Passive Subwoofer

User Manual

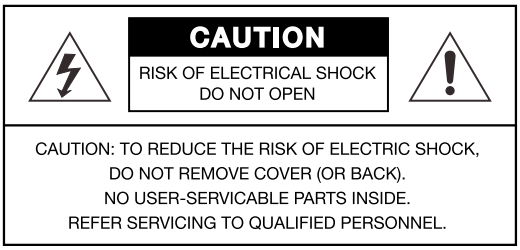
UM-T212B-20121217 ver A

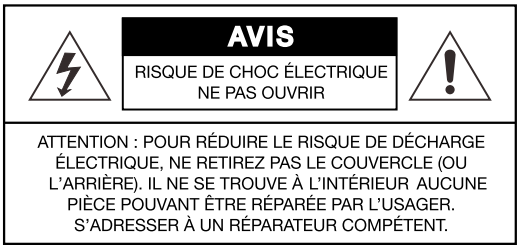
SAFETY INSTRUCTIONS

PLEASE READ THIS MANUAL FIRST

Thank you for a buying β_3 product. Read this manual first as it will help you operate the system properly. Please keep this manual for future reference.

WARNING: ***This product must be installed by professionals. When using hanging brackets or rigging other than those supplied with the product, please ensure they comply with the local safety codes.***





The exclamation point within an equilateral triangle is intended to alert you to the presence of important operating and servicing instructions.

ATTENTION: ***Don't refit the system or spare parts without being authorized as this will void the warranty.***

WARNING: ***Don't place naked flames (such as candles) close to the equipment.***

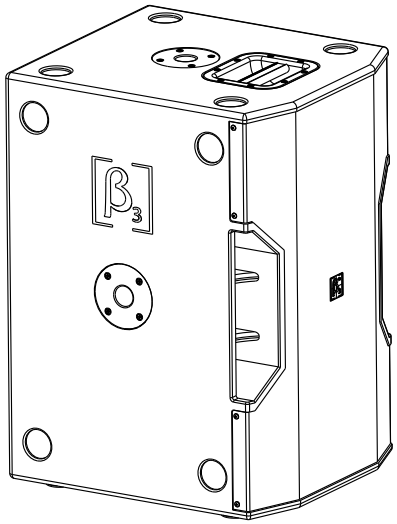
1. Read the instructionmanual first before using this product.
2. Please keep this manual for future reference
3. Pay attention to all warnings.
4. Obey all operating instructions.
5. Do not expose this product to rain or moisture.
6. Clean this equipment with a dry cloth.
7. Do not block any ventilation openings. Install according tomanufacturer's instructions .
8. Do not install this product near any heat source, such as a, heater, burner, or any other equipment with heat radiation .
9. Only use spare parts supplied by the manufacturer.
10. Pay attention to the safety symbol on the outside of the cover.

CONTENT

⚠ Product information is subject to change without prior notification. Please visit www.elderaudio.com for latest updates.

T212B

Dual 12" Passive Subwoofer



Features

- Dual 12" high-power woofer.
- Computer aided design to optimize frequency and phase response.
- Frequency response range: 48Hz-2.2kHz (-3dB).
- Sensitivity 96dB, MAX.SPL 133dB/139dB(PEAK).
- Rated power 1000W.

Description

β3® T212B is a compact subwoofer. It is used in middle to large size venues demanding high SPL and reliability. It helps building perfect playback system cooperating with T Series full range products.

Band-pass design helps T212B perform high SPL with small volume. The driver uses high powered 100mm diameter voice coil which is wrapped by copper wires outside. Voice coil Skelton is made of TIL material that improves the tolerance of voice coil power suffering. Ferrite magnetic circuit provides very high BL and line magnetic circuit.

Power compression reduces by good heat radiating performance and harmonic distortion also does so by iron choking ring limiting current. Rated power can reach 1000w and short max power is up to 4000w (GB/T9396-1996 Standard).

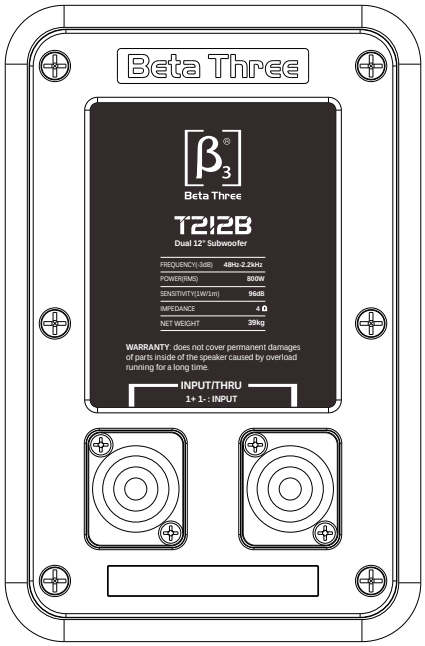
T212B is good for carnival and permanent installation. Laminated board from China painted with polyurethane guarantees super weather resistance. Two stands, 8*50mm rubber feet and caster installation points are attach to the loudspeaker which provides convenient installation, stacking and removal.

