



Best Sound System from Japan

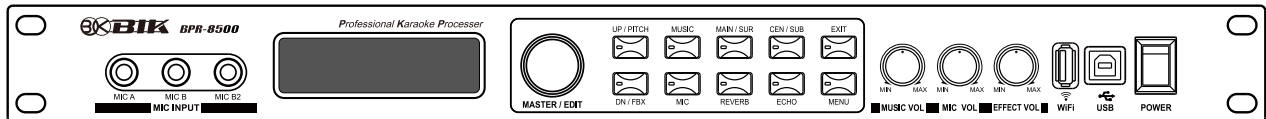
**B-Questa®**

**OWNER'S MANUAL**

**使用说明书**

**BPR-8500**

**Karaoke AV Processor  
卡拉OK效果处理器**



Thank you for purchasing our Professional Karaoke AV Professor.

Please read the owner's manual thoroughly prior to use.

Please keep this manual for future reference.

感谢您购买本公司的专业卡拉OK效果处理器。

为了尽快的熟悉掌握本产品的各项功能，使用前请仔细阅读本说明书。



阅读后，请注意妥善保管。

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## CAUTION FOR SAFETY

This "Caution for safety" shows various kinds of pictures in order to be used safely and correctly and to prevent from damaging other people, and their property. Please read with full understanding, and carefulness.

 <b>WARNING</b>	This shows: Using this product with disregarding cautions might call for death or injury.
 <b>CAUTION</b>	This shows: Using this product with disregarding cautions might call for people to be harmed and goods to be damaged.

### WARNING

- Making use of this product under the circumstances that a smoke, an abnormal smell, an irregular sound coming out, it may cause a fire and an electric shock. In this case, switch off the product, and take AC plug out of the outlet right away. Bring it to the shop for repair.
- In case water or foreign substances get into product, switch off right away, and take AC plug out of outlet, and consult with the repair shop, otherwise, it may cause a fire or an electric shock.
- Re-assembling this product is strictly prohibited, otherwise, it may cause a fire or an electric shock.
- Do not take the cover out, otherwise, it may cause an electric shock. Inspection, repair should be done in the repair shop.
- This product can no way be used in the bathroom, otherwise, it may cause a fire, or an electric shock.
- Pay attention for water not to go into or get wet. Or it may cause a fire or an electric shock.
- This product can be used only with AC220V - AC240V, otherwise it may cause a fire or receive an electric shock.
- This product is not designed for built-in installation: Do not place the product in an enclosed place such as a bookcase or a rack.
- Be careful for AC plug, or outlet not to get dust or to get wet, or it may cause a fire.

### CAUTION

- When this product is not used for a longer period, power supply plug should be taken out of outlet.
- In case the thunder is generated near-by, take power supply plug out of outlet right away, or it may cause a fire or an electric shock.
- If this product needs to be moved, switch off first, and then take power supply plug out, or it may damage cord, and may cause a fire or an electric shock.
- Do not put this product near cooking counter or damp supply outlet, or it may cause a fire or an electric shock.
- Do not put this product on unstable desk, it may cause damage or injury when dropped.
- Do not leave this product for a longer period such as in the cars where all windows are shut, or place where direct sunshine hits, or it may damage each part of this product, and may cause a fire.

