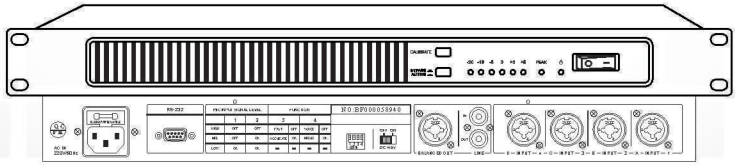
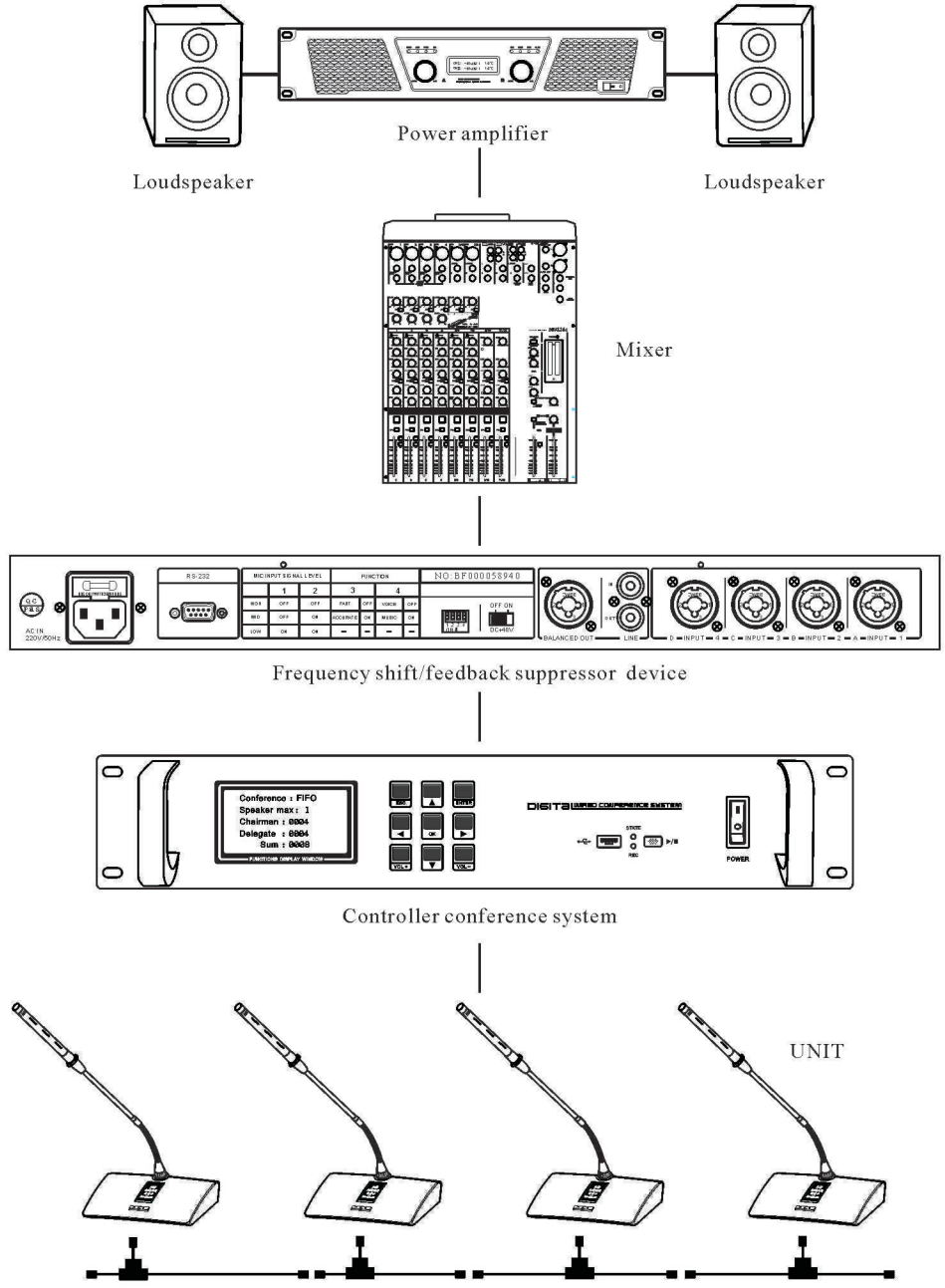
FREQUENCY SHIFT /FEEDBACK SUPPRESSOR DEVICE

