

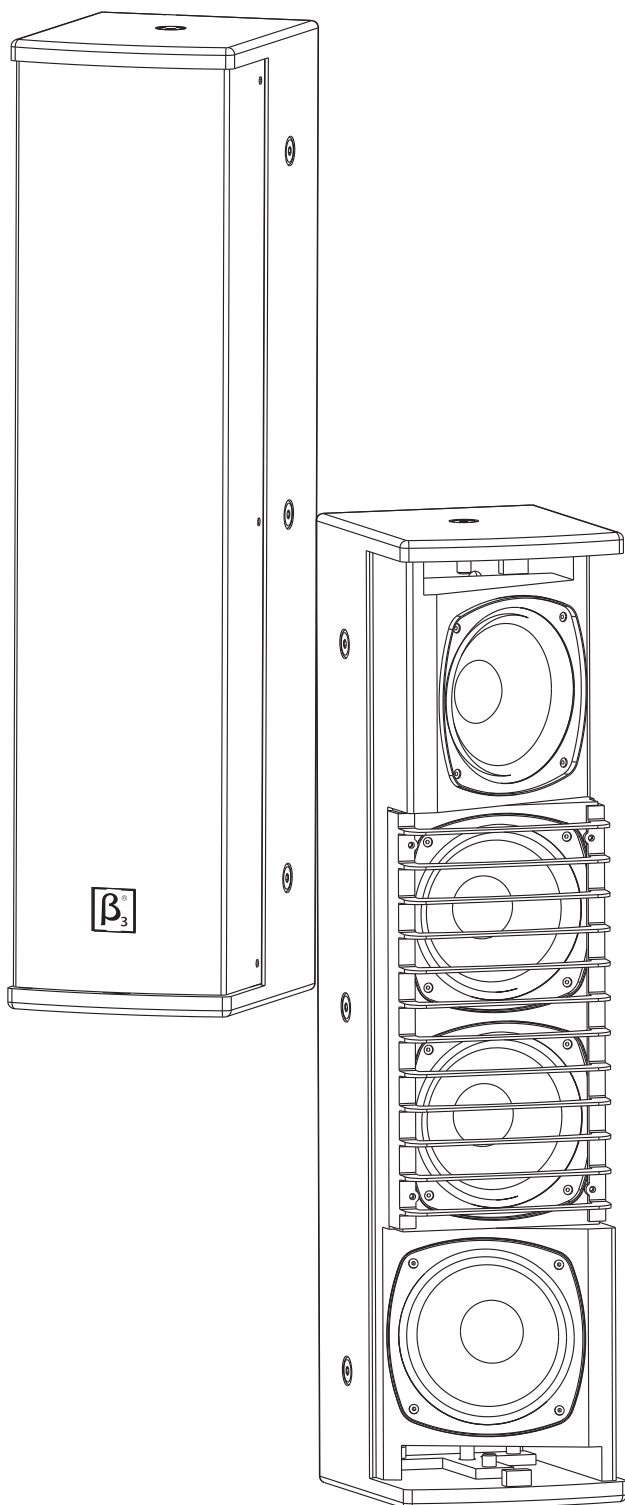


Beta Three

## T4.4

4 x 4 line array full  
range column speaker

### User Manual





UM-T4. 4-20090505 ver A



## SAFETY INSTRUCTIONS

### PLEASE READ THIS MANUAL FIRST

Thank you for a buying  $\beta_3$  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.*

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

|  |   |   |
|--|---|---|
|   | <b>AVIS</b><br>RISQUE DE CHOC ÉLECTRIQUE<br>NE PAS OUVRIR |  |
| ATTENTION : POUR RÉDUIRE LE RISQUE DE DÉCHARGE<br>ÉLECTRIQUE, NE RETIREZ PAS LE COUVERCLE (OU<br>L'ARRIÈRE). IL NE SE TROUVE À L'INTÉRIEUR AUCUNE<br>PIÈCE POUVANT ÊTRE RÉPARÉE PAR L'USAGER.<br>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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# T4.4

4 x 4 line array full range column speaker

## Main Features

- A vertical line array of 4 x 4" full range transducers providing high fidelity sound
- Frequency response 90Hz-16KHz(-3dB).
- Sensitivity 92dB, Max SPL 113dB.
- Dispersion 180 x 30°.
- Rated power 120w, max power 480w.
- Plywood cabinet with durable textured paint finish.
- Can be installed alone or stacked in multiples using the optional accessories. Suitable for many venues including inside and outside undercover environments.
- Patents pending for central diffuser plate.
- Designed for high speech intelligibility and natural sounding music.
- Quick install U bracket included.

