

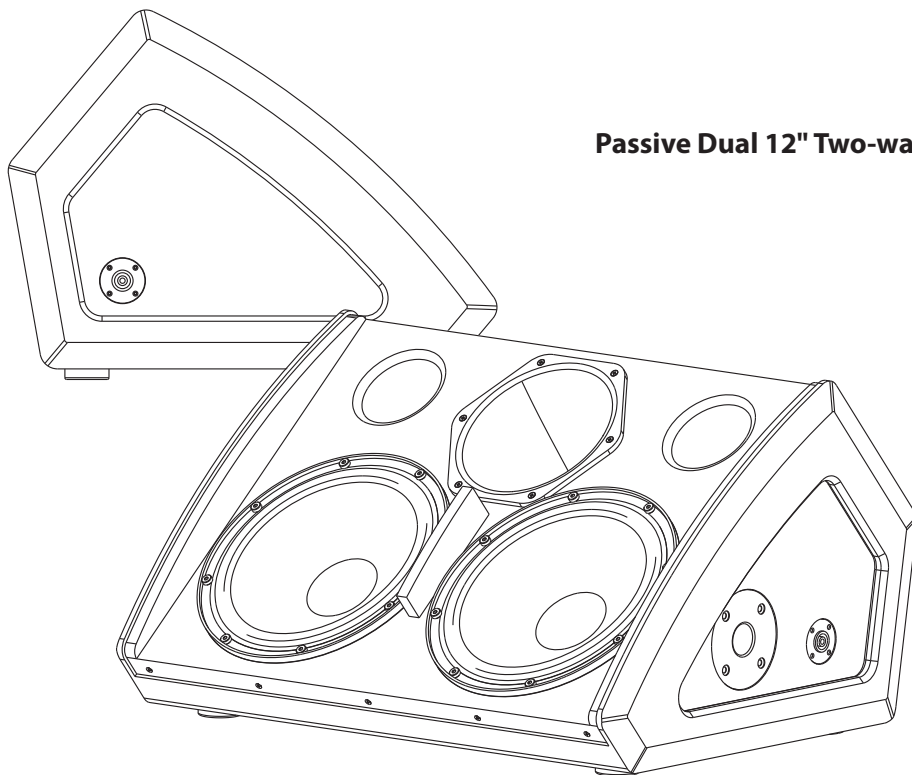


Beta Three

TW212M

Passive Dual 12" Two-way High SPL Monitor Loudspeaker

USER MANUAL





UM-TW212M-20161109 ver A



SAFETY INSTRUCTIONS

PLEASE READ THIS MANUAL FIRST

Thank you for buying β_3 product. Please read this manual first as it will help you operate the system properly. And 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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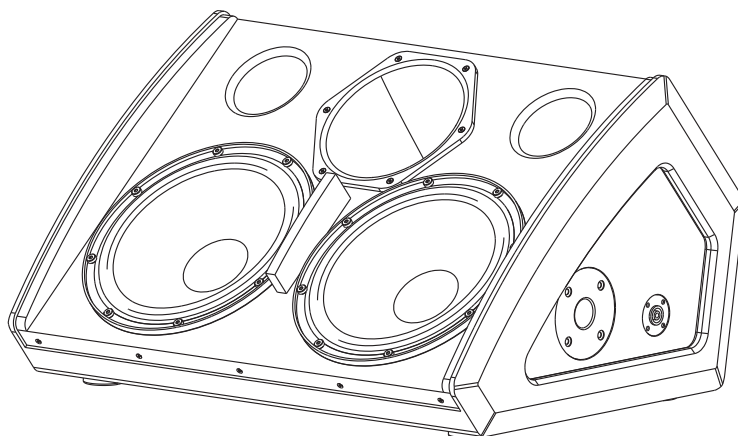
Product information subjects to be updated without notification, please visit www.beta3pro.com for latest update.

