

iSound FBS

Feedback Suppressor



User Manual V2.0



Thank you very much for purchasing our product! Please be sure to read this manual carefully before using. To operate in strict accordance with the instructions in this manual, so that you can better use this product.

1. Function Features

1. Built-in 24Bit A/D, D/A conversion; 32-bit DSP processor.

High-speed floating-point digital audio processor and the most advanced Sub-Band and Echo cancellation technology can effectively eliminate echo and howling. All functions directly have corresponding shortcut keys, which are easy and fast to use.

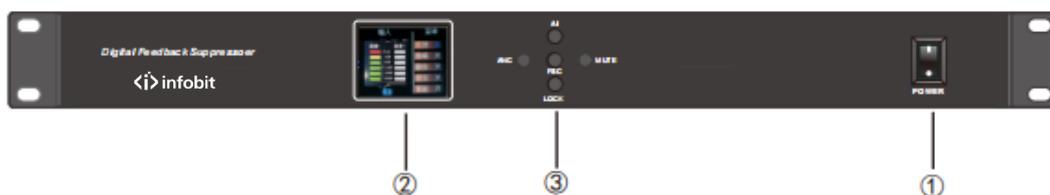
2. The working mode of fully automatic operation, free from manual debugging, accurate and reliable howling suppression, and easy to use.

3. Intelligent dynamic environment noise reduction technology, which can filter out the background noise of the scene environment without affecting the high-quality transmission of voice signals. Improve the signal-to-noise ratio and improve sound quality.

4. Intelligent control technology, improve the distance of picking up sound and obtain clear, continuous, and stable voice signal.

5. 2.0-inch color display screen, the status display of each function of the equipment is concise and clear.

2. Front Panel



- ① **Power switch:** used to turn on and off the power of the machine.
- ② **Color display screen:** It can display the parameters and the status of each function of the equipment.
- ③ **Function buttons:** FSC (feedback function shortcut button), AI (intelligent function shortcut button), ANC (noise reduction function shortcut button), LOCK (system lock shortcut button), MUTE (system mute button)

Function and operation:

1. **FSC (Feedback):** One touch to turn on/off the feedback function.

Feedback on/ off status display with real-time display.

2. **Noise Cancellation (ANC):** One touch to turn on or off the noise

canceling function. The on and off status display has a real-time display.

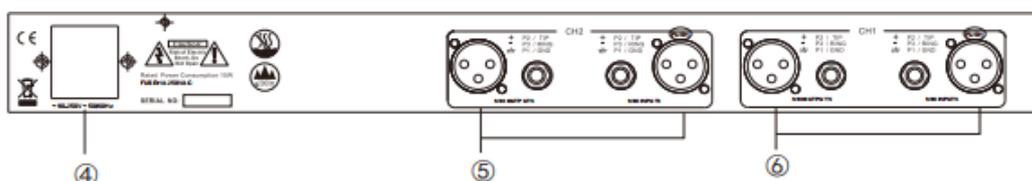
3. **Intelligence (AI).** The opening and closing of this function are the same as the 2nd and 3rd operation. (Note: You must turn down the input or power amplifier volume before turning on the smart control function, and then slowly turn up the volume to a suitable state!)

4. **Lock:** lightly press the LOCK (lock) button, the system enters the lock (), long press 3 to exit the lock and enter the unlock () state.

5. **MUTE (mute):** One touch to turn the feedback function on or off. Turn on the mute function, the system will automatically mute.

6. **Language switching:** long press the ANC (noise reduction) button for 3 seconds, the system will automatically switch between Chinese and English.

3. Rear Panel



④ **Power input socket:** Input the appropriate AC voltage according to the printing requirements.

⑤, ⑥, CH1, CH2 channel MIC input and output sockets, mixed output sockets: XLR and TRS two input and output sockets are available.

