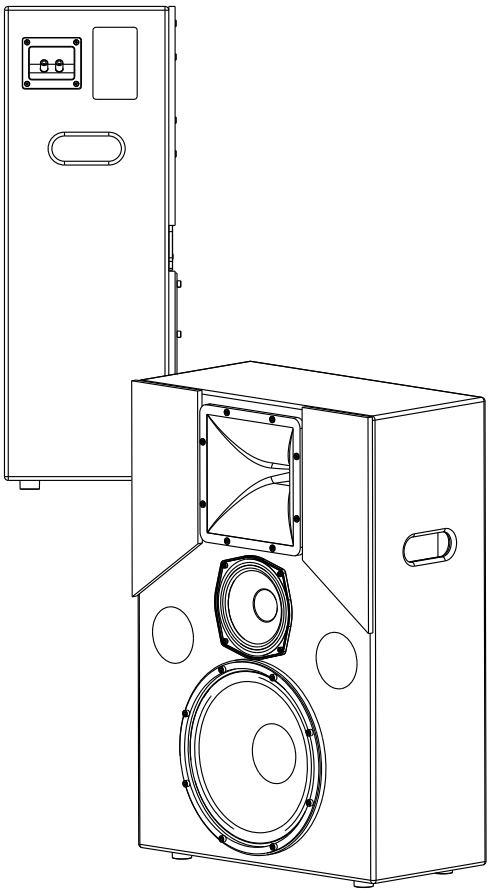
Beta Three

CS1312A

Professional Cinema Series Speaker System

User Manual



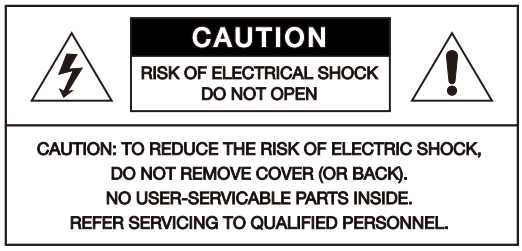
UM-CS1312A-20190802 Ver A

SAFETY INSTRUCTIONS

PLEASE READ THIS MANUAL FIRST

Thank you for buying β_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.***



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.

CONTENT

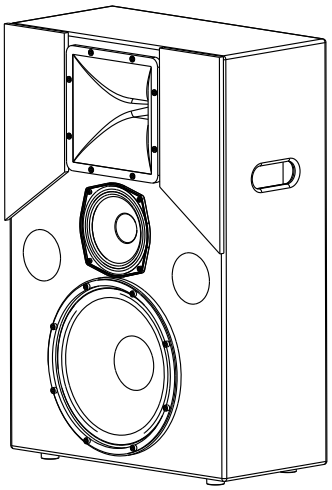
⚠ Product information subjects to be updated without notification.
Please visit www.beta3pro.com for latest updates.

CSI312A

Professional Cinema Series Speaker System

Features

- Three way full range phase-inversed speaker system consists of one 12 inch LF woofer, one 6 inch MF driver and one high compression driver with 44mm voice coil.
- Computer simulating design
- Frequency Response 55Hz- 20kHz (-3dB)
- Sensitivity 95dB, MAX. SPL 117dB/123dB(PEAK)
- Rated power 250W, long term max power 500W
- Applied USA patent formulation full day paint by dry-spray technology, the coating hardness is superiors, 30% harder than common paint.



Product description:

Beta three professional cinema series speaker system is mainly suitable for all sizes of luxurious digital stereo system of cinema, also applicable for theaters,conference rooms,multi-fuction hall stage speaker system.This series of cinema products have been developed and manufactured basing on the latest speaker computer simulation technology,combining the latest speaker application materials and processing technology.Through optimization of material and aided design by computer,this series of products have been developed into superior performance with lower costs,good reliability with outstanding amplification.