Applications

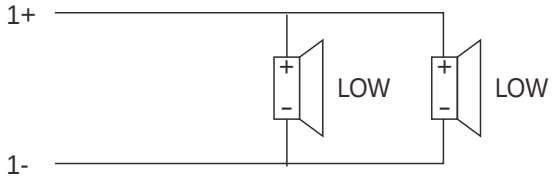
- Small Auditorium
- Multifunctional Hall
- Disco Hall
- Small Performance
- Karaoke Room

Two NL4 connectors are available for amplifier connections. Paralelled connector is very convenient for another speaker connection.

Terminal Plate

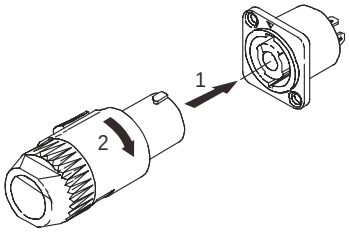


1+ 1- INPUT

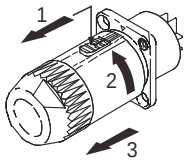


NL4 Connection

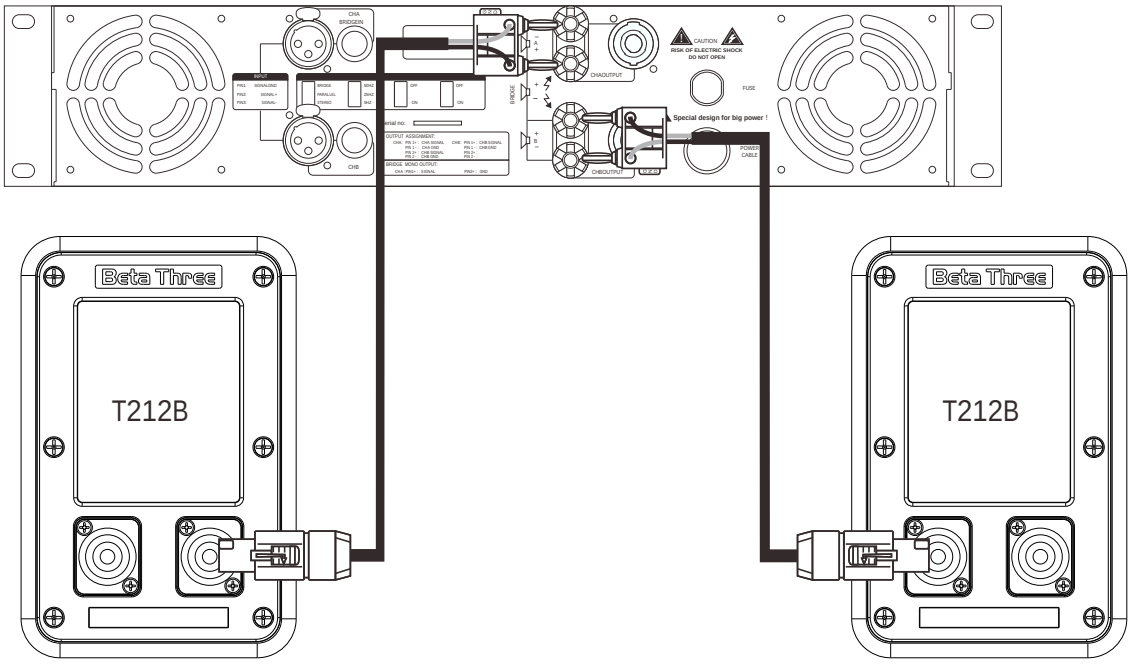
1. Connect



2. Disconnect



System Connection Reference



Attention: The impedance of connected speaker must match the impedance of amplifier output.

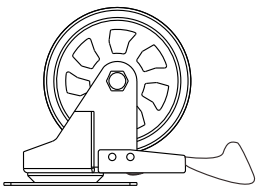
Attention: Make sure the polarity of speaker and amplifier correctly.

