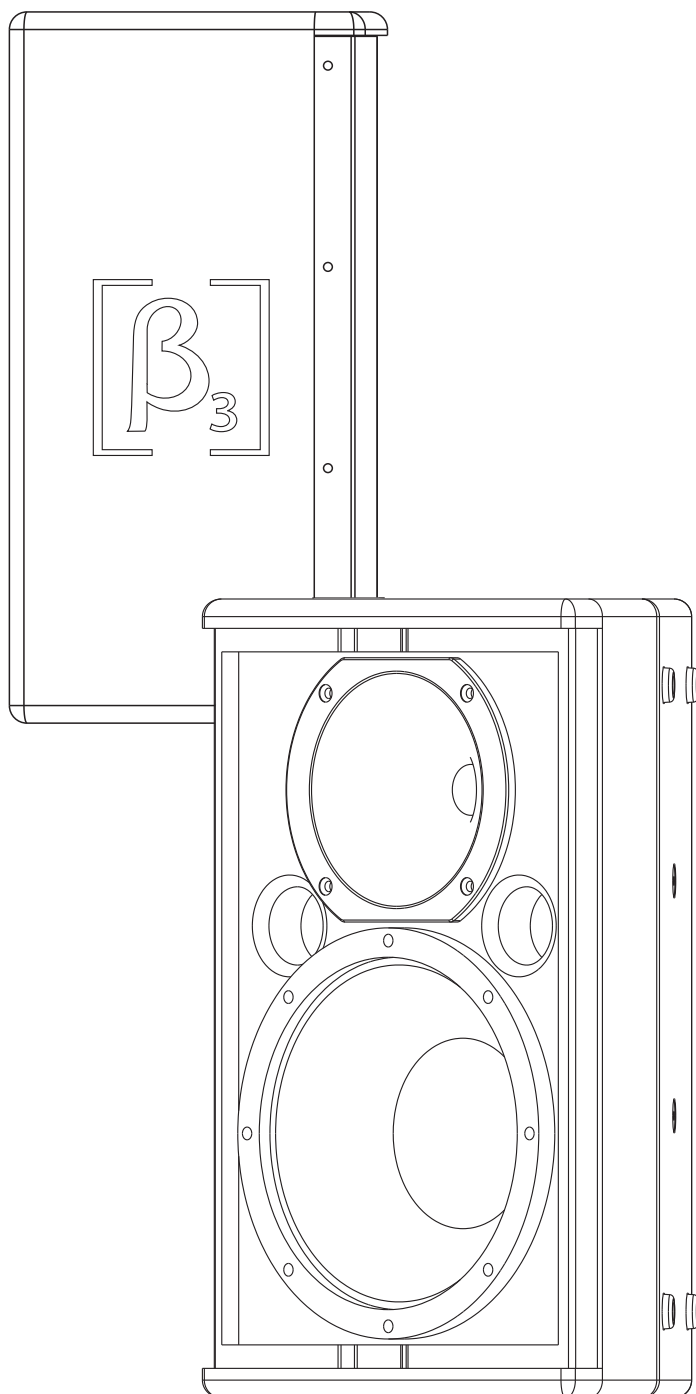




Beta Three



Σ5208II

**8" Two Way Full Range
Pro Loudspeaker System**

User Manual





UM-ES208II-20090828 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.*

	CAUTION RISK OF ELECTRICAL SHOCK DO NOT OPEN	
CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED PERSONNEL.		

	AVIS RISQUE DE CHOC ÉLECTRIQUE NE PAS OUVRIR	
ATTENTION : POUR RÉDUIRE LE RISQUE DE DÉCHARGE ÉLECTRIQUE, NE RETIREZ PAS LE COUVERCLE (OU L'ARRIÈRE). IL NE SE TROUVE À L'INTÉRIEUR AUCUNE PIÈCE POUVANT ÊTRE RÉPARÉE PAR L'USAGER. S'ADRESSER À UN RÉPARATEUR COMPÉTENT.		

⚠ *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 instruction manual 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 to manufacturer'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.

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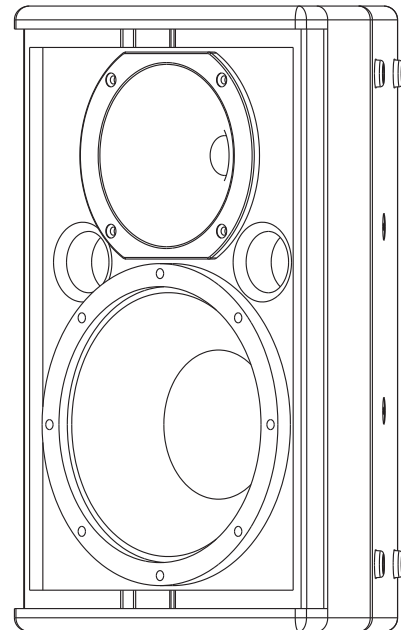
Product information subjects to be updated without notification, please visit www.elderaudio.com for latest update.