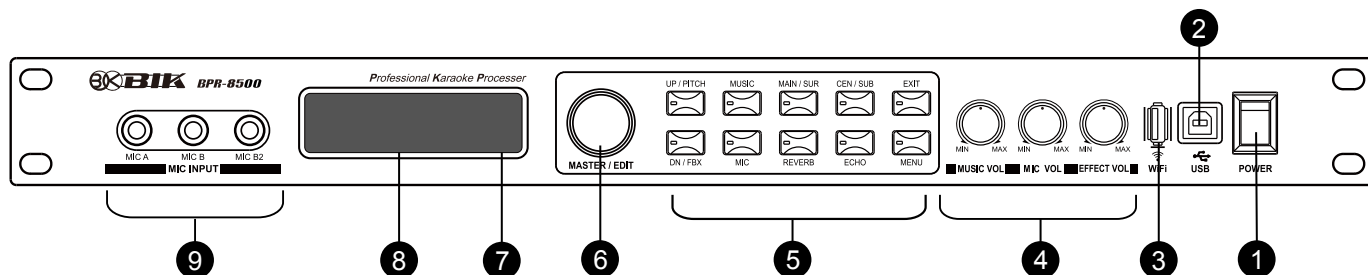
## FUNCTION AND NAME

### FUNCTION

- 48kHz sampling rate, 32-bit floating point DSP arithmetic process, 24-bit AD/DA convert.
- 2 independent MIC processor, 5 MIC input can be connected, with independent gain control, noise gate, optional types LPF and HPF, 15 band PEQ (parameter can be adjusted and saved), optional 8 class feedback killer.
- MIC effect with master volume control, limiter, ECHO with 5 band PEQ( can be low/high cut), effect can be chosen, stereo and mono, dual effect can be chosen, delay, repeat, pre delay and liveliness parameter can be adjusted separately; REVERB with 5 band PEQ (can be low/high cut), decay, predelay, liveliness adjust, and direct sound effect processor.
- Music channel with master volume control, limiter, noise gate, optional types low/high cut, 15 band PEQ(parameter can be adjusted and saved), key shift. 3 stereo music input, BGM and VOD, AUX with single input volume control, automatic and manual switching mode can be chosen, 1 optical input and 1 coaxial.
- 5.1 channel output: L/R output, center output, surround output, Sub woofer output.
- Output with independent volume control, mute, delay, balance, compressor (parameter can be adjusted), 10 band PEQ (Can be Low/high cut).
- Center output with independent volume control, mute, delay, compressor (parameter can be adjusted), 10 band PEQ (Can be low/high cut).
- Surround output with independent volume control, mute, delay, compressor (parameter can be adjusted), 10 band PEQ (Can be low/high cut).
- Sub woofer output with independent volume control, mute, delay, compressor (parameter can be adjusted), 10 band PEQ, optional types low cut, high cut, delay.
- Output channel with dance music and sing setting function, auto and manual mode can be chosen. In the mode of automatic mode, when opening the MIC, it enter singing mode; when closing the MIC, it enter dance music mode.
- 2 MIC process channel can connect with different style MIC, such as Wireless MIC, Wire MIC, console MIC. different curves with different modifies, let the MIC tone be the perfect.

- Beautiful and visual PC software window, All the functions operate on the PC software.  
The software with lock function, the panel with USB port, remote distance control port on the rear panel, make the system more safety and convenient.

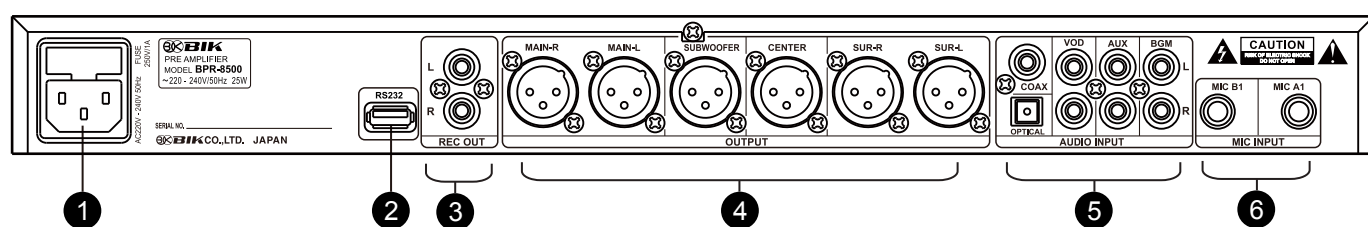
## FRONT PANEL



- 1 Power Switch.**
- 2 USB port.**  
USB connect the computer with the PC software to control the device.
- 3 WiFi port.**  
WiFi connect the computer with the PC software to control the device.
- 4 Effect / Mic / Music Master Volume.**  
Adjustment of Effect and Mic, Music volume.
- 5 Menu Select Button.**
  - ① Press the Menu button to adjust.
  - ② Turning "MASTER/EDIT" to select the item, and push "MASTER/EDIT" knob to decide.
  - ③ Turn the "MASTER/EDIT" to change set up value, and push the "MASTER/EDIT" knob to decide.