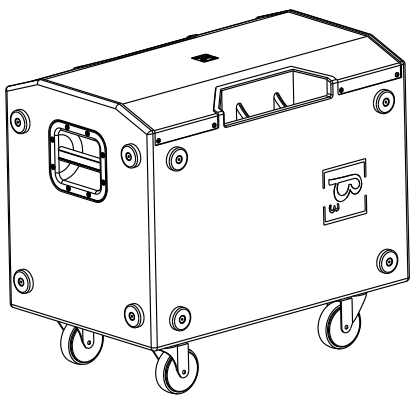
Mounting Accessories(Optional)

1. Speaker stand

2. Mobile Caster

Caster: ϕ100 *34mm 4 pcs
Screws: M8 *30 Hexagon 16 pcs
Spring washers: ϕ8 (Black) 16 pcs
Flat washers: ϕ8 (Black) 16 pcs
PE bag: 4 pcs
Carton: 1 pc

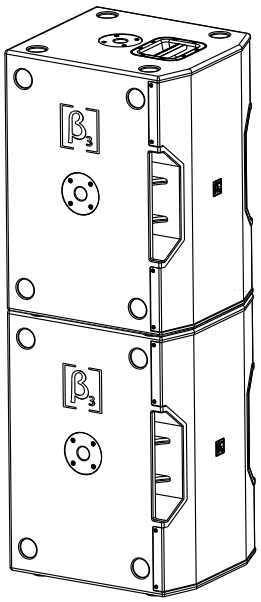




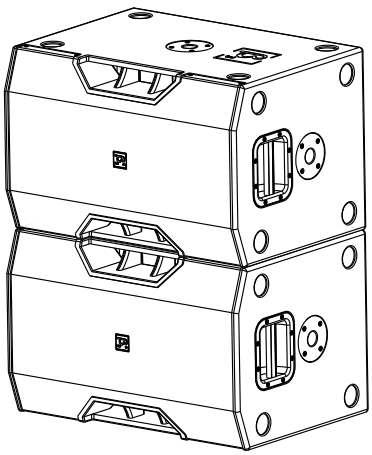
Warning: Make sure the mounting accessories safety factor not less than 5:1 or meet the local standard during installation .

Installation Reference

1. Stack A



2. Stack B



Specification

System:	Passive low-frequency speaker
Woofer:	2×12"Woofer
Frequency response(-3dB)[1]:	40Hz-2.2kHz
Frequency response(-10dB):	40Hz-3kHz
Sensitivity(1W@1m)[2]:	96dB
Max.SPL(1m)[3]:	125dB/131dB(PEAK)
Power:	800W (RMS)[4] 1600W (MUSIC) 3200W (PEAK)
Rated impedance:	4 Ohms
Cabinet:	Plywood
Mounting accessories:	Fixed supporting base
Handle:	2×Iron handle
Surface:	Polyurethane-based painting. Steel grille is coated by powder to provide strong ultra-Weatherability.
Connector:	NL4×2(one input, one output)
Cabinet dimension: (WXDXH)	460×520×720mm (18.1×20.5×28.4in)
Package dimension: (WXDXH)	630×580×850mm (24.8×22.8×33.5in)
N.W.(PC):	39.0kg(85.8 lb)
G.W.(PC):	42.0kg(92.4 lb)

Speaker Testing Method

1. Frequency response

Use Pink noise to test the speaker in the anechoic room, adjust the level to make the speaker work at its rated impedance and the power output is 1W, then test the frequency response 1m away from the speaker.

2. Sensitivity

Use full range Pink noise which was modified by EQ curve to test the speaker in the anechoic room, enlarge the signal to make the speaker work at its rated impedance and the power output is 1W, then test the sensitivity 1m away from the speaker.

