



Beta Three MU15 15 Inch Two Way Full Range Speaker with Built-In Crossover User Manual

[Home](#) » [Beta Three](#) » Beta Three MU15 15 Inch Two Way Full Range Speaker with Built-In Crossover User Manual

Contents [[hide](#)]

- 1 Beta Three MU15 15 Inch Two Way Full Range Speaker with Built-In Crossover
- 2 SAFETY INSTRUCTIONS
- 3 INTRODUCTION
 - 3.1 MU15 15" two-way full-range speaker with built-in crossover
- 4 Description
- 5 Applications
- 6 Terminal Plate
 - 6.1 NL4 Wiring Connection
- 7 System Connection Reference
- 8 Speaker Wiring
- 9 Mounting Accessories
- 10 Installation Reference
- 11 TECHNICAL SPECIFICATION
- 12 Speaker testing method
- 13 Frequency response curve & Impedance curve
- 14 2D Dimension
- 15 Documents / Resources
- 16 Related Posts





SAFETY INSTRUCTIONS

PLEASE READ THIS MANUAL FIRST

Thank you for buying the 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:** TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE THE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED PERSONNEL

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 the 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 cover.

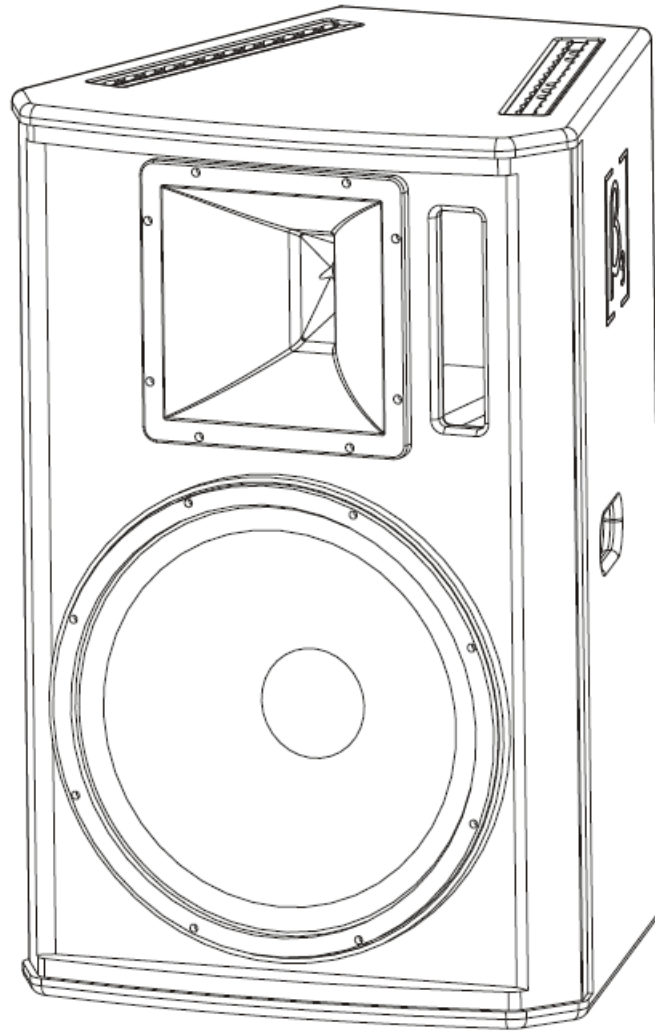
Product information is subject to be updated without notification, please visit www.elderaudio.com for the latest update.

INTRODUCTION

MU15 15" two-way full-range speaker with built-in crossover

Features

- Two way full range phase inverted speaker with 15" woofer and 3" compression driver.
- Dispersion 60 x40 , the controlled frequency reach to 1kHz.
- Advanced free protection design assure the reliability of tweeter.
- Sensitivity 98dB, Max.SPL 124dB.
- Rated power 360W, peak power 1440W.
- Standard flying mounting system .
- The necessary flying mounting accessories will be
- attached, the Max. installation weight reach to 385Kg to make the safety of the speaker.
- Powder coated grille can be used outdoors for 5 years. The foam backside of the grille can prevent the rain.
- The new paint materials and advanced painting technology make the surface very rigid.