On the performance of sound, this series has developed basing on many actual applications, its unique superior sound radiation characteristics has provided the clearest audio-visual positioning and a more beautiful sound quality to the audiences.
Adoption of new generation efficient protection circuit, it ensures this series of products to be applied under poor application circumstances, also extends the service life of products.

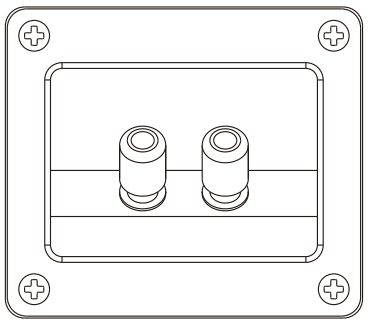
Correctly combining this series of cinema products, the speaker system could be applied to all sorts of different scales of cinemas; also they could be installed quickly and correctly through professional installation structure, it guarantees the sound performance of the system.

Applications

- Theater
- Multifunctional hall
- Auditorium
- Cinema

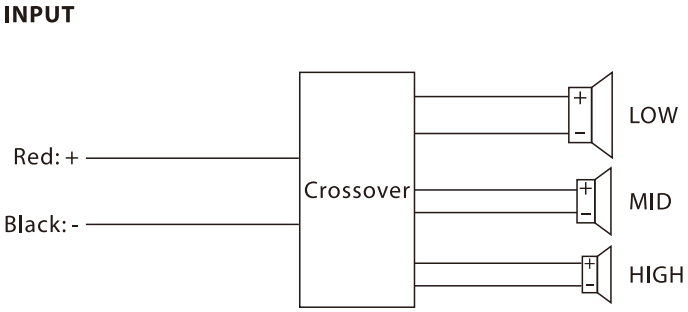
CS1312A with one terminal to connect amplifier.

Wiring Terminal:

