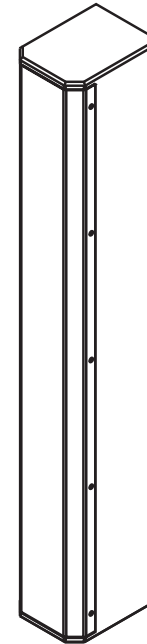




THE UNIVERSE OF INSTALLATION

User's Manual

COLUMN ARRAY SPEAKERS



CS-308



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SEIKAKU TECHNICAL GROUP LIMITED

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TECHNICAL SPECIFICATIONS

Model Passive	CS-308 / CS-308W
System Type	Column Array Speaker
Input Voltage	70V / 100V
Transformer selectable Power	7.5W / 15W / 30W / 60W (100V / 70V)
Power capacity (8Ω)	120W RMS, 240W Program
System Impedance	70V 667Ω / 333Ω / 167Ω / 83Ω 8Ω
	100V 1333Ω / 667Ω / 333Ω / 167Ω 8Ω
Sensitivity (1M/1W)	95dB
Max SPL (1M)	115.5dB (calculated by 8ohms)
Frequency Response(-6dB)	180Hz-18KHz
Speaker	8×3" full range speaker, 20mm Voice Coil
Angle of coverage	220°(Horiz);30°(Vert)
Connect	Phoenix
Enclosure Construction	Plywood cabiner, resistant paint, 0.8mm metal grille
Suspension/Mounting	4×M8 Points For Mounting
Dimensions(H×W×D)	730mm(28.8")×98mm(3.9")×130mm(5.1")
Net weight	7.5KG/16.5Lbs
Accessory	Hexagon machine screw M8 x 30 4PCS
	Phoenix terminal
	Support frame

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IMPORTANT!

Please read this manual carefully before operating this unit for the first time.

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SAFETY RELATED SYMBOLS



The symbol is used to indicate that some hazardous live terminals are involved within this apparatus, even under the normal operating conditions.



The symbol is used in the service documentation to indicate that specific component shall be only replaced by the component specified in that Documentation for safety reasons.



Protective grounding terminal.



Alternating current /voltage.



Hazardous live terminal .

ON: Denotes the apparatus turns on.

OFF: Denotes the apparatus turns off, because of using the single pole switch, be sure to unplug the AC power to prevent any electric shock before you proceed your service.

WARNING: Describes precautions that should be observed to prevent the danger of injury or death to the user.



Disposing of this product should not be placed in municipal waste and should be separate collection.

CAUTION: Describes precautions that should be observed to prevent danger of the apparatus.

WARNING

• Power Supply

Ensure the source voltage matches the voltage of the power supply before turning ON the apparatus.

Unplug this apparatus during lightning storms or when unused for long periods of time.

• External Connection

The external wiring connected to the output hazardous live terminals requires installation by an instructed person, or the use of ready-made leads or cords.

• Do not Remove any Cover

There are maybe some areas with high voltages inside, to reduce the risk of electric shock, do not remove any cover if the power supply is connected.

The cover should be removed by the qualified personnel only.

No user serviceable parts inside.

• Fuse

To prevent a fire, make sure to use fuses with specified standard (current, voltage, type). Do not use a different fuse or short circuit the fuse holder.

Before replacing the fuse, turn OFF the apparatus and disconnected the power source.

• Protective Grounding

Make sure to connect the protective grounding to prevent any electric shock before turning ON the apparatus.

Never cut off the internal or external protective grounding wire or disconnect the wiring of protective grounding terminal.

• Operating Conditions

This apparatus shall not be exposed to dripping or splashing and that no objects filled with liquids, such as vases, shall be placed on this apparatus.

