

CS-1501 CS-1502 Phased-Array Sound Column



Operating Instructions

Welcome to use our Public Address System. For better use of this equipment, please read this manual thoroughly before use.

LY International Electroncis Co., Ltd. <u>Http://www.lyintlcorp.com</u>

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1. Product Description

The phased-array sound column is a new type of public address system. By applying the electronic and digital signal processing (DSP) technologies, it can simulate the directivity from different shapes of sound columns, while the inherent performances of the sound column will not be affected, e.g. rated power, range of effective frequency response and max. sound pressure level.

With DSP technologies, we may operate from the remote controller to change the directivity of speaker system at some extent. This is suitable for loud speaking in a hall where the building acoustics is poor (especially long reverberation time). This product is most suitable for the hardware (sound box, DSP processor) of the loudspeaker system in sports venues (where the volume is large, the building acoustics is poor, the reverberation time is long and the sound is muddy), so that it can be combined with special software to make the controllable sound cover useful area (auditoria, etc) correctly and prevent it from diffusion to useless area (e.g. ceiling, door or window). In this case, it can reduce the investment in acoustic decorations in venues and decrease the energy loss caused by loudspeaker system. This leads to reduced investment in both the acoustic decorations and sound system in the sports venue.

2. Functions

- Acoustically simulate the sound columns of different shapes, e.g. inclined, concave, convex and more complicates shapes.
- Active sound column with inbuilt digital signal processor and digital power amplifier, so that it is no need for external power amplifier.
- Compatible with line signal input (300mV), line signal output (200mV) and broadcasting power signal input with fixed voltage (70V or 100V).
- Volume, tone and other parameters of the sound column adjustable.
- The LED array screen on the right lower of the sound column can display different parameters and messages.
- Operate from infrared remote controller.
- Compact size, easy installation and high electroacoustic sensitivity.

3. Description of Remote Controller Keypad

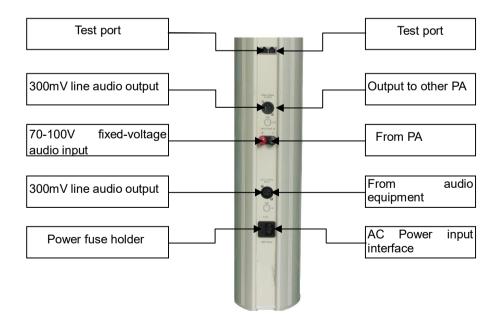
Key	Function	Operation	Remarks
	Power ON/OFF	One touch of this key slightly	It takes approx. 5s for startup.
Ċ	Sound ON or OFF	One touch of this key slightly	
EQ	Equilibrium adjustment	One touch slightly to enter into equilibrium interface. See Page 4 for operating methods.	14-section equilibrium; amplitude ±12dB
	Increase directivity angle	One touch to increase by 1°. Hold down for 3s to increase continuously	Max. angle: +45°
AN-	Decrease directivity angle	One touch to decrease by 1°. Hold down for 3s to decrease continuously	Min. angle: -45°
V+	Increase volume	One touch to increase by 1 level. Hold down for 3s to increase continuously	Max. volume: 32 levels
V-	Decrease volume	One touch to decrease by 1 level. Hold down for 3s to decrease continuously	Min. value: 0
FOCUS+	Focus backward	Every touch to move 1m backward. Hold down for 3s to move continuously	Nearest: -30m
FOCUS-	Focus forward	Every touch to move 1m forward. Hold down for 3s to move continuously	Farthest: +30m
S Key	Select sensitivity	One touch to view sensitivity; hold down to select sensitivity value	0dB, -6dB and -10dB available for selection

4. Installation Schematics:

- 1. Select a proper position on the surface where the sound column is to be installed, and fix two screws ø8mm. As shown on right, mount the bracket and fix the sound column.
- 2. Connect the wire correctly as described in Section 5. Check if the sound column is secure and confirm that the connection is correct. Then, insert the power cable of sound column into AC electric grid.



