X8i

8" Two-way
Full Range Speaker

User Manual
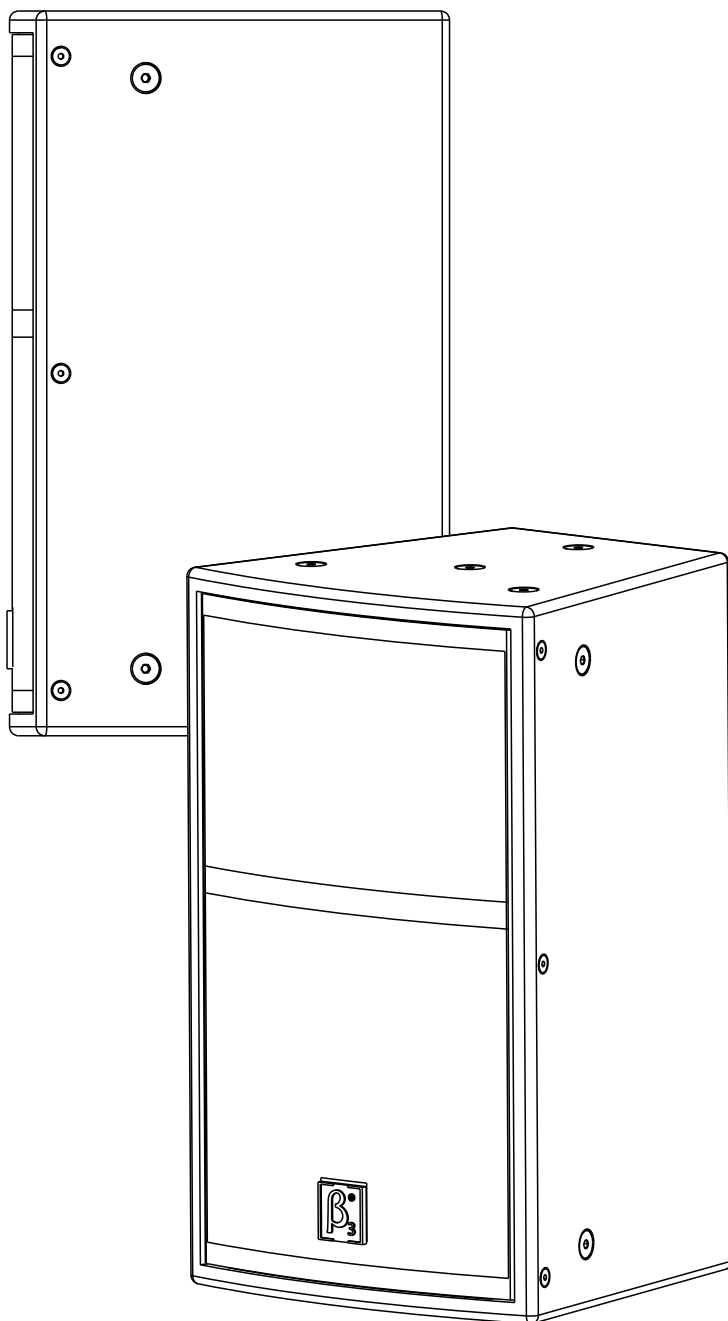
SAFETY INSTRUCTIONS

PLEASE READ THIS MANUAL FIRST

Thank you for a buying β₃ 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.

β₃ **X8i**
8" Two-way Full Range Speaker

Beta Three

CONTENT

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

X8i
8" Two-way Full Range Speaker

Features

- Compact cabinet design
- One 8" LF driver
- One 4" cone paper HF driver
- 100° x 100° coverage pattern
- Sensitivity 94dB, Max. SPL 119dB(Peak)
- Rated power 80W, Short term max. power 320W
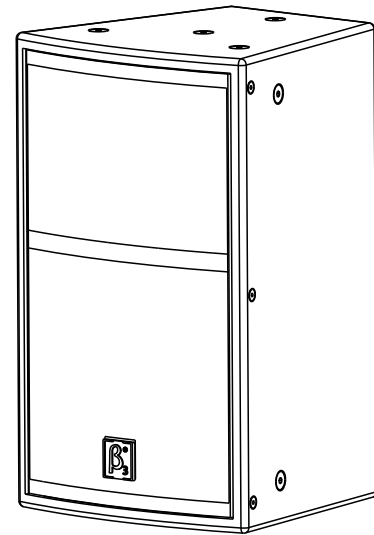
Description

$3^®$ X8i is a compact 2-way full range speaker. X8i is the main speaker applicable for high reliability, high sound quality required small venues and assistant speaker for mid to big venues. X8i can be used alone, also can be used with the X15Bi subwoofer to form a high quality full range system.