ΣS208II

8" Two Way Full Range Pro Loudspeaker System

Features

- Two transducers two way full range pro speaker with dynamic big power and high sensitivity.
- One 8" big power woofer.
- One 1" compression driver with PEI diaphragm.
- Dispersion 140°x140°.
- Frequency response 85~19kHz.
- Sensitivity 93dB, Max .SPL113dB.
- Rated power 100W, peak power400W.
- 4xM8 hanging and support point.



Description

Σ S208II is a two way full range speaker system with high sensitivity, high SPL and excellent dispersion. It is mainly designed for the medium and small applications require high SPL and high reliability venues. It can be used separately or with Σ series subwoofer, suitable for conference, background music, bar, dance hall and other public venues, also can be used as the assistant speaker system or monitor system in big sound reinforcement system.

Σ S208II adopts one 8" woofer and one 1" compression driver with PEI diaphragm, cabinet is made of MDF coated by PU paint.

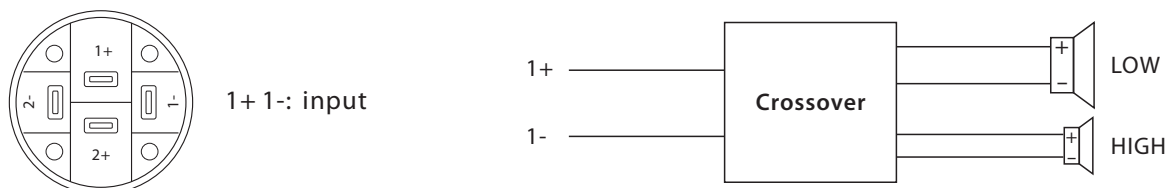
Flexible flying mounting system is very convenient for different applications.

Applications

- Bar and dance hall
- Small size meeting room
- Performance
- Multifunctional hall
- Public area

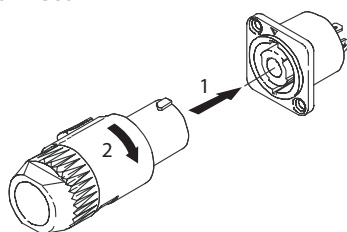
Two NL4 connectors are available for amplifier connection. Paralelled connector is very convenient for another speaker connection.

Speakon :