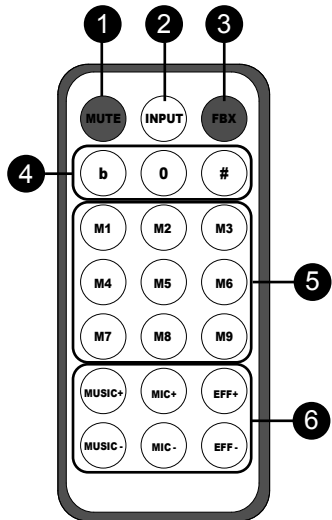
※ Function details: Please see page 22.
- 6 MASTER / EDIT Setting Knob.**  
Turn the Knob to change the set data for PITCH or FBE. First push and second turn the Knob, when you want to change the set data for MUSIC, MIC, MAIN/SUR, REVERB, CEN/SUB, ECHO or MENU.
- 7 IR Receiver.**
- 8 LCD Display.**  
Shows all the operation menu.
- 9 Mic Input Jack.**  
MIC A, B B2 can be connected with 2 different microphone input, process separately.

## Rear Panel



- 1 Power Cord Socket.**  
Power input AC 220~240V, 50Hz.
- 2 RS232 port.**  
Connect with VOD.
- 3 Record output.**  
Connect with record device, music and microphone synchronous recording.
- 4 Audio output.**  
L/R balanced output (MAIN-R and MAIN-L, SUBWOOFER, CENTER, SUR-R, SUR-L), connect with Power amplifier system.
- 5 Audio Input.**  
Audio input can switch to VOD, AUX, BGM, Optical, Coaxial Manually, switch among VOD and AUX, BGM on Automatical choice.
- 6 Mic input.**  
A1, B1 is MIC A and B parallel input channel, can connect with 2 different microphone input.

