

BFA Portable active line array kit

⚠ danger:
The speaker system must be hung by personnel with knowledge of hardware and suspension technology. When the other party or directly installed on the bracket, their stability and safety should also be fully considered when receiving external force or accidentally falling, to prevent equipment damage or personal injury.

3. Components inside the packaging

Serial	name	specifications (WxHxD)	number
01	High-performance active ultra-low frequency speaker	624*739*806mm	1
02	dual frequency line array speaker	288*665*488mm	2
03	Adjustable height support rod with built-in connecting wire	Height: 1 meter	1
04	power line	Length: 1.2 meters	1
05	2-core speaker cable, including speaker connector	Length: 3 meters	2
06	USB cable	Length: 1 meter	1
07	Binding strap	/	1
08	Accessories package	/	1
09	User manual	/	1
10	Certificate of conformity	/	1
11	Warranty Card	/	1

Optional accessories

Serial	name	specifications (WxHxD)	number
01	Hanger	624*739*806mm	1
02	Rain cover (small)	MX2.1-10	2
03	Rainproof cover (large)	MX2.1-18	1

4. System specification parameters

speaker	MX2.1-10	MX2.1-18
Impedance	8ohms	8ohms
rated power	high frequency(1000Hz)100W(Peak)/100W(Peak) and low frequency(500W)PEAK/100W(Peak)	100dB/100/1M
sensitivity (1m,1W)	103dB/1W/1M	98dB
Map (1m,1000W)	136dB	136dB
directivity (90°)	100°*90°	360°*180°
Frequency range (1m, 100W)	70Hz-19KHz(3dB)	40Hz-200Hz(±3dB)

Power amplifier module
Power of power amplifier module (8ohms): 500W+500W+1200W
Amplifier module power (4ohms): 750W+750W+2300W
THD+N (10% rated power): <0.6%
IMD-SMPTE (10% rated power): <0.9%
CROSSTALK: >65dB
Frequency response (Hz) :20--20k
Signal to noise ratio (A) : >93dB
Power input AC:220V 50/60Hz
Working environment temperature: (-15--+4)

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8. Operation tips
Please ensure that all electronic devices do not experience overload clipping, especially power amplifiers, as this can easily damage the speaker.
When overload clipping occurs, even if the rated power of the amplifier is lower than the rated power of the Sandy speaker, it will also damage the speaker.
Try to avoid whistling in the microphone as it can easily damage the mid to high frequency unit.
To avoid excessively increasing the equalization rate in a certain frequency band, which may cause signal overload in that band, it is recommended to achieve frequency response calibration through attenuation, such as feedback Resist and eliminate room resonance, etc.
Signal processing can improve sound performance to a certain extent, but for room building acoustics problems, signal processing is often ineffective.
A good solution is to accurately locate the placement and projection direction of the speaker system, ensuring that there is more direct sound energy in the listening area.
The sound pressure level radiated by the speaker system is high enough to cause damage to human hearing. Please pay attention to the hearing protection of the operator and audience. Handle with care and pay attention to safety.

9. Maintenance
Under normal use, speakers do not require special maintenance. It is recommended to conduct routine inspections as follows:
1. Testing: Regular testing to maintain performance characteristics. The simple method is to replay the CD through the speaker and carefully listen to whether each speaker unit in the speaker is The sound is normal and there is no distortion or abnormal sound. Pay attention to the selection of program sources. It is necessary to use clear and delicate, full spectrum, and dynamic program sources, and try listening at multiple volume levels: low, medium, and high.
2. Installation/hanging: It is necessary to regularly check the safety, wear, deformation, corrosion and other factors that affect the load of the speaker installation or hanging components to ensure normal operation.
3. Cleaning: Use a dry, damp cloth or household cleaning agent to stain the speaker, and avoid using strong cleaning agents that may damage the surface coating of the speaker.
4. Surface scratch or dent treatment: For shallow and smaller surfaces, outdoor latex paint or similar colors can be used to mask them. For more severe scratches and dents Wood putty needs to be filled before repainting. No sound or low output sound pressure level
Wood putty needs to be filled before repainting. No sound or low output sound pressure level

distortion of peak
1. Power amplifier overload. Please lower the signal level.
2. Other electronic devices are overloaded. Please carefully check each level of equipment.
3. The speaker unit is not working properly. Please contact Sandy's after-sales service immediately.

Some frequency bands have no sound
1. The equalization setting is incorrect. Please ensure that all devices such as the mixer, preamplifier, equalizer, etc. have correct filtering and equalization settings, are working properly, and are well connected.
2. The processor settings are incorrect. Please ensure that the processor settings are compatible with the speaker system.
3. The mode switch of the speaker input panel is incorrect. Please ensure that the mode switch is in the correct state: single

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5. System Connection and Installation

Classical 2+1 connection method

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音箱线 Speaker cable
信号线 Signal line

调音台 mixer

Classic 4+2 connection method

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04. Data synchronization successful:
This page can preview all parameter settings:

Venue	Hanging Method	Parameter
1	1	1
2	2	2
3	3	3

05. This page is used for adjusting the delay between frequency and full frequency for different venues and hanging methods.

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07. System Connection and Debugging

01. After confirming the completion of the USB cable connection between the computer and the device, open the control software;
02. Find the corresponding DSP model in the software and click to open it;
03. After confirming the connection and selection of the corresponding model, a window will automatically pop up indicating whether it is the same as DSP data, and click "Yes";

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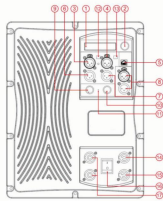
音箱线 Speaker cable
信号线 Signal line

调音台 mixer

Typical 4+2 connection method

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6. Power amplifier backplane, operation guide



- 01. LED display screen
- 02. Call the program knob (rotate to select, click to confirm, long press to update firmware)
- 03. A input XLR XLR port (directly input from the mixer or processor)
- 04. B input XLR XLR port (direct input from the mixer or processor)
- 05. USB connection to computer control software (requires a USB A-type male port to a USB B-type cable)
- 06. A output XLR XLR port (directly output to the next device)
- 07. B output XLR XLR port (directly output to the next device)
- 08. RS485 control connection port (can achieve simultaneous adjustment of multiple speakers)
- 09. A input volume control
- 10. B input volume control
- 11. Internal DSP intervention or bypass switch (can only be turned on when there is an external processor for frequency division or processing)
- 12. A/B input channel parallel or independent selection button (ultra low and full frequency input signal selection)
- 13. Speaker panel LED light control switch
- 14. Neutrik power CON lockable, three core (AC) power input connector (can string up to 8 Xi18A)
- 15. Neutrik power CON lockable, three core (AC) power direct output connector (can string up to 8 Xi18A)
- 16. Equipment main power switch
- 17. 2 Neutrik power CON speaker output connectors with 4 cores (each port can supply 1 Xi10A)

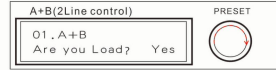
Call to Settings

Step 1. After turning on the device power, press button 2 once;

Part 2. Use button 2 to rotate left and right to select the corresponding settings (IN/indoor, OUT/outdoor);



The third part. Press button 2 to determine whether to call (rotate button 2 left and right to select NO/YES);



The fourth part. When the LED screen displays as follows, it indicates that the call setting was successful:



take care

When the screen displays 'Empty' as a blank setting!