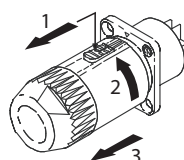


NL4 Connection

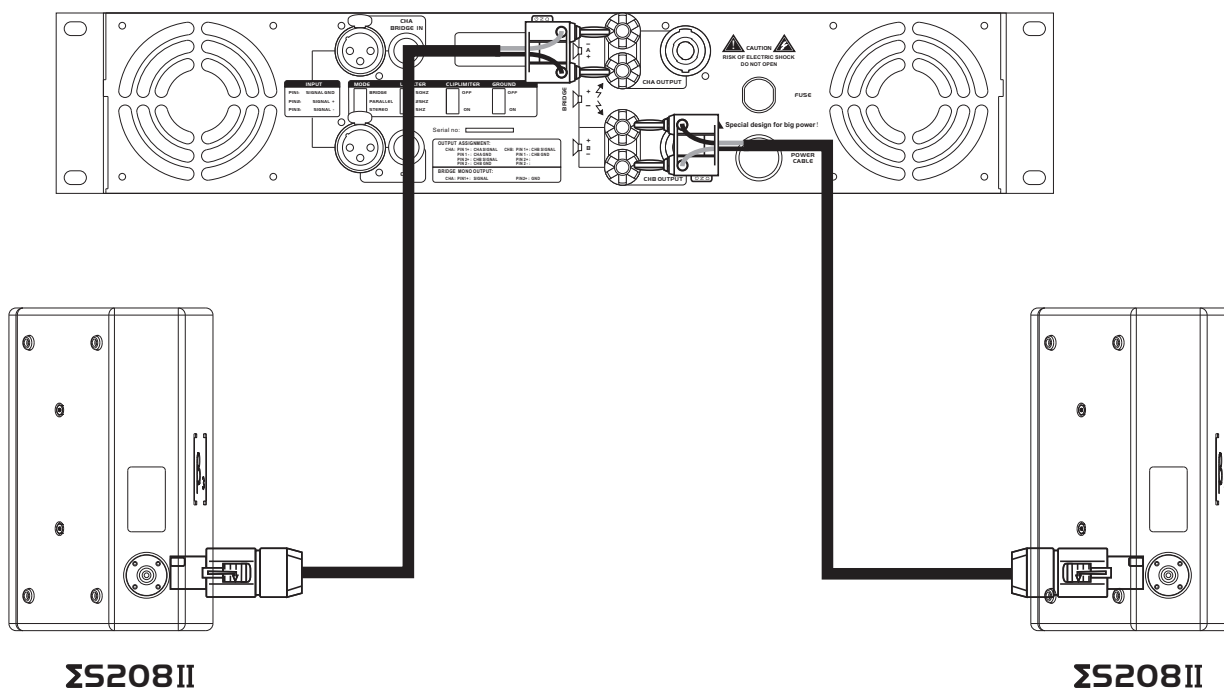
1. Connect



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.

INSTALLATION

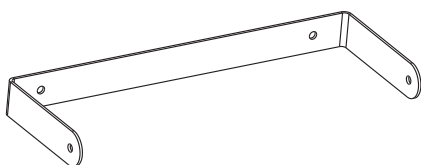
Σ5208II
8" Two Way Full Range Pro Loudspeaker System



Mounting Accessories

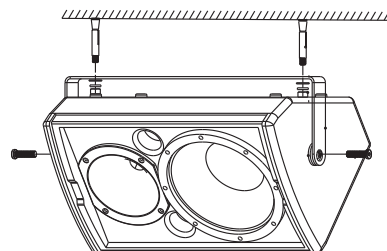
Four mounting points are very convenient and efficient for the different application with special brackets.

1. U-bracket

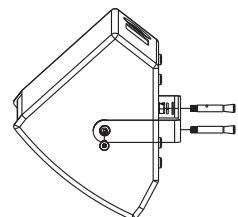


Installation Reference

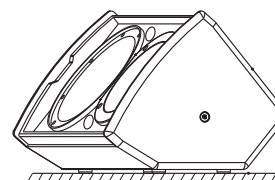
1. Ceiling



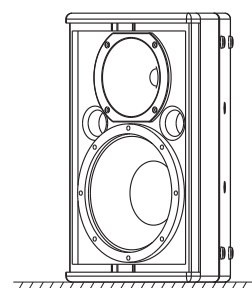
2. Wall



3. Monitor



4. Stack



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

Technical Sheet

System:	Passive full range wooden speaker with painting
Woofer:	1 × 8" Woofer
Tweeter:	1 × 1" compression driver
Frequency response(-3dB): ¹	85Hz-19kHz
Frequency response(-10dB): ²	93dB
Max. SPL(1m): ³	113dB/119dB(PEAK)
Power:	100W (RMS) ⁴ 200W (MUSIC) 400W (PEAK)
Dispersion (H×V) :	140°×140°
Rated impedance:	8 Ohms
Crossover point:	2.5kHz
Cabinet:	MDF
Mounting accessories:	4 × M8 Bracket Lifting Point
Painting:	Cabinet coated by Polyurethane paint; grille is powder coated
Connector:	NL4 × 1
Cabinet dimension:	258 × 408 × 247mm (W×D×H) (10.2 × 16.1 × 9.7in)
Package dimension:	337 × 627 × 498mm (W×D×H) (13.3 × 24.7 × 19.6in)
Net weight(2pcs):	18.0kg(39.6lbs)
Gross weight(2pcs):	22.0kg(48.4lbs)
Optional mounting accessories:	1. U-bracket

Speaker Testing Method

1. Frequency Response

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

2. Sensitivity

Use full range Pink noise which has been modified using an EQ curve to test the speaker in the anechoic chamber, increasing the signal to make the speaker work at its rated impedance and set the power output at 1W, then test the sensitivity 1m away from the speaker.