Description

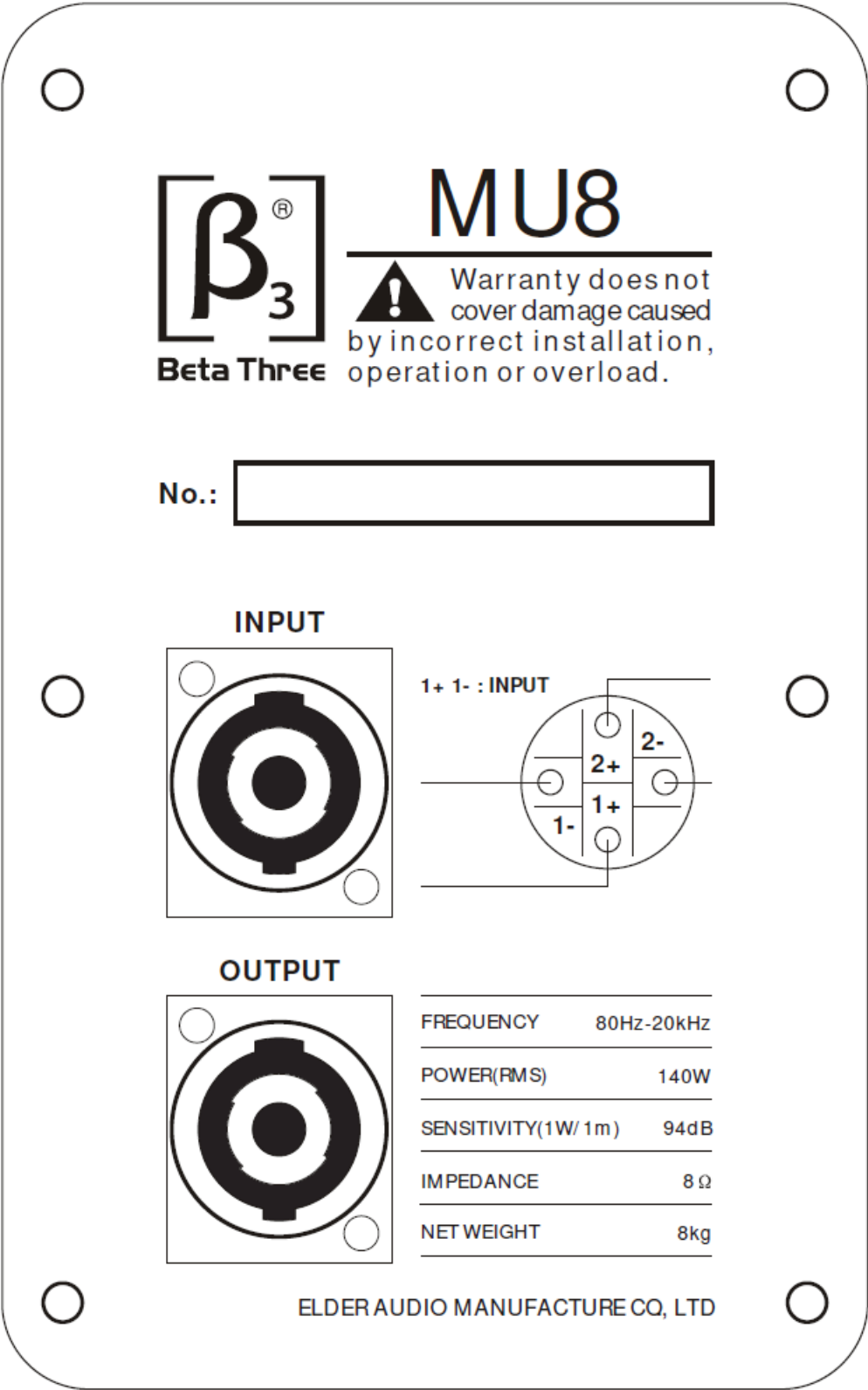
3 MU15 is a two way full range speaker adopting the new structure and new painting technology. It integrates one 15" Neodymium woofer with 75MM voice coil and one 3" compression driver. The rated power is 360W, the peak power is 1440W. Symmetrical magnet circuit design reduce the impedance effectively and enhance the LF sound quality. Neodymium transducers reduce 15% weight. Cabinet is made of 15mm birch plywood with advanced environmental protection Polyurethane-based painting which is very rigid. The cabinet strength reach to 4500N. Q235 grille is coated by powder to provide strong ultra-Weatherability, can be used outdoors for 5 years. The backside foam of grille can prevent the rain. MU15 adopts the protection free design, which reduce the interference and enhance the sound quality. A lot of new materials were used on MU15, for example, the diaphragm is made from magnesium to meet the sound requirement. MU15 is mainly designed for conference room, multifunctional hall, auditorium, church, living performance.