OPERATION INSTRUCTIONS



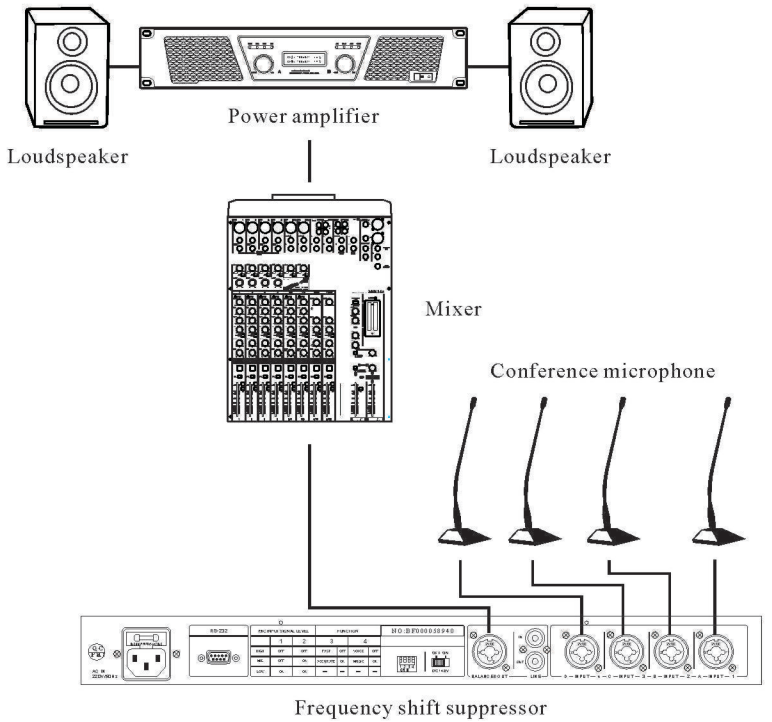
This operation manual would be revised at any time without prior notice.
This manual contains needed information as much as possible. If there is anything unclear, wrong or omitted, please don't hesitate to contact us for confirmation. The company is free from all the damage and loss caused by no confirmation.
For testing and maintenance, please contact us or our authorized distributors through the dealer from whom you purchased this product. The company assumes no responsibility for any loss or damage resulting from testing and maintaining this unit by unqualified personnel.

7.2 Connection with conference microphone system



7.Connection instruction

7.1 Connection with conference microphone



Note: the 48V power supply switch needs to be switched on to connect the 48V phantom power supply.

1.Product characteristics

1. Adaptive to various audio algorithms, no need configuration when use.
2. new upgrade, improve the transmission gain 8~10dB, effectively improve the local sound amplifier pressure and more clarity
3. Through the DSP to filter the sound, effective suppress howling effectively.
4. Dial switch adjustment realize multi-function.
5. One reset button, adjustment simple and quick.
6. Feedback control system design us flexible, with 4 way multi-function input port, suitable for different equipment output interface.
7. With a dedicated RAC interface, and can be connected to the device input and output functions.
8. Each input has 48V phantom power supply, support switched.
9. Professional digital feedback suppression module, directly connection / feedback mode, convertible.