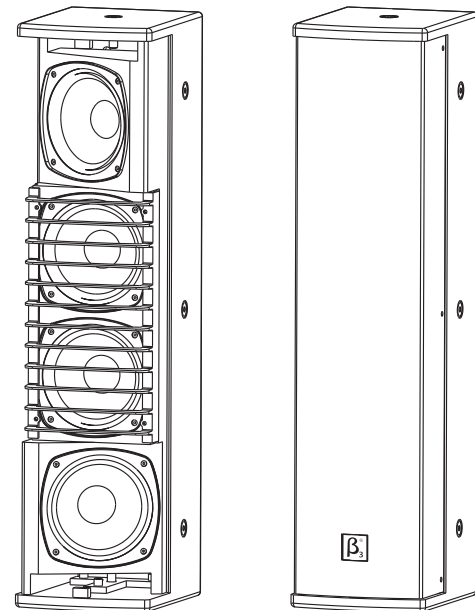
## Product Description

The β<sub>3</sub>® T4.4 line array full range column speaker is one of three speakers in the T Series. This attractively designed, 120W RMS, innovative speaker delivers high speech intelligibility and natural sounding music in a wide range of applications through its 4" full range drivers. A vertical line array of 4 drivers provides control over a horizontal and vertical pattern of 180° x 30° and reproduces the critical vocal range 90Hz-16kHz without requiring a processor.

A diffuser plate (patent pending) is fitted to the centre drivers to assist with the vertical pattern control. The T4.4 speaker can either be used in singles, multiples or stacked using the optional accessories in many indoor applications such as Houses of Worship, Shopping Malls, Transport Terminals, Theme Parks, Meeting Rooms, Schools, Small Auditoriums. When stacking the T4.4 end on end to create a taller line array the height of the line array must correspond to the ear height range of the listeners in both seated or standing positions.

The T4.4 is manufactured from 15 mm plywood meeting a tensile strength of 3500N and is finished in either black or white using a very durable textured paint. The metal speaker grill is powder coated and passes all rust resistance tests.

The T4.4 is shipped with a quick install U bracket.



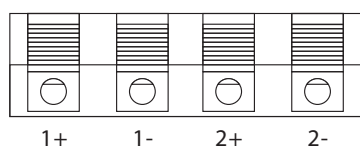
Adding the optional line transformer accessory makes the T4.4 line array speaker very versatile in 70/100v systems. To enhance the already great performance of the T4.4 you can use the EQ filters provided.

## Applications

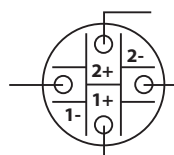
- churches/temples
- multifunction halls
- meeting rooms
- schools
- small auditoriums
- shopping malls
- transport terminals
- theme parks

The T4.4 rear panel has two input connectors. You can choose to use either the 4 way push terminal connector or the NL4 speakon connector. The two connectors are paralleled for through connection.