X8i adopts the latest design 4" cone paper HF driver, matching with the 8" LF driver provides natural and sweet sound.

The drivers analyze and optimize the magnetic circuit and short circuit circle by finite element, achieve the super low distortion and max. intelligibility under the high SPL. Can achieve the modular quick adjustment by matching with the XC2.6 pro. digital speaker management processor.
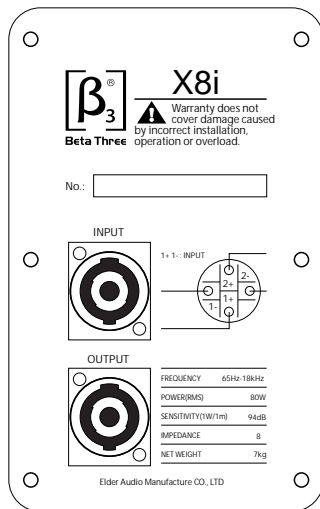
X8i adopts the multi-functional structure design and be suitable for touring performance and fixed instillation.
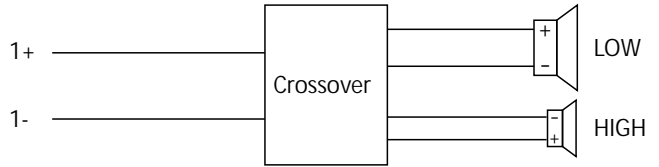
Applications

- Church
- Club
- Theater
- Small Auditorium
- Touring performance
- Multifunctional hall

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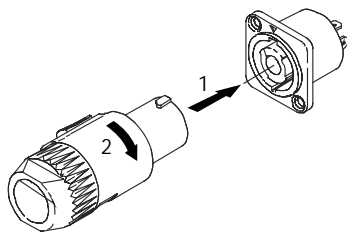
Terminal Plate

1+ 1- INPUT

β3 ® X8i
Beta Three

Warranty does not cover damage caused by incorrect installation, operation or overload.

No.:

INPUT

1+ 1- : INPUT

OUTPUT

FREQUENCY	65Hz-18kHz
POWER(RMS)	80W
SENSITIVITY(1W/1m)	94dB
IMPEDANCE	8
NET WEIGHT	7kg

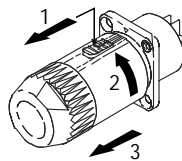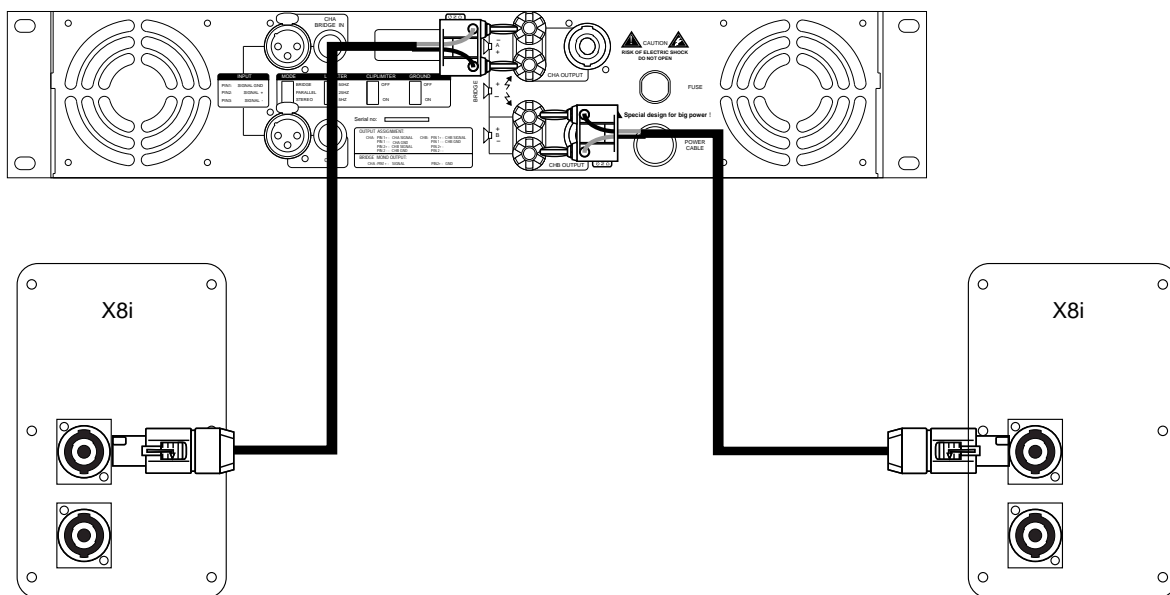Elder Audio Manufacture CO., LTD