## Remote Control



**1 Mute Button.**  
Sound dies by pressing it, and go back to original by re-pressing it.

**2 Input Changing Button.**  
VOD, AUX, BGM, COAX, Optical to be changed in order.

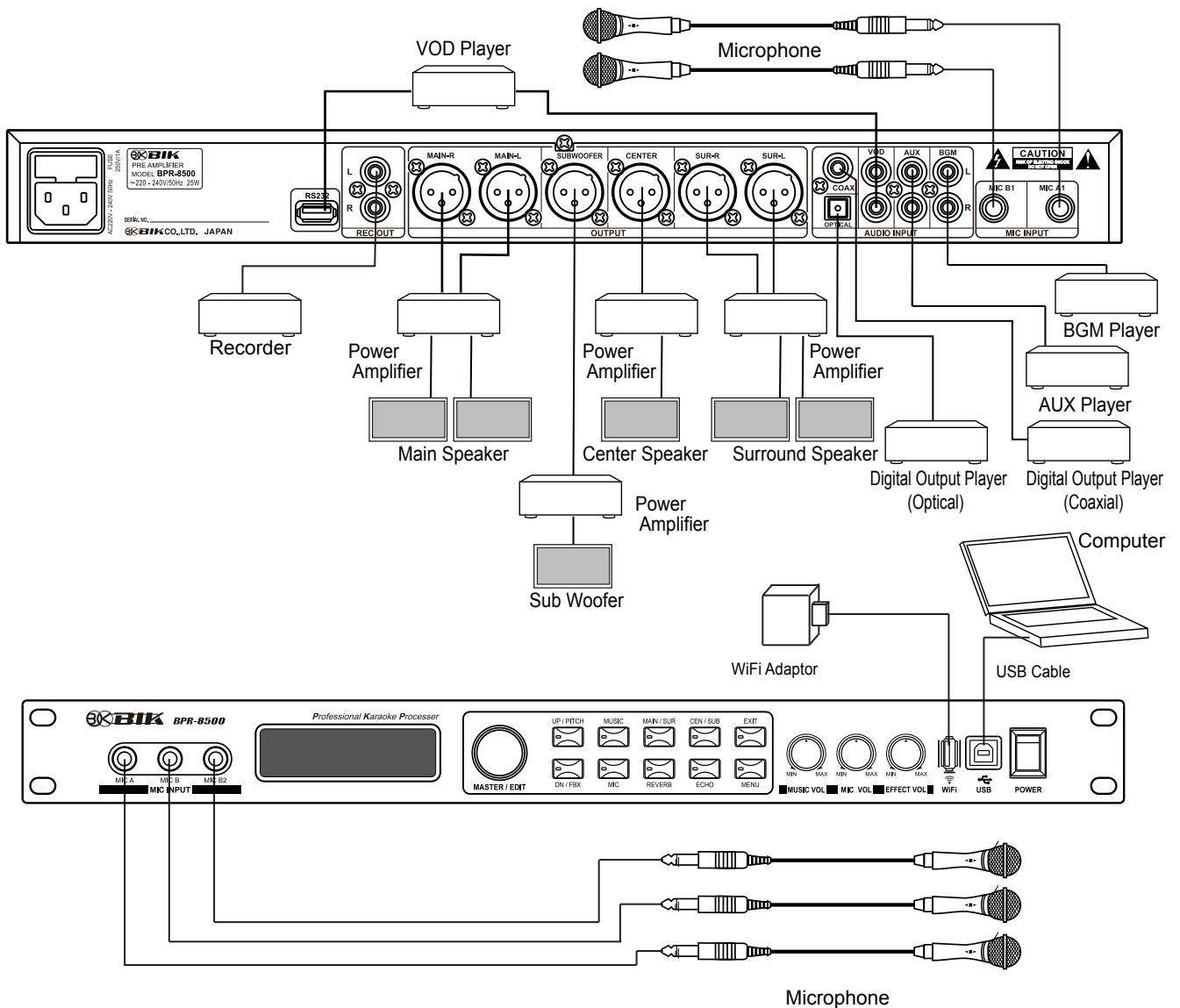
**3 MIC FBX Control Button.**

**4 Key Control Button.**  
For adjusting musical tone, up or down.  
b : To make it down  
# : To make it up  
0 : Make it to Original.

**5 User Preset Mode Switch Button.**  
U01-U09 is user preset mode, you can recall any mode to use.

**6 Volume Control Button.**  
Adjust Music, Effect and Mic volume.

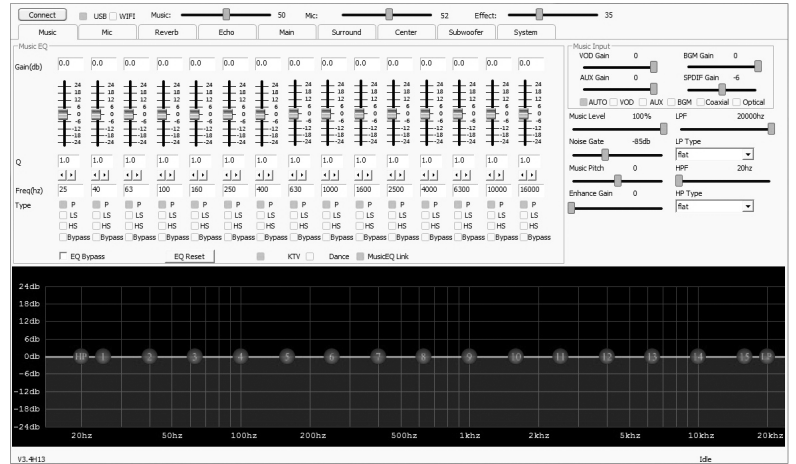
## CONNECTION



## PC SOFTWARE

Please download “BPR-8500 PC SOFTWARE” from BIK home page.

※ URL: <http://www.bik-audio.com/product/bpr-8500/>

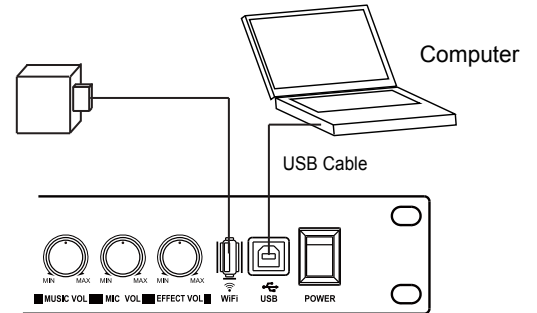


### 1. How to connect USB cable?

Connect computer and the pre amplifier with USB cable, turn on pre amplifier, the computer will find a new hardware automatically.

### 2. How to connect WiFi Adaptor?

Connect the WiFi Adaptor and the pre amplifier, turn on pre amplifier, the computer set WiFi connection to DSP\_AUDIO\_\*\*\*\*\*.



## PC SOFTWARE WINDOW

### 1 USB or WiFi selection

Select connection mode “USB or WiFi”. Selected mode turn to green.

### 2 Connect button

One key type link, green means connected, gray means disconnected.