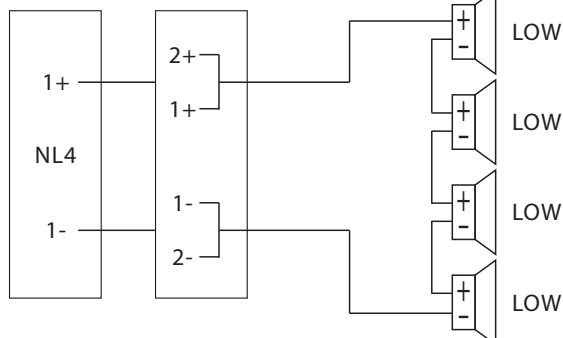
## Push Terminals



## Speakon NL4

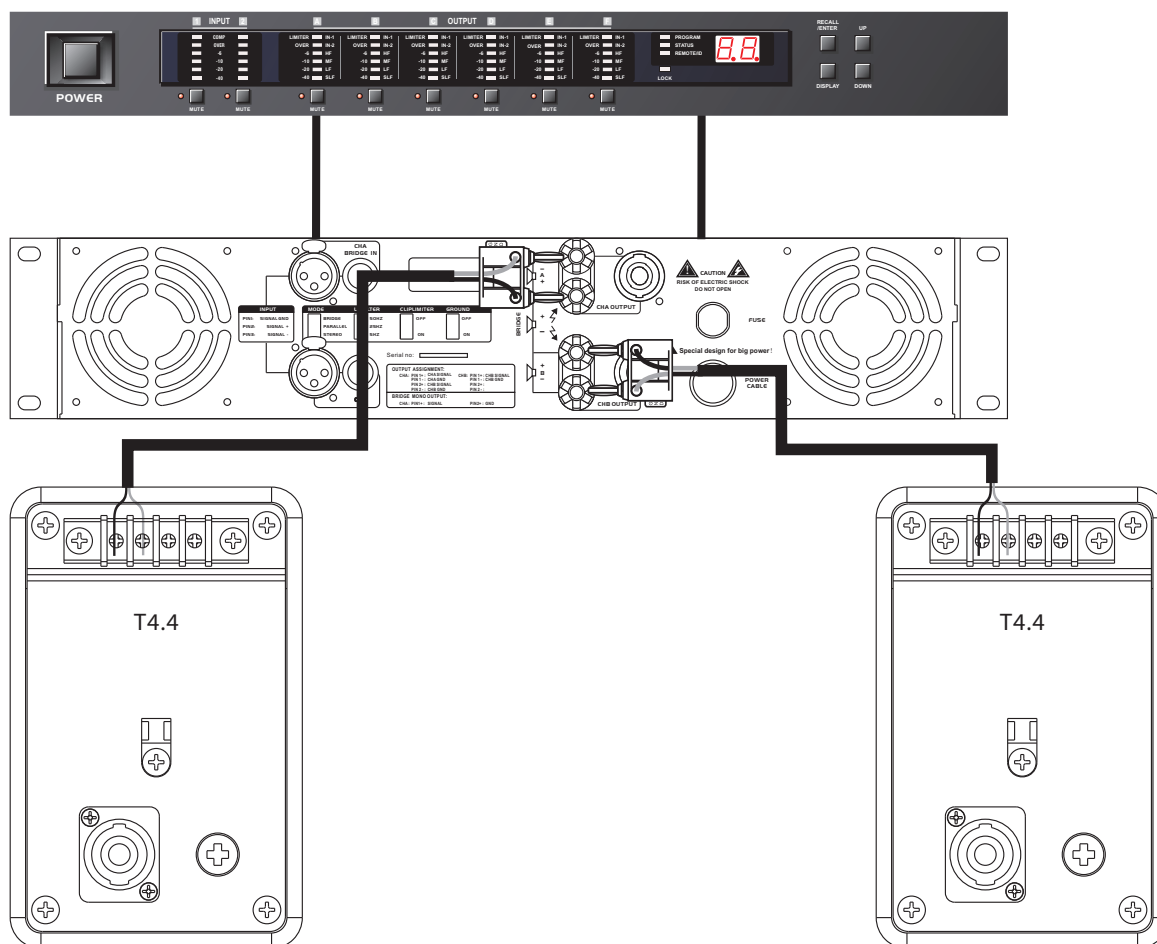


1+ 1- INPUT



## System Reference Diagram

Processor (Optional EQ curves available on CD)



**Warning:** Please make sure the speaker impedance and polarity match the amplifiers.

## INSTALLATION

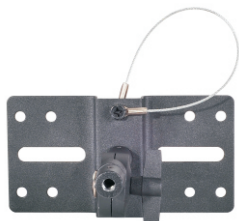
T4.4  
T series line array full range column speaker



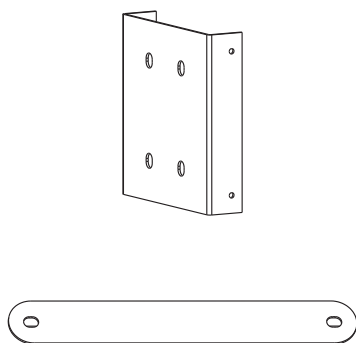
### Optional Installation Accessories

The T4.4 cabinet has 3 flying points, plus a stand mount adaptor to ensure fast and easy installation. To install stacked speakers there are optional coupling brackets.

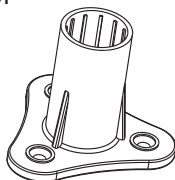
#### 1. Wall bracket



#### 2. Speaker coupling brackets



#### 3. Stand mount adaptor

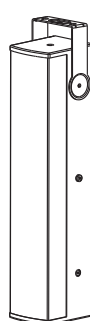


#### 4. Tripod



### Installation Options

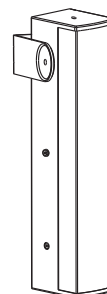
#### 1. Flying



Ceiling mount

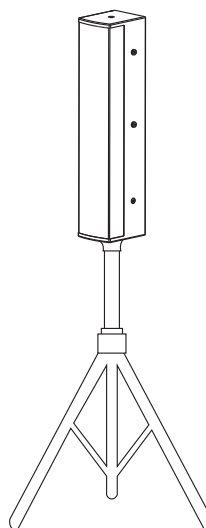


Extension mount

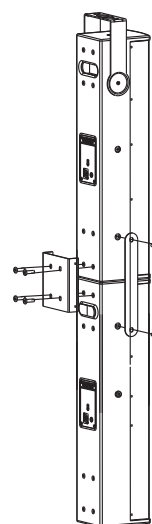


Wall mount

#### 2. Stand mount



#### 3. Speaker coupling



**Warning:** Always ensure the mounting accessories safety factor is not less than 5:1 or that it meets the local standards.