Crossover — LOW +/-

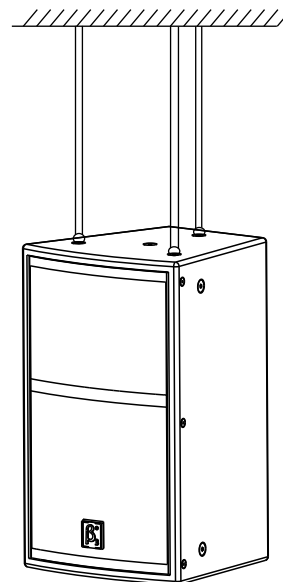— HIGH -/+

NL4 Connection

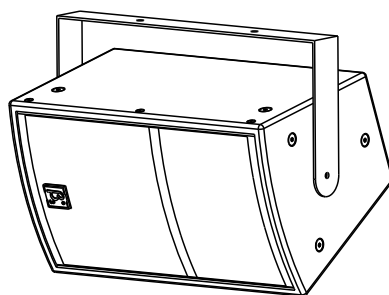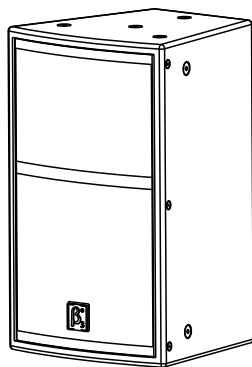1. Connect

2. Disconnect

System Connection Reference

X8i

X8i

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

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

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Installation Reference

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

Technical Specification

System:	8" Two-way Full Range Speaker
System components:	1× 8" LF
	1× 4" HF
Frequency response(-3dB):[1]	65Hz-18kHz
Sensitivity(1W@1m):[2]	94dB
Max. SPL(1m):[3]	113dB/119dB(PEAK)
Power:	80W (RMS) [4]
	160W (MUSIC)
	320W (PEAK)
Dispersion(H x V):	100° x 100°
Rated impedance:	8 Ohms
Crossover point:	2.8kHz
Cabinet:	Wedge shape
Mounting accessories:	10× M10 Hanging point
Painting:	Cabinet coated by Polyurethane paint; grille is powder coated
Connector:	Nl4 x 2
Cabinet dimension: (W x D x H)	250 x 246 x 400mm (9.8 x 9.7 x 15.7in)
Package dimension: (W x D x H)	310 x 310 x 480mm (12.2 x12.2 x 18.9in)
Net weight(pc):	7.0kg(15.4 lbs)
Gross weight(pc):	8.4kg(18.5 lbs)

