

# FREQUENCY SHIFT DEVICE

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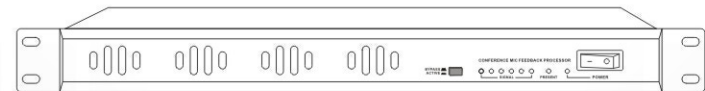
## OPERATION INSTRUCTIONS

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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.



## Feature

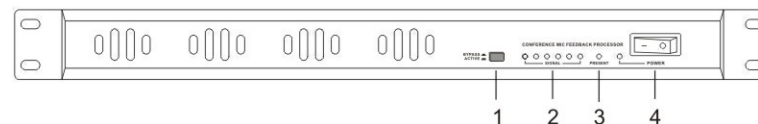
- 1.Product use digital frequency shift technology, can suppress squeal effectively, expend volume, make sure voice transmission quality, high fidelity, make voice clear.
- 2.Product greatly suppressed squeal back which can prevent break audio equipment and horn effectively.
- 3.Product easy setting, the operation is simple and convenient.
- 4.This product can be widely used in the conference room, KTV room, theatre, live audio system etc..
- 5.This product comes with a switch which control open or off the suppress function. The function can be used in various occasions flexibly.
- 6.The product comes with 48V phantom power supply, XLR input and 6.3 input can coexist, 4 + 4 way signal input which means totally 8 input, support 2 signal output.

## 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.
- Attention 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. It is only for safe use in the area with an altitude of below 2,000 meters.

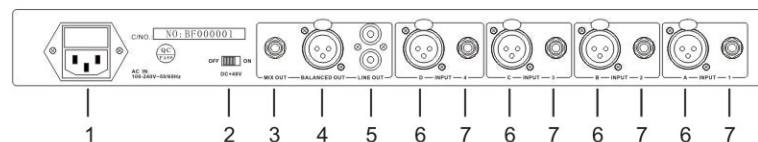


## Front panel indicator diagram



- 1.frequency suppressor function switch
- 2.input electronic level indicator light
- 3.input signal overload indicator light—if PRESET light on means have to set a lower input gain to avoid signal distortion.
- 4.Powe switch

## Rear panel indicator diagram



- |                |                                     |
|----------------|-------------------------------------|
| 1.Power socket | 2.48V phantom power switch          |
| 3. 6.35 output | 4. XLR output                       |
| 5. RCA output  | 6. signal input (48V phantom power) |
| 7. 6.35 input  |                                     |

## Debug operation

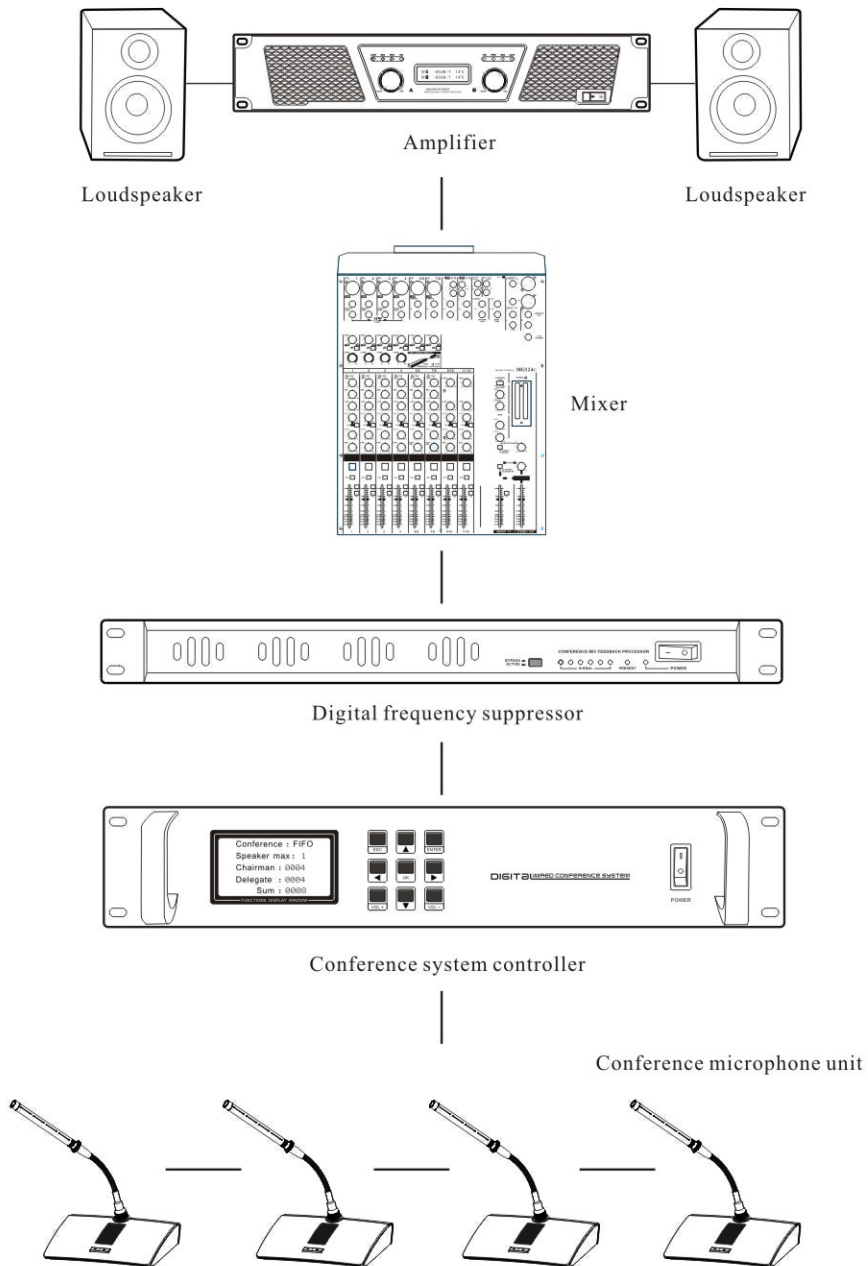
- 1.Product supply 4 ways 48V phantom power, suitable for different capacitance microphone use.
- 2.Product will automatically adjust the input level gain according to the working situation.
- 3.Product use profession high speed floating point and AFC (adaptive feedback control) calculation method, the whole system can get extra 5-10dB gain.
- 4.Product self-check one time when open, indicator light will light 5 seconds.