## Specifications

|   |
|---|
| <b>Product:</b> Passive Wooden Speaker  |
| <b>Transducer:</b> 4 x 4" Full range transducers  |
| <b>Frequency Response(-3dB):</b> <sup>1</sup> 90Hz-16kHz                                |
| <b>Frequency Response(-10dB):</b> 80Hz-17kHz  |
| <b>Sensitivity(1W@1m):</b> <sup>2</sup> 92dB  |
| <b>Maximum. SPL(1m):</b> <sup>3</sup> 113dB/119dB (PEAK)                                |
| <b>Power:</b> 120W (RMS) <sup>4</sup><br>240W (MUSIC)<br>480W (PEAK)                    |
| <b>Dispersion Angle (HxV) :</b> 180 ° x 30 °  |
| <b>Rated Impedance:</b> 8 ohms  |
| <b>Cabinet:</b> 15mm plywood construction   |
| <b>Installation:</b> Mounting U bracket included and optional mounting points provided. |
| <b>Paint:</b> White durable textured finish   |
| <b>Grill:</b> White powder coated ,<br>0.8mm steel mesh.                                |
| <b>Connector:</b> 4-Push terminal and 1 NL4 Speakon                                     |
| <b>Dimension(WxDxH):</b> 135x169x560mm<br>(5.3x6.7x22.0in)                              |
| <b>Packing Dimension(WxDxH):</b> 240x205x660mm<br>(9.4x8.1x26.0in)                      |
| <b>Net Weight:</b> 6.5kg (14.3 lbs)   |
| <b>Gross Weight:</b> 7.0kg (15.4 lbs)   |
| <b>Optional Accessories:</b> Coupling bracket, Stand adaptor, Tripod                    |

## 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.

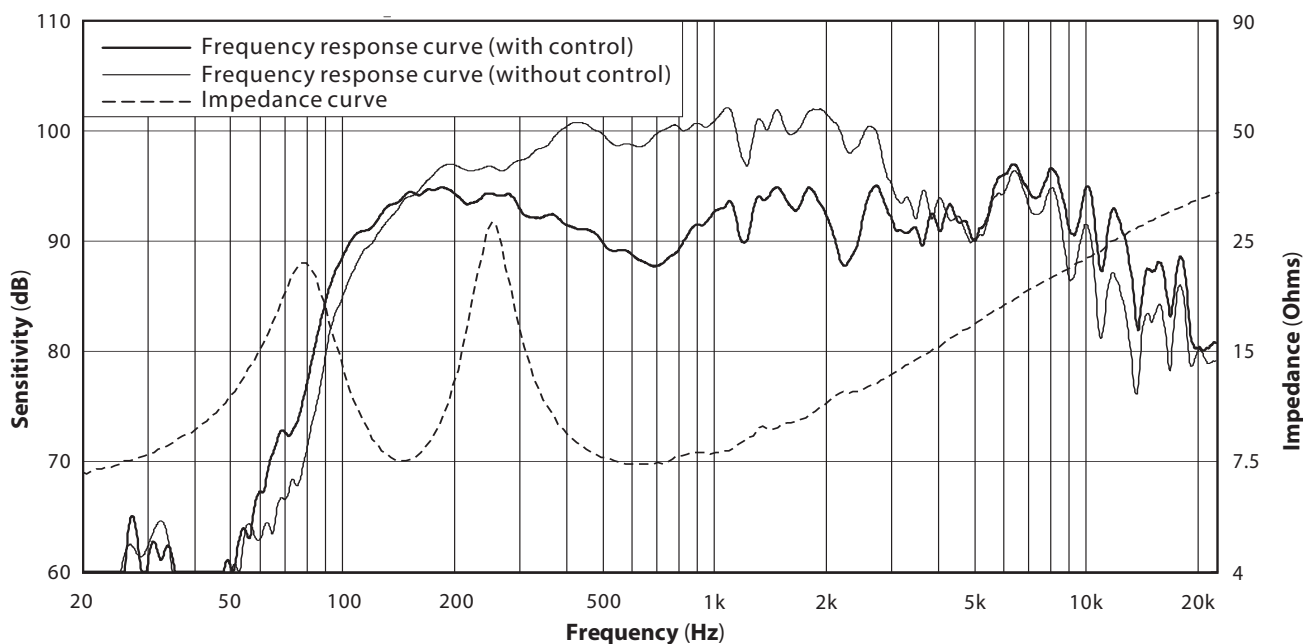
### 3. MAX.SPL

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.