Applications

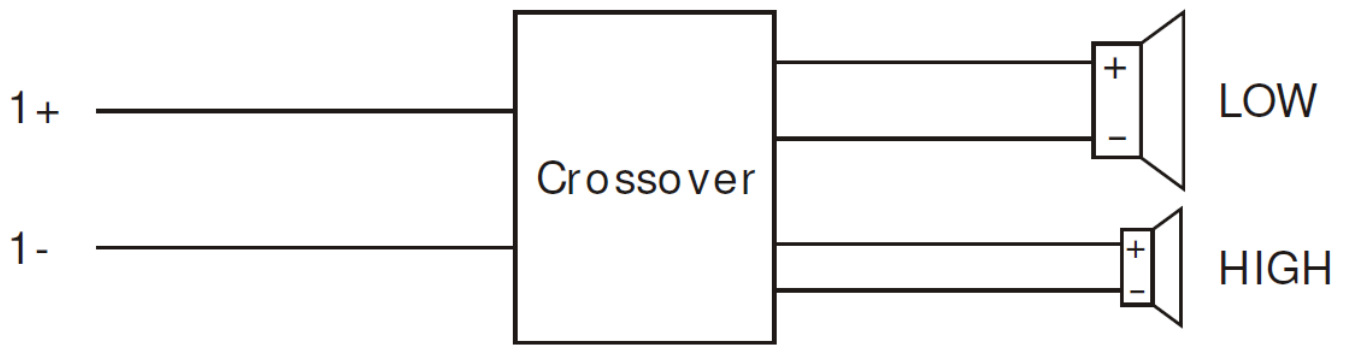
- Church
- Small Auditorium
- Conference room
- Small performance
- Multifunctional hall