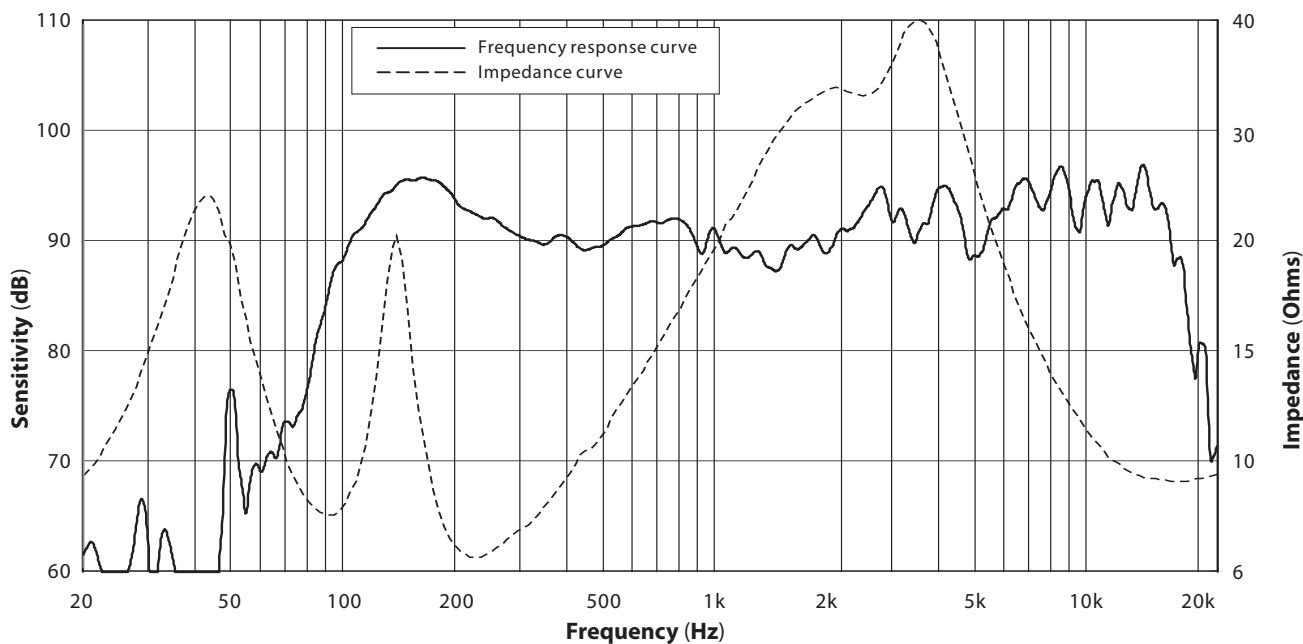
3. MAX.SPL

Use full range Pink noise which has been modified using an EQ curve to test the speaker in the anechoic chamber, increase the signal to make the speaker work at its maximum power output level, then test the SPL 1m away from the speaker.

4. Rated Power

Use Pink noise to the IEC#268-5 standard to test the speaker, increase the signal for a continuous period of 100 hours, the rated power is the power when the speaker will show no visible or measurable damage.

Frequency Response And Impedance Curve



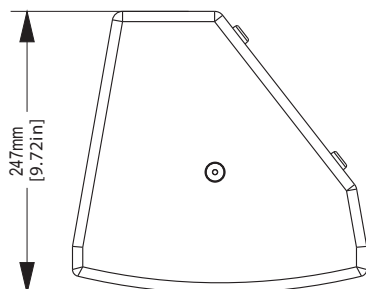
TECHNICAL SPECIFICATION

Σ5208II
8" Two Way Full Range Pro Loudspeaker System

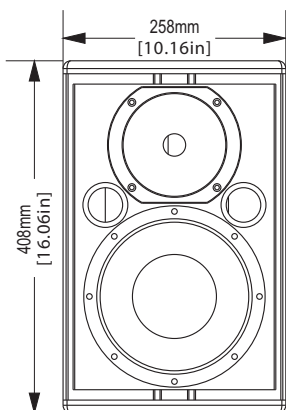


2D Dimension

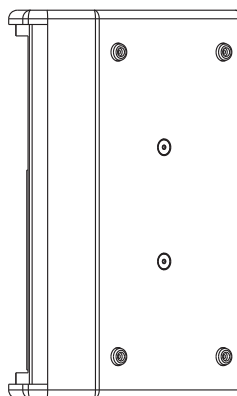
Top view



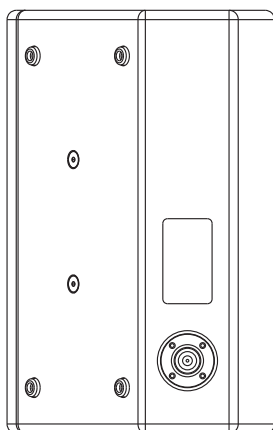
Front view



Side view



Back view



Notes:



Beta Three

www.beta3pro.com