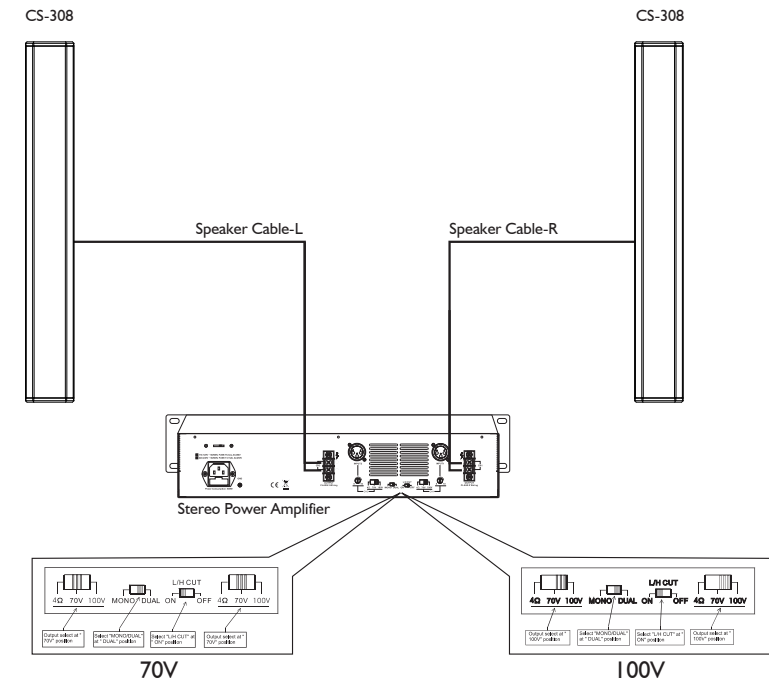
SYSTEM CONNECTION PLATE

CHI/CH2 loaded with 70V, dual channel input:

1. Select "MONO/DUAL" at " DUAL" position, dual channel input;
2. CHI/CH2 output select at " 70V" position, both loaded with rated 70V speaker;
3. Select "L/H CUT" at "ON" position, to prevent low frequency protection and improve the transmission efficiency. Applicable to Public Address System;

CHI/CH2 loaded with 100V, dual channel input:

1. Select "MONO/DUAL" at " DUAL" position, dual channel input;
2. CHI/CH2 output select at " 100V" position, both loaded with rated 100V speaker;
3. Select "L/H CUT" at "ON" position, to prevent low frequency protection and improve the transmission efficiency. Applicable to Public Address System;



BACK PANEL DESCRIPTION

FRONT PANEL

1 POWER SELECTIONS

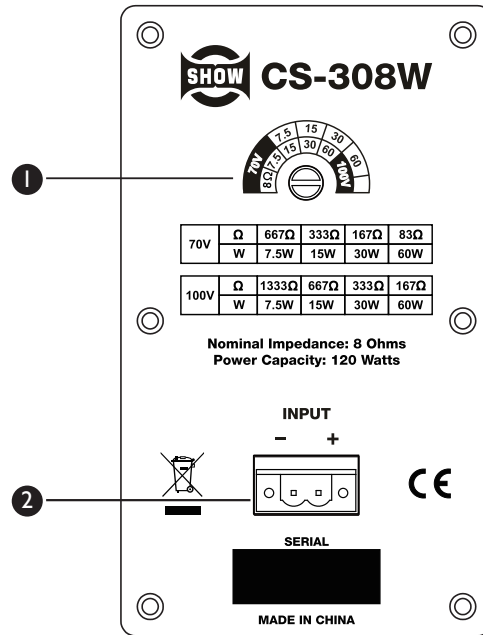
1) Do not use the tap for 70V input



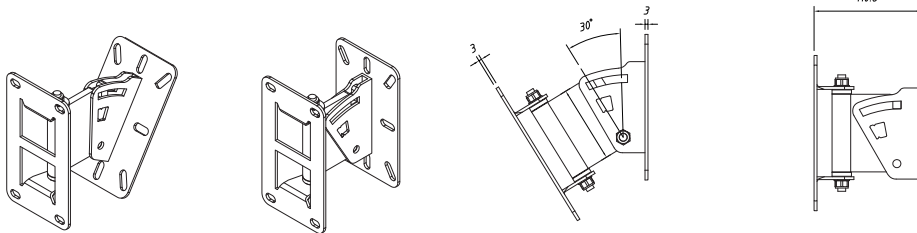
2) Do not use the tap for 100V input



2 INPUT



ACCESSORY



To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture.