### 3 Master volumes

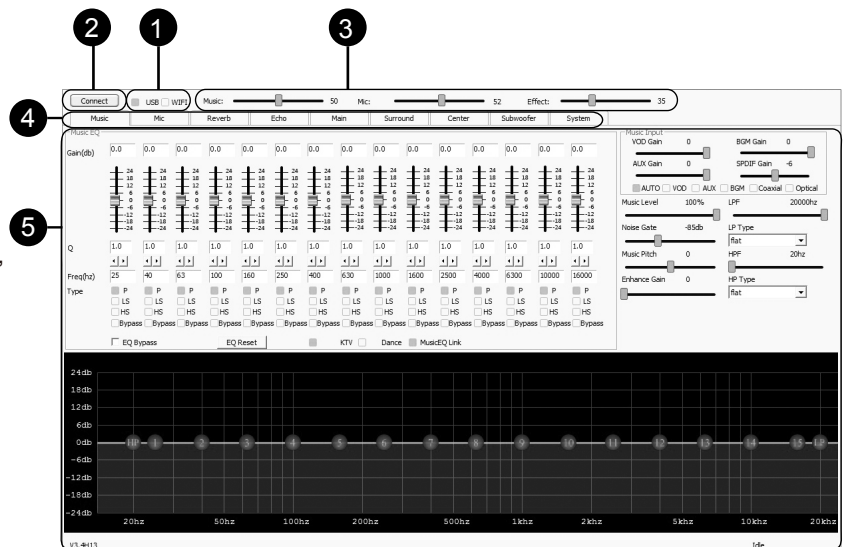
Adjust Music, Mic, and Effect volume.

### 4 Menu

Set the channel parameter selected, and system parameter.

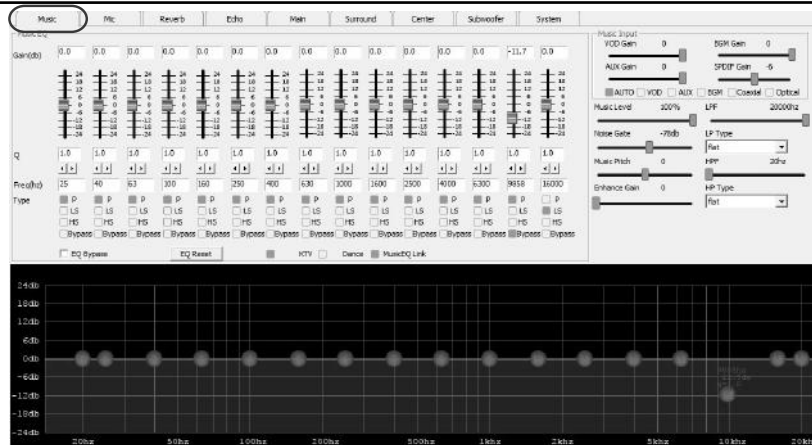
### 5 Setting screen

Set the channel parameter selected.