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

Terminal Plate

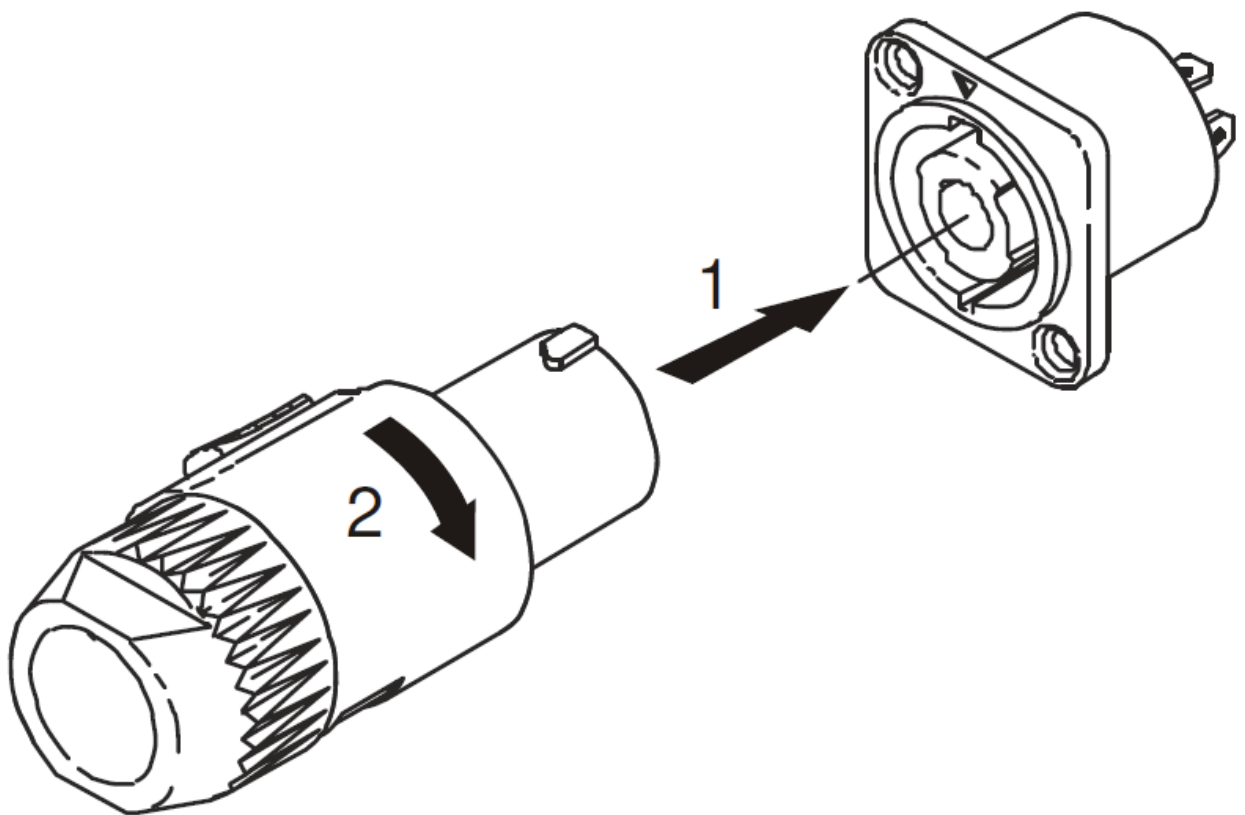


1+ 1- INPUT

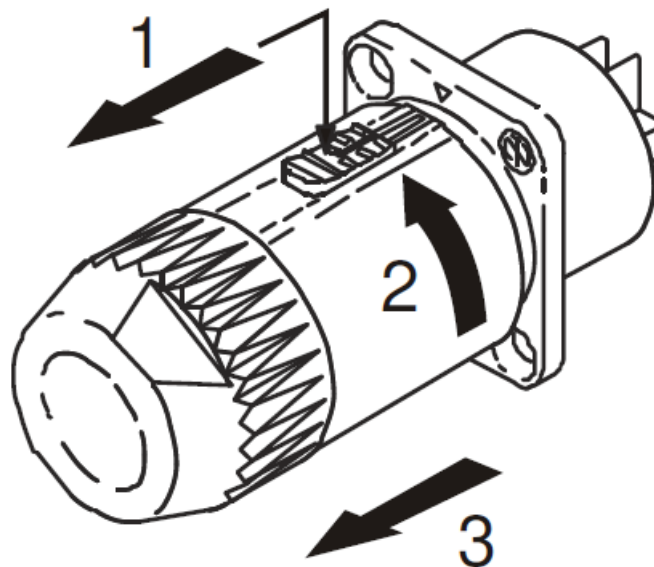


NL4 Wiring Connection

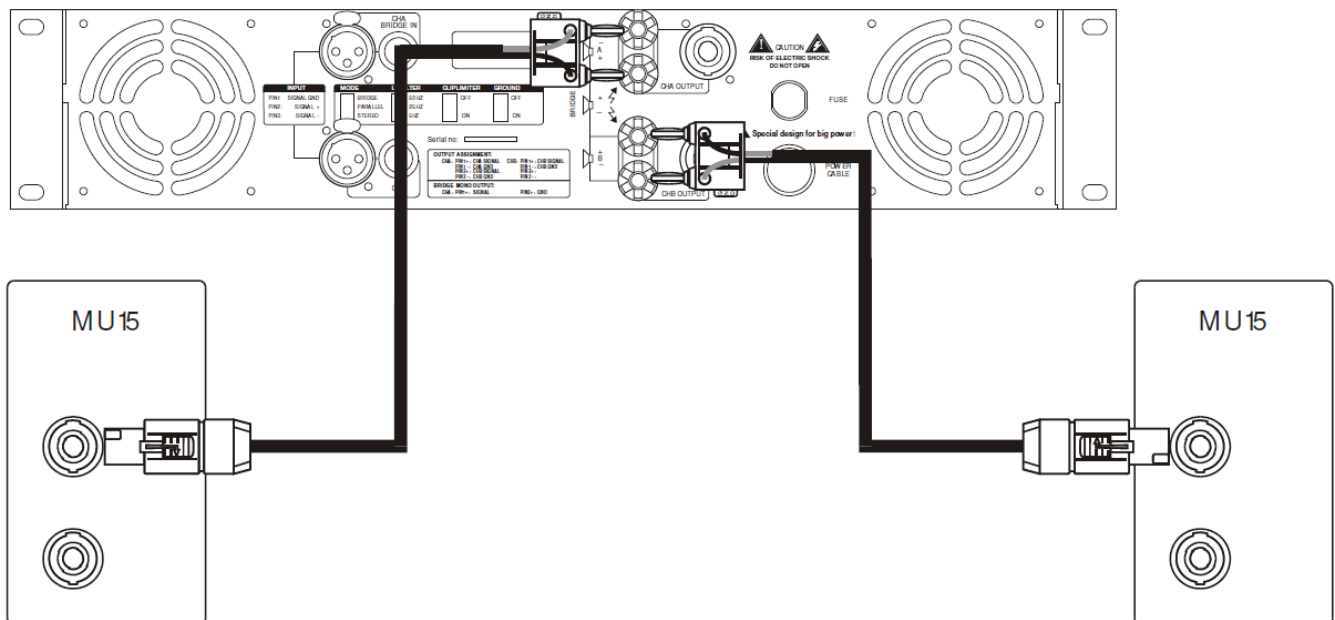
Connect



Disconnect