Do not use this apparatus near water. Install in accordance with the manufacturer's instructions. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat. Do not block any ventilation openings.

No naked flame sources, such as lighted candles, should be placed on the apparatus.

IMPORTANT SAFETY INSTRUCTIONS

- Read these instructions.
- Follow all instructions.
- Keep these instructions.
- Heed all warnings.
- Only use attachments/accessories specified by the manufacturer.
- **Power Cord and Plug**

Do not defeat the safety purpose of the polarized or grounding type plug.

A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.

Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.

- **Cleaning**

When the apparatus needs a cleaning, you can blow off dust from the apparatus with

a blower or clean with rag etc.

Don't use solvents such as benzol, alcohol, or other fluids with very strong volatility and flammability for cleaning the apparatus body. Clean only with dry cloth.

- **Servicing**

Refer all servicing to qualified personnel. To reduce the risk of electric shock, do not perform any servicing other than that contained in the operating instructions unless you are qualified to do so.

Servicing is required when the apparatus has been damaged in any way, such as power supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

The mains plug is used as the disconnect device, the disconnect device shall remain readily operable.

Please read the instructions in details before you use, and follow the contents to do the most proper installation. After you have made the proper installation, please keep this instruction well for your references at any time.

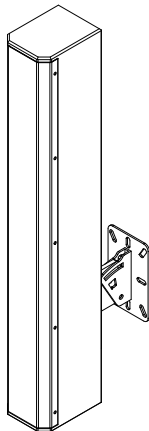
If you would like to do any changes for the installation regarding this product, please must make sure if the specifications are correct or not. Otherwise, the incorrect installation will probably result in the permanent damage to this product, therefore, please use it with cautions.

Cautions:

1. Absolutely not to do the installation that exceeds the specifications of this products because it will result in affecting the life and the capacity with regard to this product.
2. Keep away from the place that wets in rain directly if installing at outside.
3. Do not clean the appearance of the column speaker with an organic solvent or alcoholic detergent.
4. Do not repair or disassemble the product yourself if there is any damage or unusual situation, please should contact the person in charge of service immediately.

INTRODUCTION

CS-308 is a professional column array speaker developed by SHOW. With 1.0mm mesh and 0.8mm grille, it can effectively protect unit from external damage and prevent dust into the speaker. Cabinet is made by plywood with light weight and solid structure. Cabinet surface is sprayed fine sand paint to make delicate touch. 8 pieces 3" full-range horn unit with linear paper cone, cloth surrounding can achieve high sensitivity. The system apply power transformers to switch power, effectively protect the units. To prevent high power input signal damage units, they can be used in parallel to avoid causing damage to the PA amplifier with low impedance. Locked bracket screws to fixed plate inside cabinet. The fixing plate with 3 mm thick iron can effective decompose the bracket pull force.



INSTALLATION

1) Make sure the expansion screws of mounting brackets can firmly support the product weight before installation to avoid causing the injuries of the facilities and a worker if there is a falling.

2) Make sure the bracket is installed in vertical position and install expansion screw in the identified location.

3) Lock the bracket (in attached) to the wall enough tightly and ensure it's vertical between bracket and wall.

4) Remove the 4*M8 screws on back of column and fix it to the racket via the screws (in attached). Please make the column straight and firmly locked.

5) Adjust the column to appropriate angle with bracket adjustable angle vertical $0^{\circ} \sim 30^{\circ}$ / horizon $-90^{\circ} \sim 90^{\circ}$.

6) Please first confirm the system you connected output of 100V, 70V. And adjust band switch to the correct position, also the input signal must be connected correctly.