TW212M

Passive Dual 12" Two-way High SPL Monitor Loudspeaker

Features

- Dual 12" Ferrite woofer with 3" voice coil.
- Ferrite compression driver with 3" voice coil.
- Dispersion $45^{\circ} \times 100^{\circ}$.
- Monitor angle 50° .
- Sensitivity is 100dB, Max. SPL is 132dB.
- RMS power is 500W, peak power is 2000W.
- Ergonomic cabinet design.



Description

$\beta 3^{\circ}$ TW212M is Passive Dual 12" Two-way High SPL Monitor Loudspeaker. Strict quality control during the R&D, manufacturing, materials inspection, procedure inspection and shipment inspection make sure every unit meet the high standard demand.

The cabinet is made of high intensity PLY board. Special multilayer black painting with scratch-resistant and erode-resistant feature protect the cabinet surface perfect. Selected POLYESTER damping materials absorb cabinet cabinet stand wave effectively. Built-in crossover circuit and different voltage output give the user more options.

Aiming at this special cabinet, the transducers used are optimized by our experienced engineers, whom focus on the magnetic system and vibration system. To get the excellent performance, the engineers take a lot of advanced technology to decrease the magnetic impedance and lower the magnetic leakage, and not increase the transducer weight.

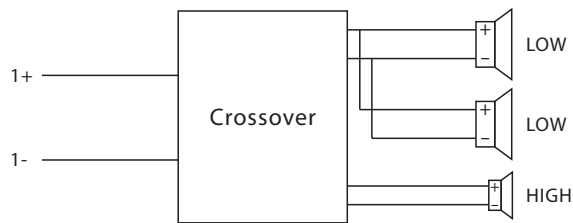
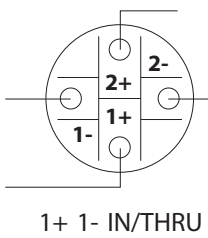
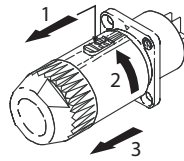
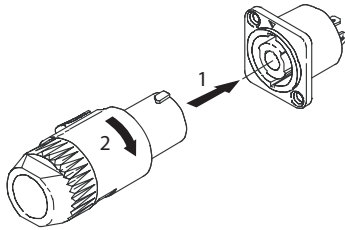
Applications

- Auditorium
- Theater
- Multifunctional hall
- Dance Club
- Hall Performance
- Living Performance