System Connection Reference

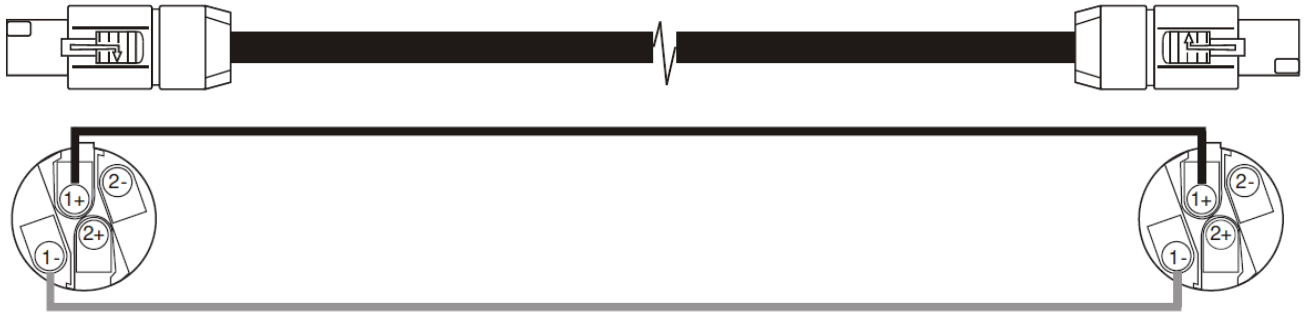


- **Attention:** The impedance of the connected speaker must match the impedance of the amplifier output.
- **Attention:** Make sure the polarity of the speaker and amplifier is correct.