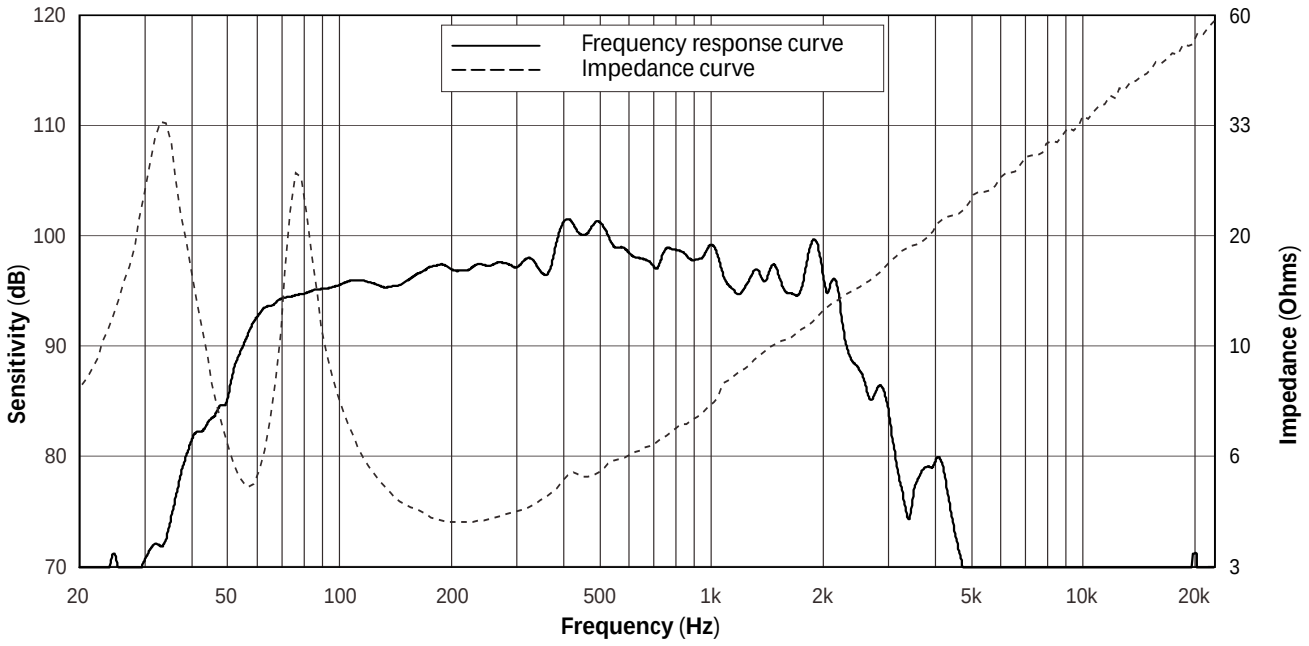
3. MAX.SPL

Use full range Pink noise which was modified by EQ curve to test the speaker in the anechoic room, enlarge the signal to make the speaker work at its instant power output level, then test the SPL 1m away from the speaker.

4. Rated Power

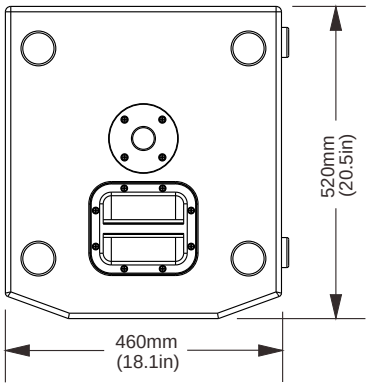
Use the pink noise according to IEC#268-5 to test the speaker, enlarge the signal for continuous 100hours, the rated Power is the power when the speaker will not incur hot damage or mechanics damage.

Frequency response curve & Impedance curve

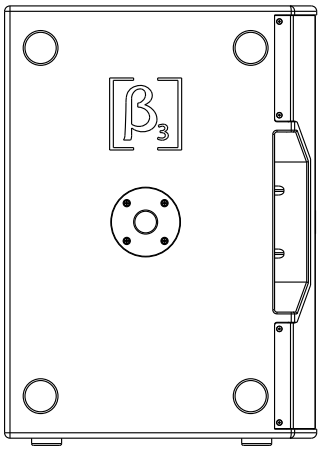


2D Dimension

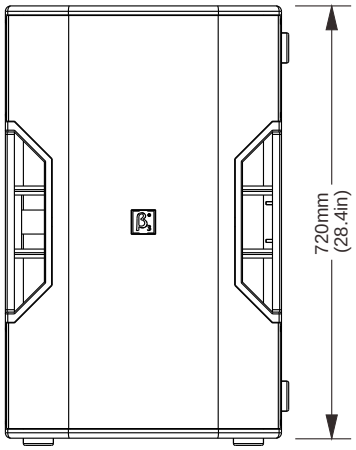
Top view



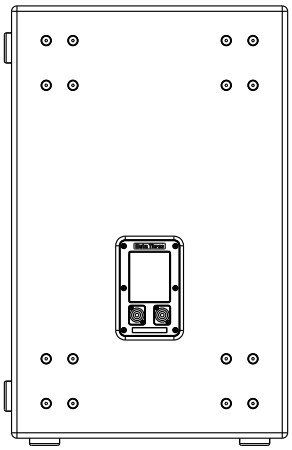
Side view



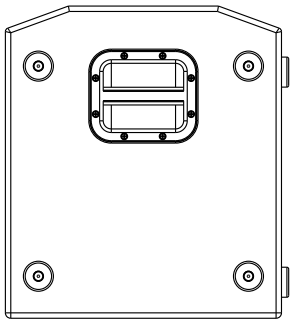
Front view



Back view



Bottom view



Notes:

Beta Three

www.elderaudio.com