

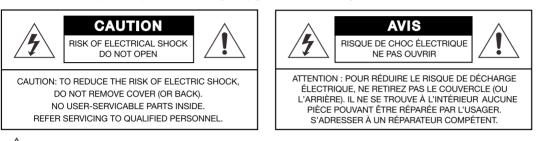


## SAFETY INSTRUCTIONS

## PLEASE READ THIS MANUAL FIRST

Thank you for a buying  $\beta_s$  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.

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

A 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.

#### INTODUCTION

MU10

10" two way full range speaker with built-in crossover

#### Features

- Two way full range phase inverted speaker with 10" woofer and 1.7" compression driver.
- Dispersion 80°x50°, the controlled frequency reach to 1kHz.
- Advanced free protection design assure the reliability of tweeter.
- Sensitivity 94dB, Max.SPL 114dB.
- Rated power 200W, peak power 800W.
- Standard flying mounting system.
- The necessary flying mounting accessories will be attached, the Max. installation weight reach to 385Kg to make the safety of 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

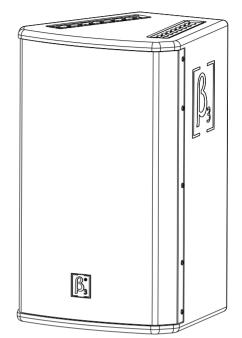
3<sup>®</sup> MU10 is a two way full range speaker adopting the new structure and new painting technology. It integrates one 10" woofer with 75mm voice coil and one 1.7" compression driver . The rated power is 200W, the peak power is 800W. Symmetrical magnet circuit design reduce the impar HD effectively and enhance the LF sound quality.

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.

MU10 adopts the protection free design, which reduce the interfere and enhance the sound quality.

A lot of new materials were used on MU10, for example, the diaphragm is made from magnalium to meet the sound requirement.

MU10 is mainly designed for conference room, multifunctional hall, auditorium, church, living performance.



#### Applications

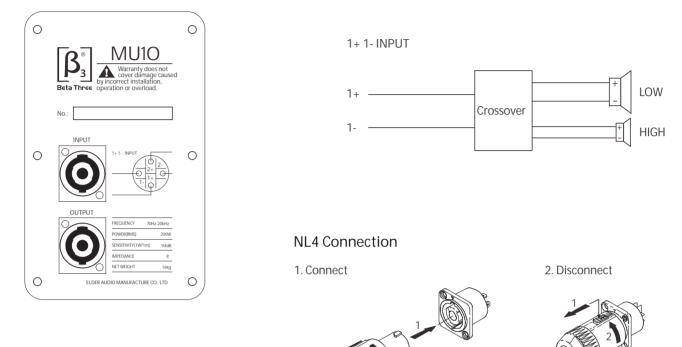
- Church
- Small Auditorium
- Conference room
- Small performance
- Multifunctional hall



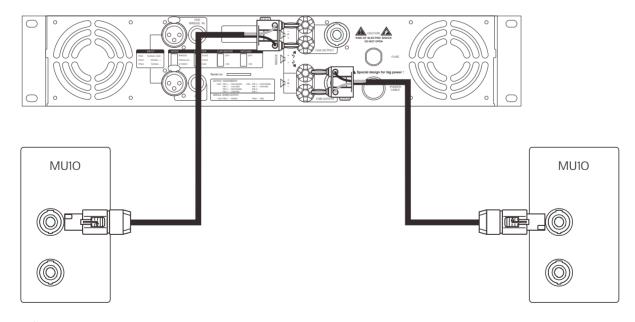


Two NL4 connectors are available for amplifier connections. Paralelled connector is very convenient for another speaker connection.

#### **Terminal Plate**



### System Connection Reference



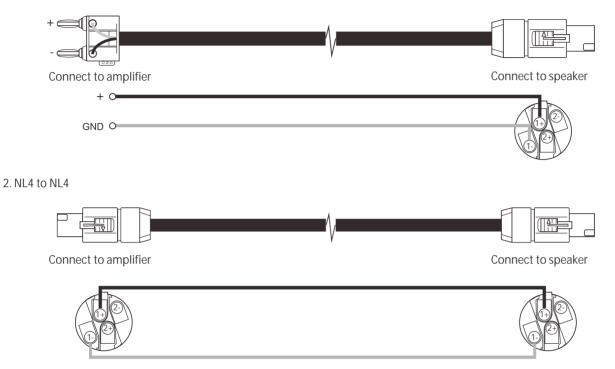


*Attention:* The impedance of connected speaker must match the impedance of amplifier output. Attention: Make sure the polarity of speaker and amplifier correctly.