Speaker Wiring

1. Banana plugs to NL4 **Connect to amplifier & Connect to a speaker**
2. **NL4 to NL4** Connect to amplifier & Connect to a speaker



Mounting Accessories

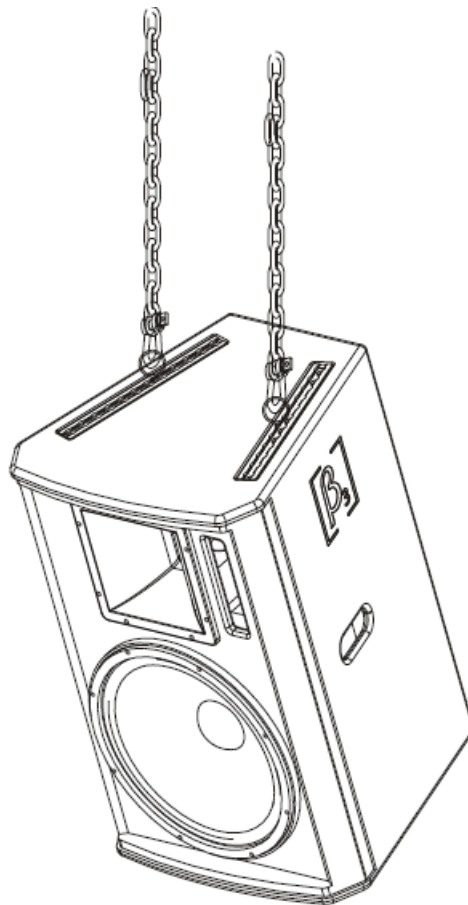
The standard flying mounting hardware is very convenient for different installations and applications.

1. Speaker stand SPS-502BC black
2. Standard flying mounting ring

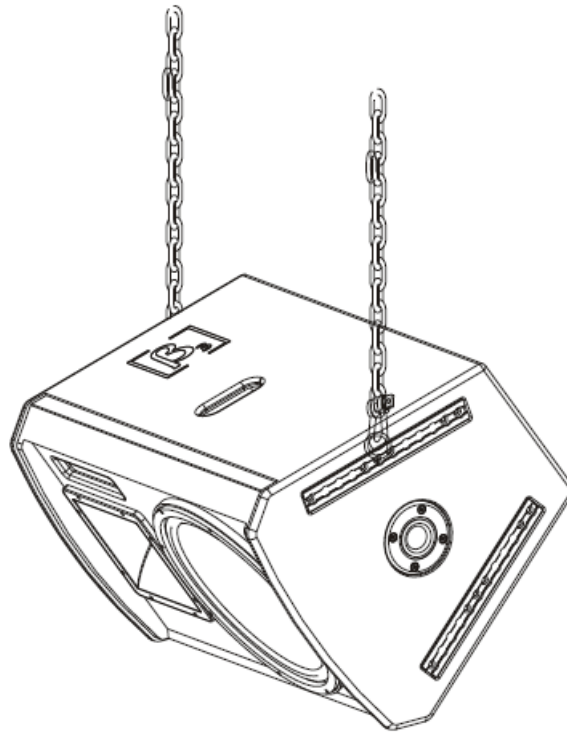
Warning: Make sure the mounting accessories safety factor not less than 5:1 or meet the local standard during installation.