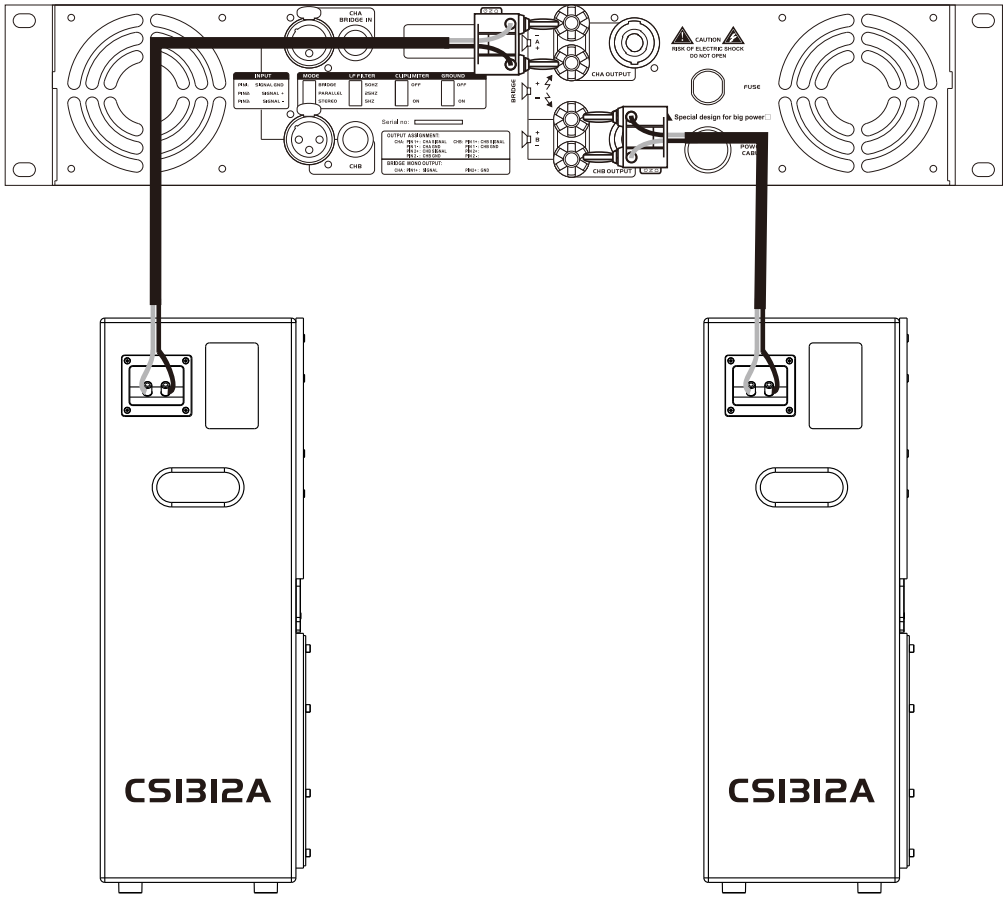


Red: + Black: -

Connection Diagram:



System Connection Reference:



⚠ **Note:** When connecting the system,keep the output impedance of speaker matched the amplifier's.

⚠ **Note:** Connecting the polarity correctly.

Technical Specification

Speaker:	Passive Wooden Speaker
System components:	1×12" LF driver
	1×6" MF driver
	1×44mm voice coil HF driver
Frequency response(-3dB)[1]:	55Hz-20kHz
Frequency response(-10dB):	50Hz-20kHz
Sensitivity(1W@1m)[2]:	95dB
Max. SPL(1m)[3]:	117dB/123dB(PEAK)
Power(RMS):	250W (RMS)[4] 500W (MUSIC) 1000W (PEAK)
Dispersion（H×V）:	90° × 50°
Rated impedance:	4 Ohms
Crossover point:	650Hz & 4kHz
Cabinet:	Square shape, 15mm MDF
Handle:	2 × Wooden handles
Cosmetic Finish:	Black polyurethane paint
Connector:	Spring Clip
Cabinet dimension: (W×D×H)	520×260×750mm (20.5×10.2×29.5in)
Package dimension: (W×D×H)	600×348×845mm (23.6×13.7×33.3in)
Net weight(pc):	27.5kg(60.5 lbs)
Gross weight(pc):	29.5kg(64.9 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.