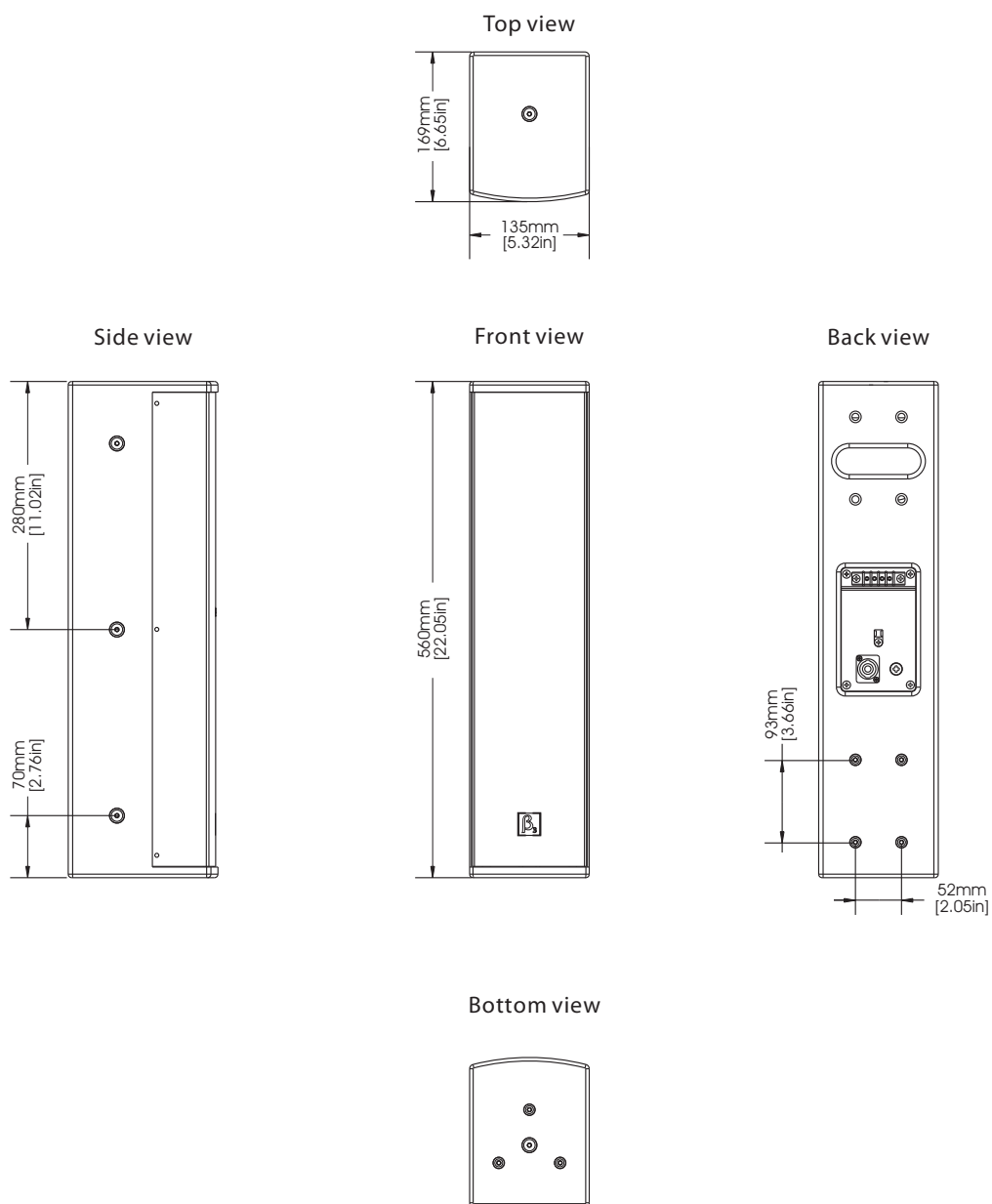
### 4. Rated Power

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

## Technical Specifications



## Dimensions





**Notes:**



**Beta Three**