5. Description of Back Ports



6. Description of Remote Controller Keypad

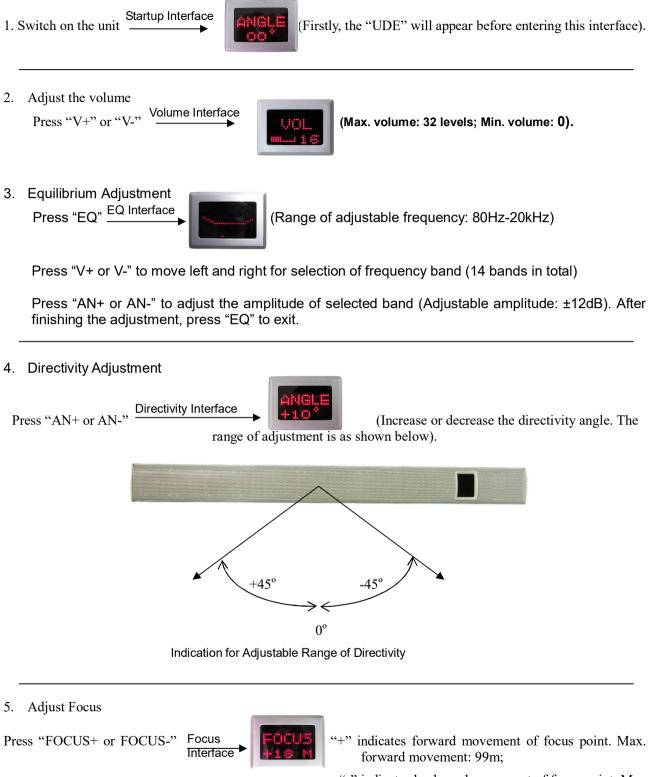
- 1. Mute key
- 2. Sensitivity selection key (Sensitivity)
- 3. Volume / Setting Key (V+, V-) for left and right movement
- 4. Directivity / Setting Key (AN+, AN-) for up and down movement
- 5. Setting Confirmation Key (EQ)
- 6. Focus adjustment key (FOCUS+, -)
- 7. Treble adjustment key (TREBLE+, -)
- 8. Bass adjustment key (BASS+, -)
- On/OFF Key (Note: The ON/OFF key can only switch off the current play status, but it cannot switch off the power of sound column). To switch off the power supply, please remove the power plug on sound column).



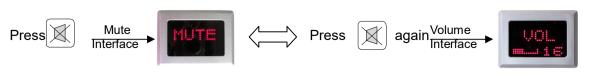
Infrared remote controller

7. Operating Instructions

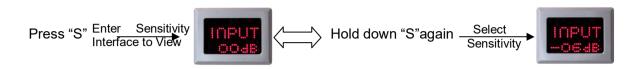
The lobe variable sound column is operated from infrared remote controller. The remote controller is effective when it operates within 180° in front of the sound column.



"-" indicates backward movement pf focus point. Max. backward movement: 99m. 6. Mute

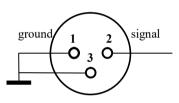


7. Select Input Sensitivity Value



With "S" key held down, the three sensitivity values, i.e. "00dB, -06dB and -10dB" will be displayed alternatively. When the desired sensitivity value appears, please release "S" key, so that this sensitivity value will be effected.

8. 3-pin XLR-type connectors



3-pin XLR-type connectors

8. Specifications

Model	CS-1501	CS-1502	
Power consumption	100W	150W	
Input sensitivity	300mV/70-100V		
Range of directivity angle	±45°		
Size (mm)	(L×W×H) 146×132.5×1365	(L×W×H) 154.5×153×1602	
Net Weight	16.5kg	22kg	
Greet Weight	20kg	26kg	

The functions and parameters are subject to change without prior notice.

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