2.Safety instructions

- Read this instruction manual.
- Keep this instruction manual for future reference.
- Follow all instructions in this instruction manual.
- Do not place the product near any heat sources such as radiators, stoves, or other devices that product heat. If you are not going to use the product for a long time, pull out the battery. Do not throw or drop the product in case it causes severe damages.
- Be aware of the supply voltage. Only the supply voltage listed on the instruction manual fits the product.
- Only use accessories specified by our company.
- Never take apart the device. If devices are took apart by customers in breach of this instruction, the warranty becomes null and void. Turn to the professional mechanic or local dealer for help if there is something wrong with the product.
- If components are needed to replaced, replace them with original components produced by our company.
- Leave the devices the minimum space of 30 mm for proper ventilation. Do not cover the vent with newspapers, cloths, curtains, etc.

Do not place the devices near fire or water.

Only professional mechanic can assemble the devices if it is labeled with hazard warning sign "⚡".

Recycle the replaced battery.

The devices can be used in tropical or temperate regions.



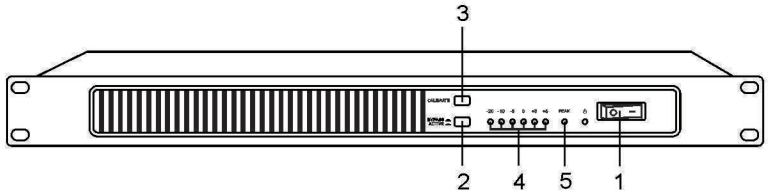
Only for safe use in the area with an altitude of below 2,000 meters.



The equipment can be used in non tropical climates.

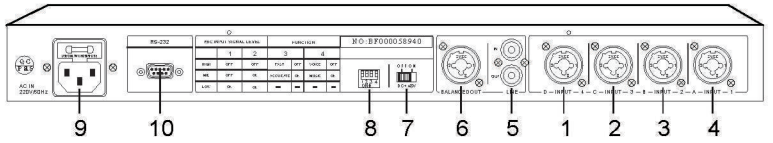
3.Function diagram

3.1 Front panel



1. Power switch.
2. Working mode switching key, BYPASS indicate a direct status, ACTIVE indicate a frequency shift feedback status.
3. Fast correction button, such as input level indicator (indicator 4) flashes several times, indicating a rapid correction status.
4. Input level indicator.
5. Input signal overload indicator, if the PEAK light is on, it means that the input level should be lower, so as to avoid signal distortion.

3.2 Back panel



1.microphone 1 input 2. microphone 2 input 3. microphone 3 input
4. microphone 4 input 5.IN -line input, OUT- line output 6.signals output
7. phantom power supply switch 8. signal input and working mode select
9. power socket 10.RS232 external equipment

4.Operation

1. This machine uses a powerful DSP system, actively filters the whistle, and removes the original signal before it occurs, so that the original signal is not affected.
2. Under normal use, the machine does not need to debug, automatically adapt to the acoustic environment (automatic adaptation process takes about 10 seconds), the entire system will be get an additional 6~12dB gain.
3. Such as the use of harsh environment (appeared repeatedly after the whistle sound) appeared abnormal, please be appropriate to reduce the volume, and then press the button of the fast correction, the noise -6dB will be randomly generated, then return to normal.

Signal input and work mode selection definition sheet

MIC INPUT SIGNAL LEVEL			FUNCTION			
	1	2	3		4	
HIGH	OFF	OFF	FAST	OFF	VOICE	OFF
MID	OFF	ON	ACCURATE	ON	MUSIC	ON
LOW	ON	ON	—	—	—	—

5.Product parameters

1. Power supply: AC220V (optional 110V)
2. Sampling rate: 48Khz
3. Frequency response range: 50Hz~15kHz
4. Transmission gain improve: 8~10dB
5. Noise suppression ratio: 18dB
6. Maximum analog input output: 1.5V Vpp

6.Soulutions to breakdowns

Care and maintenance
Before fixing or cleaning the device, cut off the electricity supply. Clean it with soft cloth.
For spots, clean it with cloth that has neutral cleaning solvent and dry it with another cloth.
Do not use gasoline, diluents or any other chemical product, or else the surface will be damaged.