## Parameter:

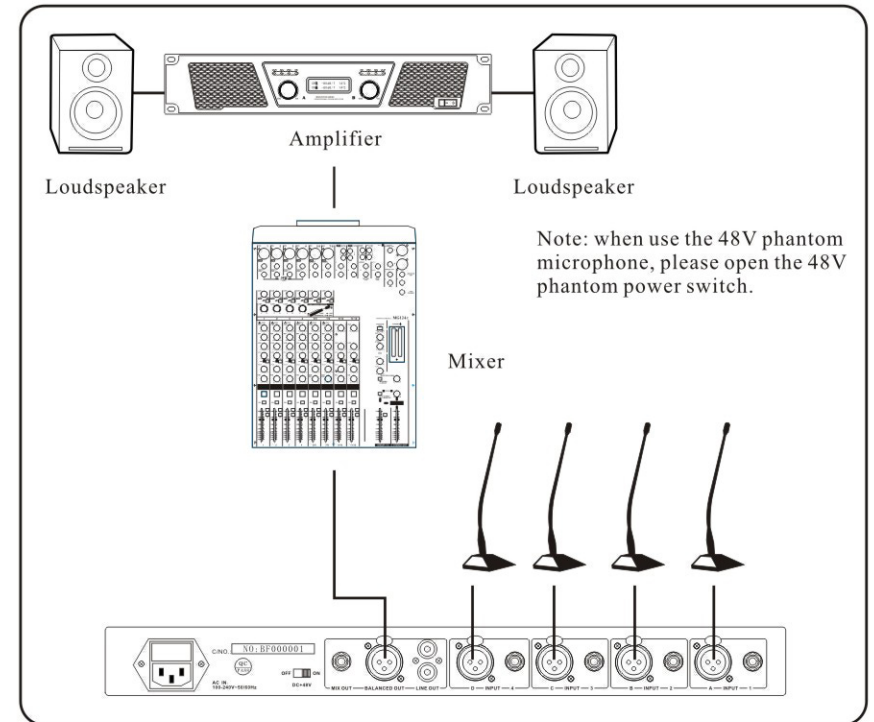
Power supply : AC 100-240V 50Hz/60Hz  
 Frequency response: 100Hz-16KHz  
 Amount of frequency shift: 4Hz-6Hz  
 Amount of gain: 5-10dB

Input impedance:  $\geq 10K\Omega$   
 Output impedance:  $1K\Omega$   
 S/N ratio:  $> 70dB$   
 Power: 6W

## Connection diagram



## Connection diagram



## Solutions to breakdowns

Breakdowns	Causes	Solutions
Can't work, no power indicate	No power supply	Check the power
	Haven't open the power switch	Open the power switch
	Power cable didn't connect well	Connect the power cable well
Low volume	Input volume low	Adjust output gain
Sound distortion	Input volume too high	Adjust output gain
48V phantom product can't use	Haven't open the 48V phantom switch	Open the 48V phantom switch