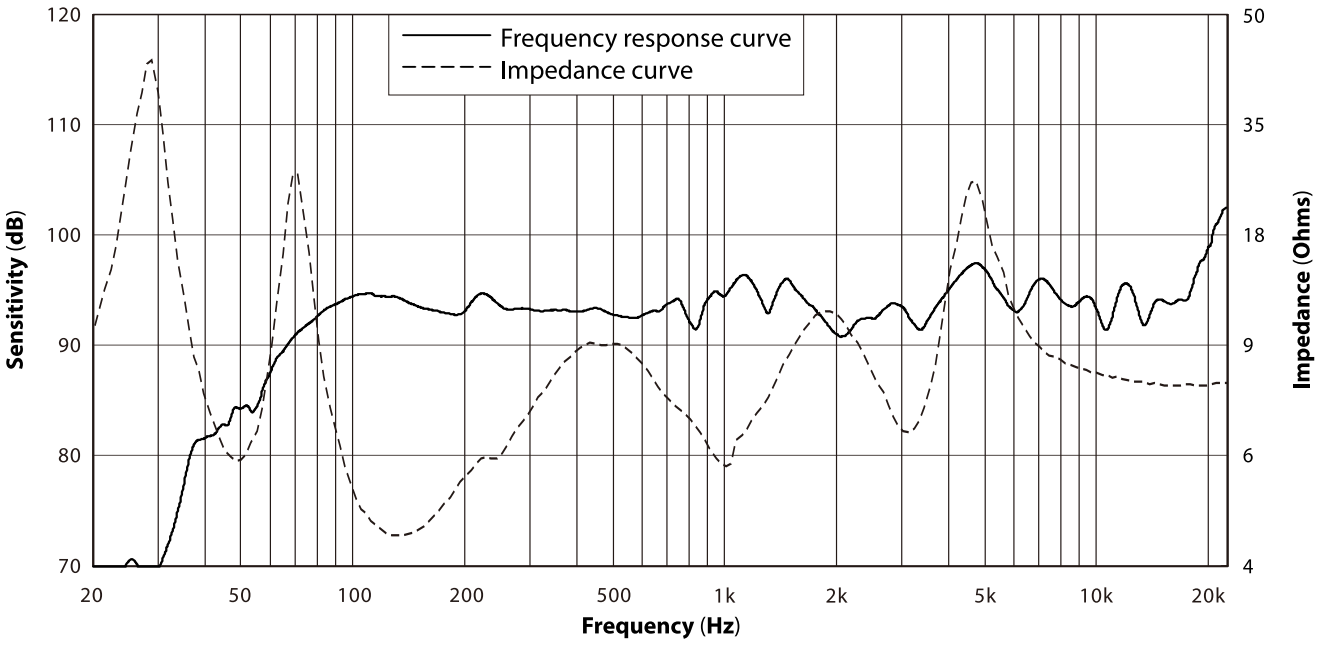
3. MAX.SPL

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

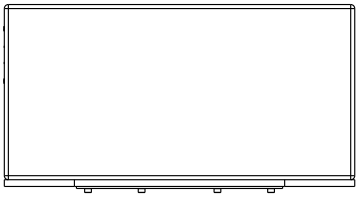
Use pink noise to the IEC#268-5 standard to test the speaker, increase the signal for a continuous period of100 hours, the rated power is the power when the speaker will show no visible or measurable damage.

Frequency response & Impedance curve

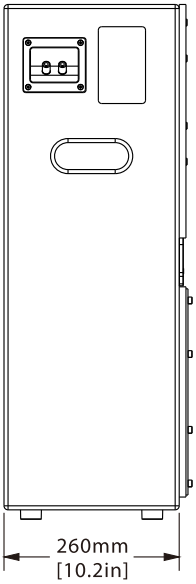


2D Dimension

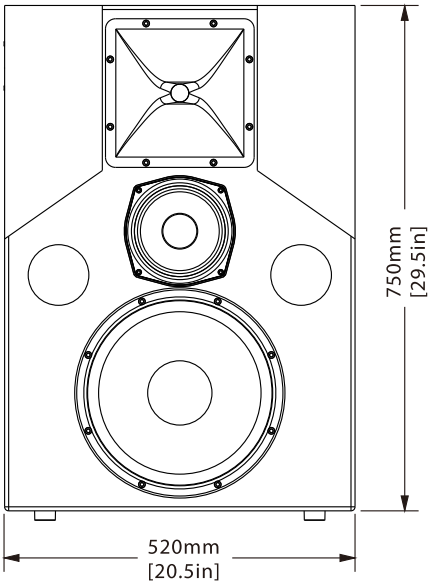
Top view



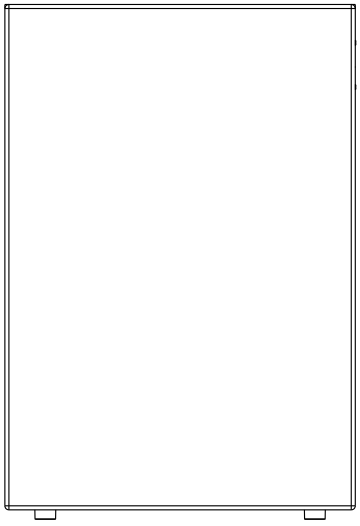
Side view



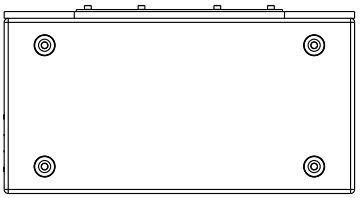
Front view



Rear view



Bottom view



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www.beta3pro.com.