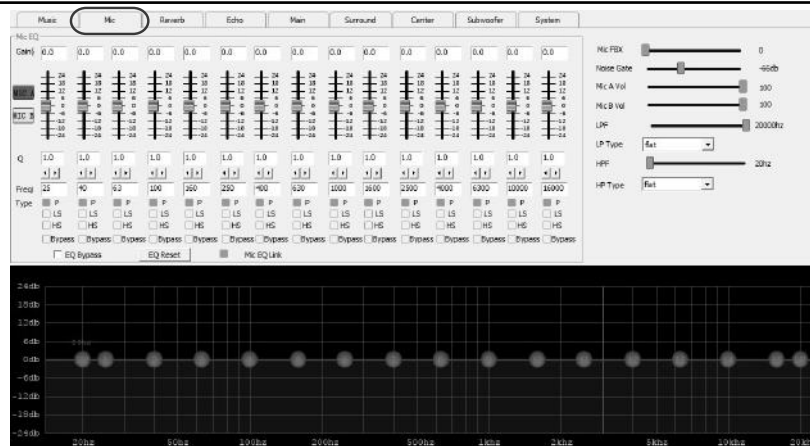
# PC SOFTWARE OPERATION INSTRUCTION

## MUSIC MENU



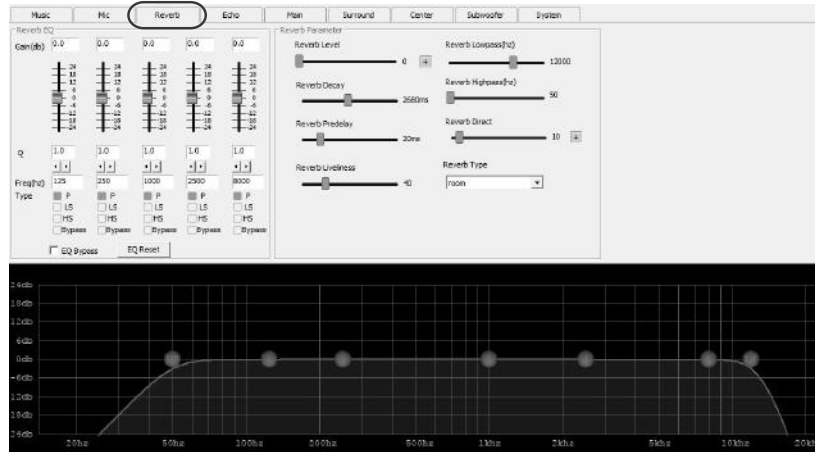
- 1 MUSIC INPUT**  
Audio input can be chosen from VOD, AUX, BGM, OPTICAL, COAXIAL, and VOD, BGM, or AUX input can be automatically switched.
- 2 INPUT GAIN**  
Adjust Gain of VOD and AUX, BGM, SPDIF.  
(RANGE:-12~0dB, Step:1dB)
- 3 MUSIC EQ**  
Adjust Music EQ.  
(BAND:1~15, FREQUENCY:20~20000Hz)  
(TYPE:PEQ/LS/HS/Bypass, GAIN:-24dB~+24dB)  
(RANGE:0.5~100, LSEQ/HSEQ:RANGE:0.5~2)
- 4 MUSIC LEVEL**  
Adjust Music Level.(RANGE:0~100%)
- 5 NOISE GATE**  
Adjust Noise Gate.(OFF,-99~-59dB)
- 6 MUSIC PITCH**  
Adjust music tone control.(b1~b7, 0, # 1~#7)
- 7 ENHANCE GAIN**  
Adjust Enhance Gain.(GAIN:0~16)
- 8 MUSIC HIGHPASS**  
Adjust HP filter frequency and style.  
(FREQUENCY:20~20kHz)  
(FLAT/BL\_12/BW\_12/BL\_18/BW\_18/BL\_24/BW\_24/LR\_24)
- 9 MUSIC LOWPASS**  
Adjust LP filter frequency and style.  
(FREQUENCY:20~20kHz)  
(FLAT/BL\_12/BW\_12/BL\_18/BW\_18/BL\_24/BW\_24/LR\_24)

## MIC MENU



- 1 MIC FBX LEVEL**  
8 class feedback killer selection.The more setting value higher, the more feedback control higher.  
(0 : OFF,)
- 2 MIC NOISE GATE**  
Adjust Mic noise gate.Signal lower than setting level gradually declines.  
(OFF, -80dB ~ -40dB)
- 3 MIC EXCITER**  
The more setting value higher, the more "EXCITER" effect bigger.
- 4 MIC1/2 EQ LINK**  
(OFF, ON:Link)
- 5 MIC A/B VOLUME**  
Adjust Mic A/B volume. (RANGE:0 ~ 100)
- 6 MIC HIGHPASS**  
Adjust HP filter frequency and style.  
(FREQUENCY:20~20kHz)  
(FLAT/BL\_12/BW\_12/BL\_18/BW\_18/BL\_24/BW\_24/LR\_24)
- 7 MIC LOWPASS**  
Adjust LP filter frequency and style.  
(FREQUENCY:20~20kHz)  
(FLAT/BL\_12/BW\_12/BL\_18/BW\_18/BL\_24/BW\_24/LR\_24)
- 8 MIC EQ**  
Adjust MIC EQ. (BAND:1~15, FREQUENCY:20~20000Hz)  
(TYPE:PEQ/LS/HS/Bypass, GAIN:-24dB~+24dB)  
(RANGE:0.5~100, LSEQ/HSEQ:RANGE:0.5~2)

## REVERB MENU



### 1 REV LEVEL

Adjust reverb level and polarity. (RANGE:0 ~ 100, "+" or "-")

### 2 REV TYPE

Set Reverb type. (HALL/ROOM/PLATE)

### 3 REV DECAY

Adjust decay time. The more setting value higher, the longer time noises decline take. (RANGE:500~5000ms)

### 4 REV PREDELAY

Adjust predelay time. (RANGE:0~100ms)