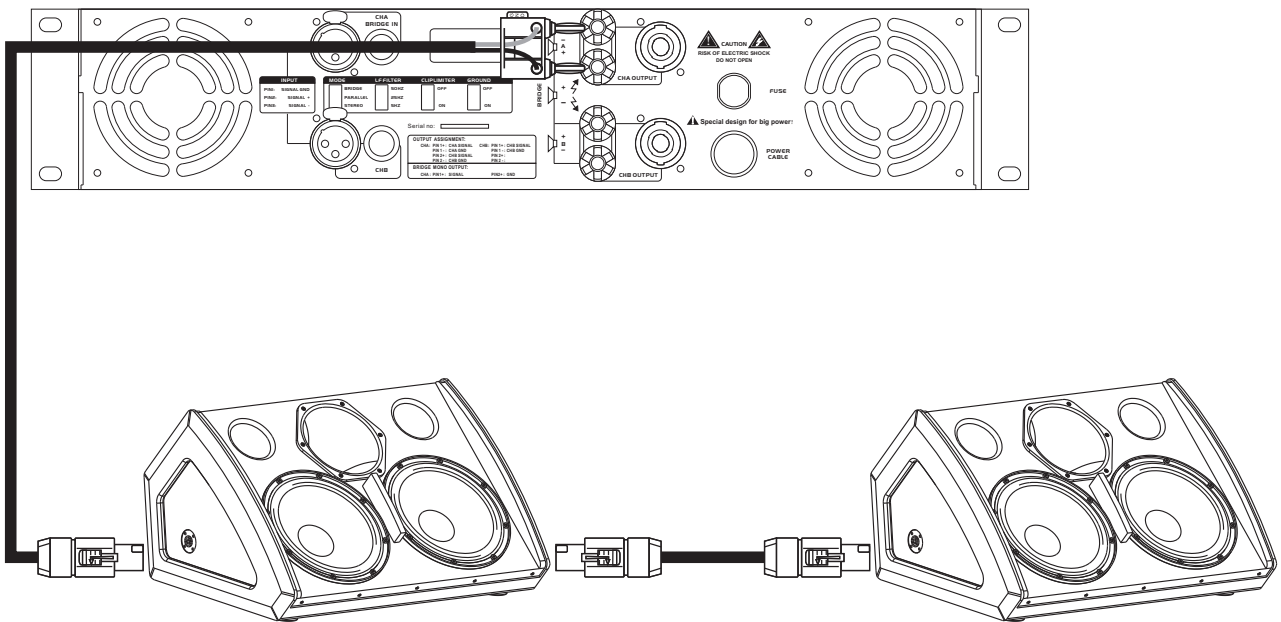
NL4 Wiring Connection

1. Connect

2. Disconnect



System Connection Reference



There is one NL4 connector each side for parallel connection.

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

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

Specification

System:	Two-way full range passive speaker
Components:	2 × 12" 75mm ferrite LF driver 1 × 3" ferrite compression driver
Frequency response(-3dB): ¹	55Hz-18kHz
Frequency response(-10dB):	50Hz-18kHz
Sensitivity(1W@1m): ²	100dB
Max.SPL(1m): ³	126dB/132dB(PEAK)
Power: ⁴	500W (RMS) 1000W (MUSIC) 2000W (PEAK)
Dispersion (H × V) :	45° × 100°
Monitor angle:	50°
Rated impedance:	4 Ohms
Crossover point:	1.6kHz
Cabinet:	Anti-Collision, 15mm, 11 layer Russian plywood
Handle:	2 × Wooden handles
Surface:	Polyurethane-based painting. Steel grille is coated by powder to provide strong ultra-Weatherability.
Connector:	NL4 × 2
Cabinet dimension: (W × D × H):	740 × 554 × 407mm (29.1 × 21.8 × 16.0 in)
Package dimension: (W × D × H):	665 × 515 × 865mm (26.2 × 20.3 × 34.1in)
Net weight:	32.5kg(71.5 lbs)
Gross Weight:	36.5kg(80.3 lbs)

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.