4. Use Debug

1. Device connection (see pictures 3 and 4)

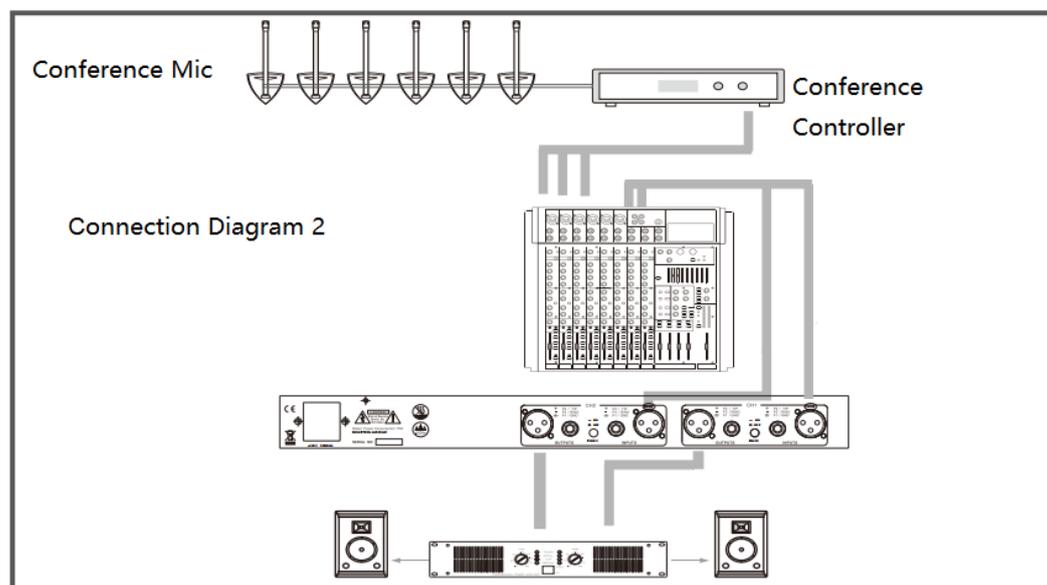
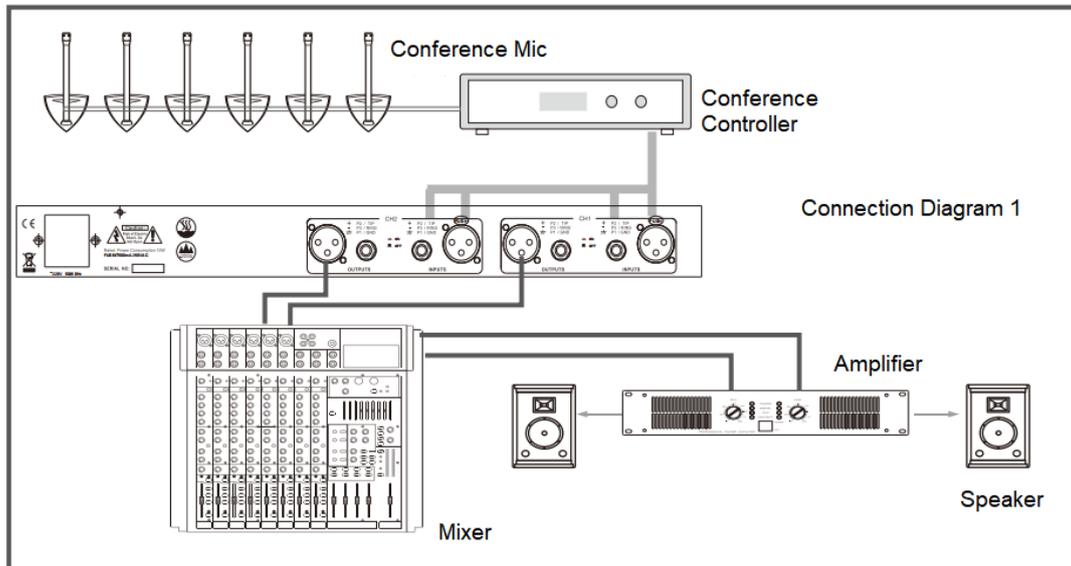
1.1 Before installing, debugging, and using this system, please read this user manual carefully.

1.2 The microphone signal input of this feedback suppressor is 2-channel XLR and 6.35 parallel balanced input, and the two XLRs are line balanced input interfaces.

1.3 Grounding: This equipment is grounded through the ground wire of the power cord, and the customer's power supply system must be reliably grounded to avoid additional noise.

1.4 Connection: The output of the hand-in-hand system or mixer, mixer, etc. can be connected to the line input of the machine, and the line input of the machine can be directly connected to the power amplifier or to the mixer. In short, the machine should be connected in series in the audio system. The connection method is equivalent to the equalizer and other peripherals, which act as a feedback suppressor.

1.5 System Wiring



5. Menu

After the equipment system is built, debug and set it up, and turn it on or off according to the actual on-site sound field feedback, noise

reduction, and intelligent gain matching functions.

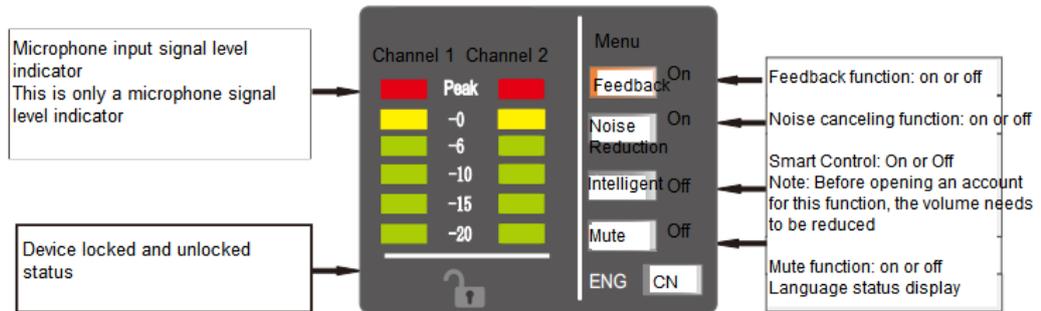


Figure Interface

6. Specifications

Microphone Input	
2-XLR and 2-TRS	Balanced or unbalanced input
Input Impedance	Balanced: 20K, Unbalanced: 10K
Mic input sensitivity	-5.5dBu(@Out=0dBu)
Machine performance	
Dynamic Range	>109dB (A-weighted)
Distortion	< 0.1%
Feedback suppression frequency response	+/- 1dB (20Hz to 13KHz)
direct frequency response	+/- 0.5dB (20Hz to 13KHz)
Dynamic Gain Boost	6-8dB
Working power supply	AC110-240V/50-60Hz
Power consumption	<20W
Size	480x220x44 (mm)
Weight	2.5Kg