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.
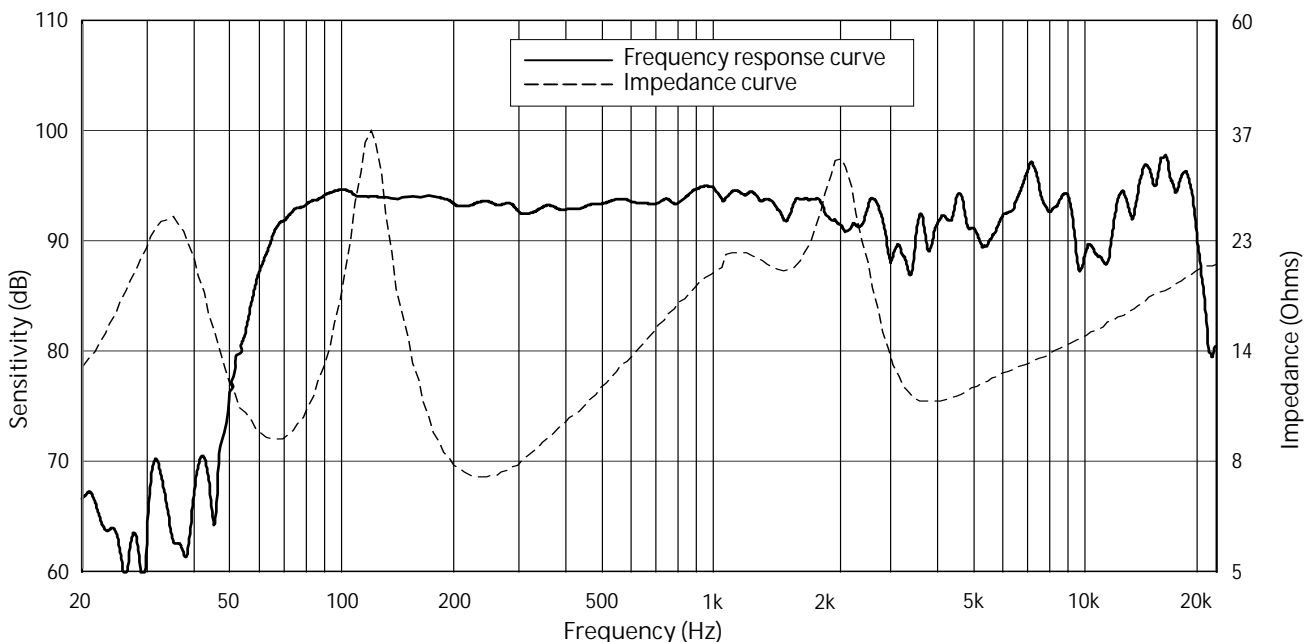
3. MAX.SPL

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 SPL1m away from the speaker.
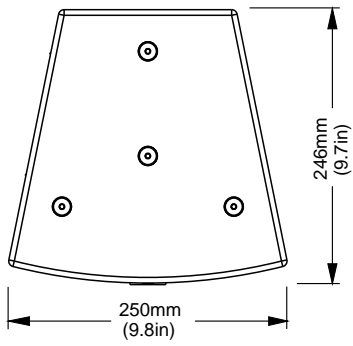
4. Rated Power

Use Pink noise to the IEC#268-5 standard to test the speaker, increase the signal for a continuous period of100 hours, the rated power is the power when the speaker will show no visible or measurable damage.

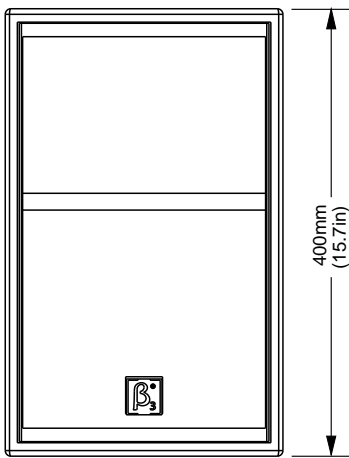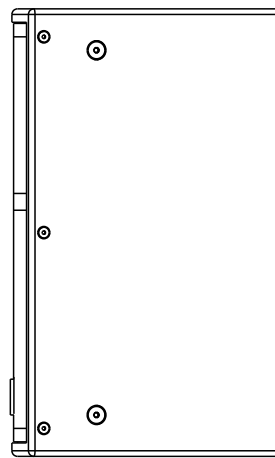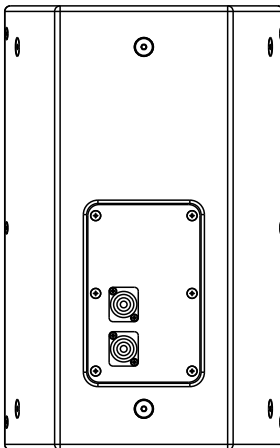## Frequency response curve & Impedance curve

2D Dimension

Top view

246mm
(9.7in)

250mm
(9.8in)

Front view

400mm
(15.7in)

Side view

Back view

Notes:

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