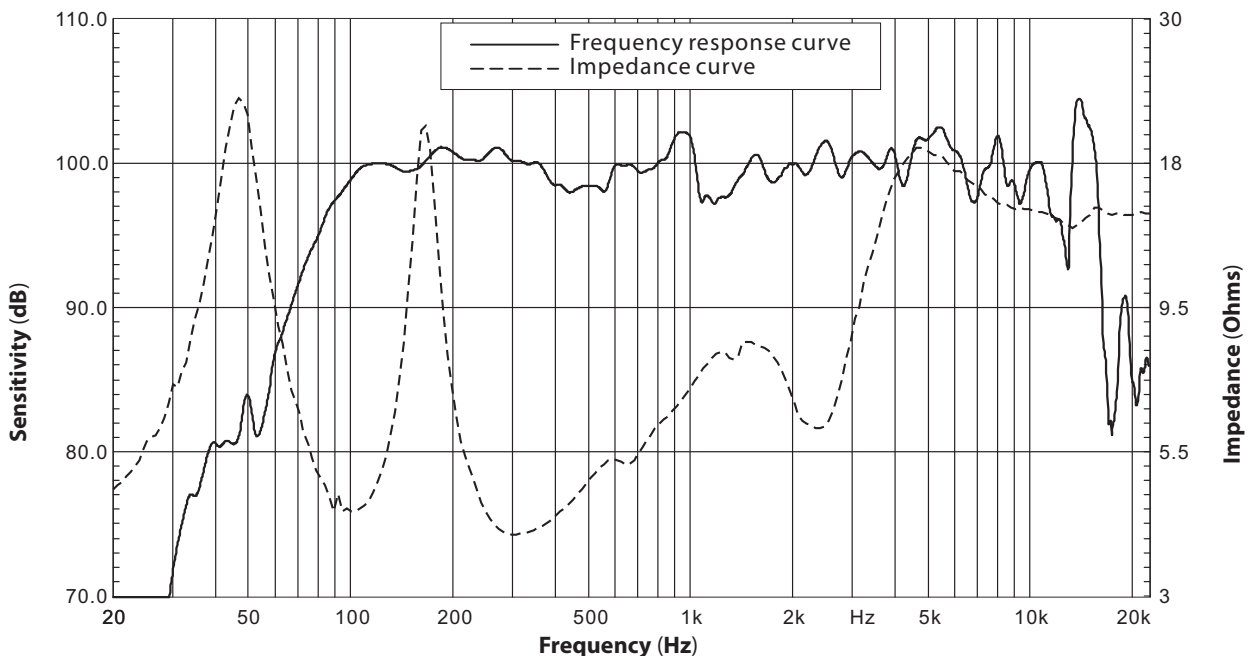
3. MAX.SPL

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

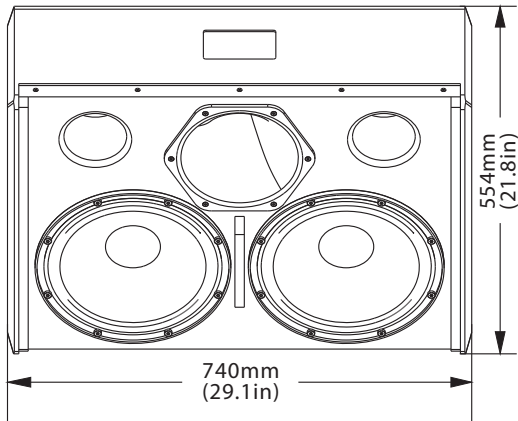
Use the pink noise according to IEC#268-5 to test the speaker, enlarge the signal for continuous 100hours, the rated Power is the power when the speaker will not incur hot damage or mechanics damage.

Frequency response curve & Impedance curve:

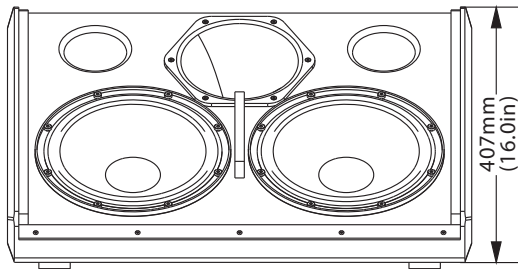


2D dimension

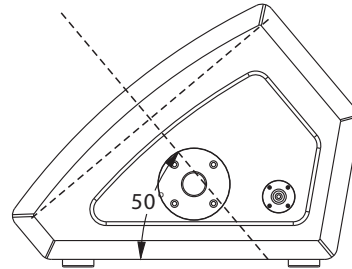
Top View



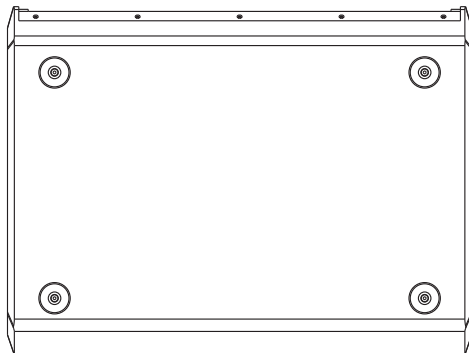
Front View



Side View



Rear View





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