Installation Reference

1. Vertical flying mounting installation



2. Horizontal flying mounting installation



TECHNICAL SPECIFICATION

Technical Specification

- System: Passive full range wooden speaker with painting
- Tweeter: 1 3" compression driver
- Woofer: 1 15" Neodymium woofer
- Frequency response(-3dB): 45Hz-17kHz
- Frequency response(-10dB): 35Hz-20kHz
- Sensitivity(1W@1m): 98dB
- Max. SPL(1m): 124dB/ 130dB(PEAK)
- Power: 360W (RMS) 720W (MUSIC) 1440W (PEAK)
- Dispersion H V: 60X40
- Rated impedance: 8 Ohms
- Crossover point: 1.7kHz
- Cabinet: Wedge shape
- Mounting accessories: Standard flying mounting hardware
- Handle: 2 Wooden handle
- Painting: Cabinet coated by Polyurethane paint; grille is powder coated
- Connector: NL4 2
- Cabinet dimension: 485X485X720mm
- Package dimension: 595X595X840mm
- (WD H) (23.4 23.4 33.1in)
- Net weight(pc): 28.0kg(61.6 lb)
- Gross weight(pc): 32.5kg(71.5 lb)
- Optional mounting accessories: Flying mounting ring, speaker stand

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.

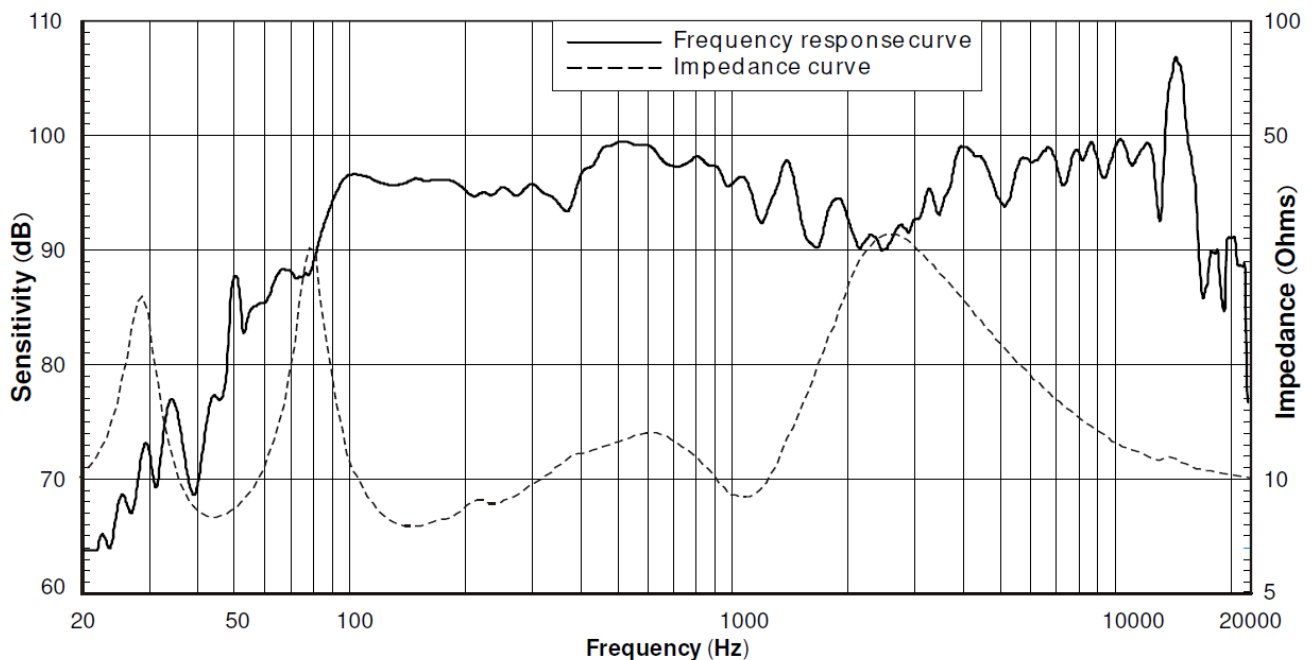
3. MAX.SPL

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.