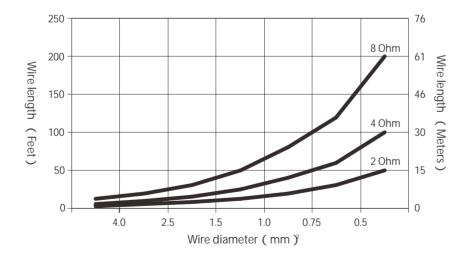
# MU10 MU Series Pro Loudspeaker System

## CONNECTION

### Speaker Wiring



3. Consumption curve of connection cable(Only for reference, the result is different if adopting the different cables)



1. Banana plugs to NL4



#### Mounting Accessories(Optional)

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

1. Speaker stand SPS-502BC Black



2. Standard flying mounting ring



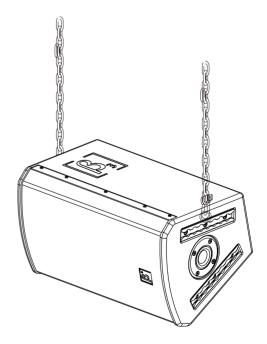
Warning: Make sure the mounting accessories safety factor not less than 5:1 or meet the local standard during installation.

#### 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 × 1.7"compression driver                                    |
| Woofer:                                | 1 × 10" woofer  |
| Frequency response(-3dB): <sup>1</sup> | 70Hz-20kHz  |
| Sensitivity(1W@1m): <sup>2</sup>       | 94dB  |
| Max. SPL(1m): <sup>3</sup>             | 114dB/120dB(PEAK)   |
| Power:                                 | 200W (RMS) <sup>4</sup><br>400W (MUSIC)<br>800W (PEAK)        |
| Dispersion(HÁV):                       | 80 ° × 50 °   |
| Rated impedance:                       | 8 Ohms  |
| Crossover point:                       | 1.8kHz  |
| Cabinet:                               | Wedge shape   |
| Mounting accessories:                  | Standard flying mounting hardware                             |
| Handle:                                | 1 × Wooden handle   |
| Painting:                              | Cabinet coated by Polyurethane paint; grille is powder coated |
| Connector:                             | NL4 × 2   |
| Cabinet dimension:<br>(W x D x H)      | 344 × 327 × 510mm<br>(13.5 × 12.9 × 20.1in)                   |
| Package dimension:<br>(W x D x H)      | 410 × 410 × 610mm<br>(16.1 × 16.1 × 24.0in)                   |
| Net weight(pc):                        | 16kg(35.2 lb)   |
| Gross weight(pc):                      | 18kg(39.6 lb)   |
| Optional mounting accessories:         | Flying mounting ring, speaker stand                           |

#### Frequency response curve & Impedance curve



## 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

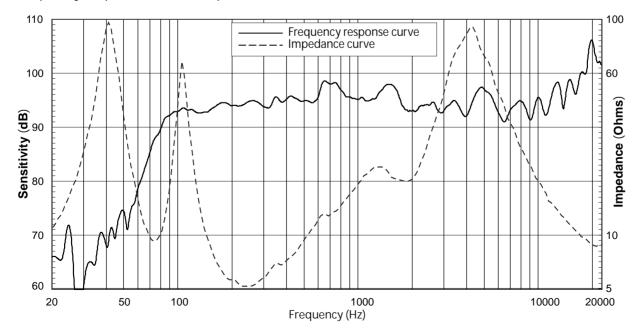
Use full range Pink noise which has been modified using an EQ curve to test the speaker in the anechoic chamber, increasing the signal to make the speaker work at its rated impedance and set the power output at 1W, then test the sensitivity 1m away from the speaker.

#### 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.

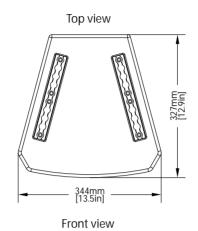
#### 4. Rated Power

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.

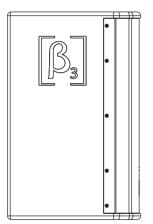


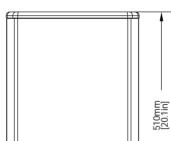


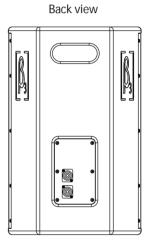
#### 2D Dimension



Side view







Bottom view

β,



Notes:



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