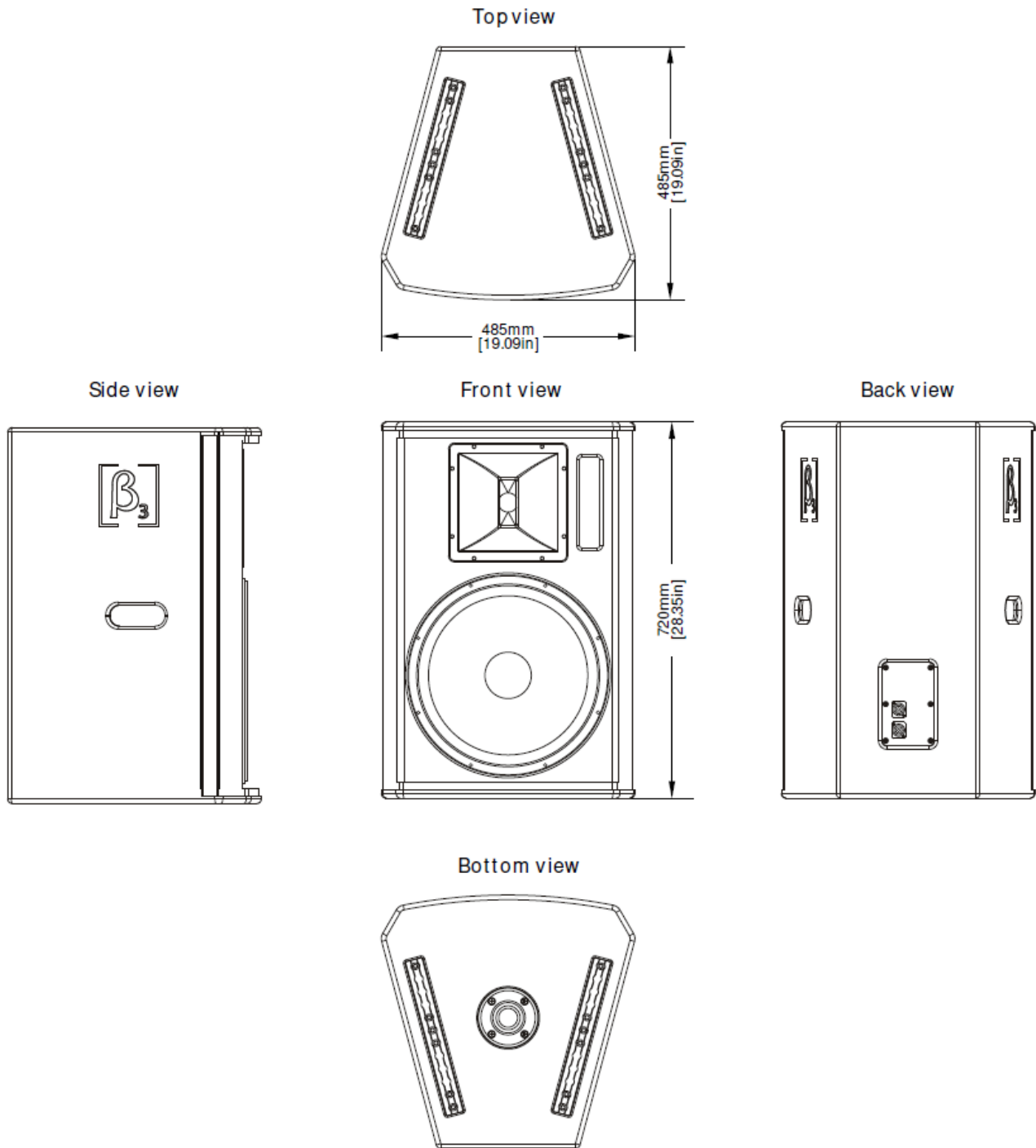
4. Rated Power

Use the pink noise according to IEC#268-5 to test the speaker, and enlarge the signal for a 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



Documents / Resources

 	<p>Beta Three MU15 15 Inch Two Way Full Range Speaker with Built-In Crossover [pdf] User Manual</p> <p>MU Series Pro Loudspeaker System, MU15, 15 Inch Two Way Full Range Speaker with Built-In Crossover, MU15 15 Inch Two Way Full Range Speaker with Built-In Crossover</p>
--	--