### 5 REV DIRECT

Adjust direct level and polarity. (RANGE:0 ~ 100, "+" or "-")

### 6 REV LIVELINESS

Adjust Reverb liveliness. (RANGE:20~99)

### 7 REV HIGHPASS

Adjust reverb highpass filter frequency. (FREQUENCY:20~1000Hz)

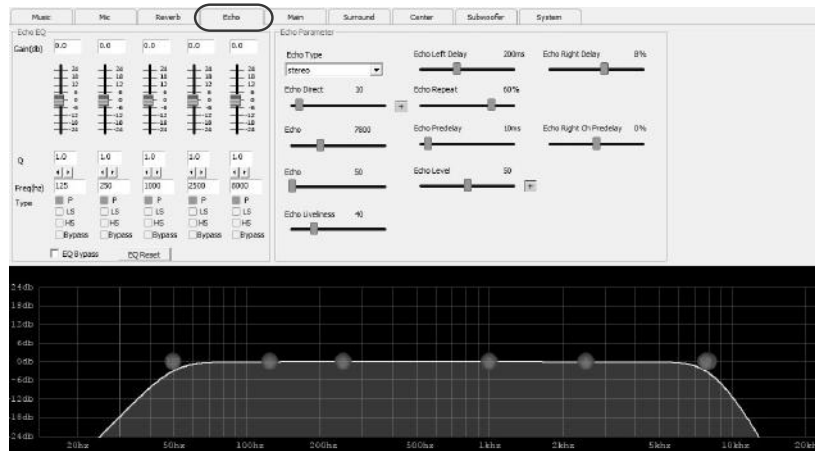
### 8 REV LOWPASS

Adjust reverb lowpass filter frequency. (FREQUENCY:4000~16000Hz)

### 9 REV EQ

Adjust Reverb EQ. (BAND:1~5 / FREQUENCY:20~20kHz / TYPE:PEQ,LS,HS) (GAIN:-24dB~+24dB / BANDWIDTH: 0.4~99.9)

## ECHO MENU



### 1 ECHO DIRECT

Adjust direct level and polarity. (RANGE:0 ~ 100, "+" or "-")

### 2 ECHO TYPE

Set the Echo type. (MONO/STEREO/DUAL)

### 3 ECHO DELAY

Adjust Echo delay time. (RANGE:1~500ms)

### 4 ECHO REPEAT

Adjust Echo repeat. (RANGE:0~80%)

### 5 ECHO LEVEL

Adjust Echo Level and polarity. (RANGE:0~100, "+" or "-")

### 6 ECHO PREDELAY

Adjust Echo predelay time. (RANGE:0~100ms)

### 7 ECHO HIGHPASS

Adjust Echo highpass filter frequency. (FREQUENCY:20~1000Hz)

### 8 ECHO LOWPASS

Adjust Echo lowpass filter frequency. (FREQUENCY:4000~16000Hz)

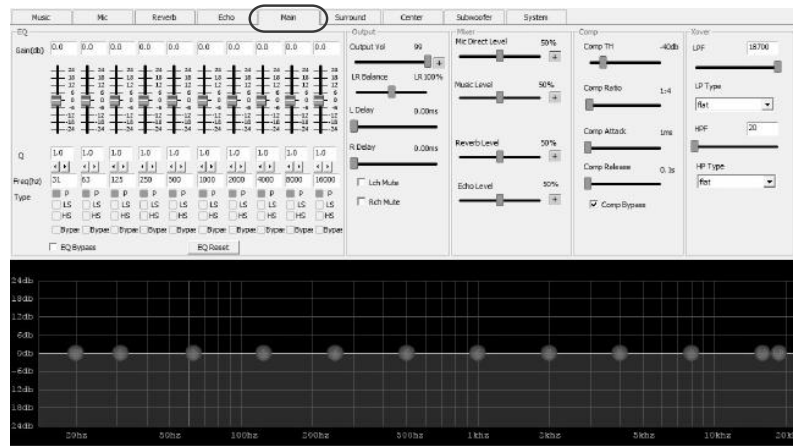
### 9 ECHO EQ

Adjust Echo EQ. (BAND:1~5 / FREQUENCY:20~20kHz / TYPE:PEQ,LS,HS) (GAIN:-24dB~+24dB / BANDWIDTH: 0.4~99.9)

### 10 ECHO LIVELINESS

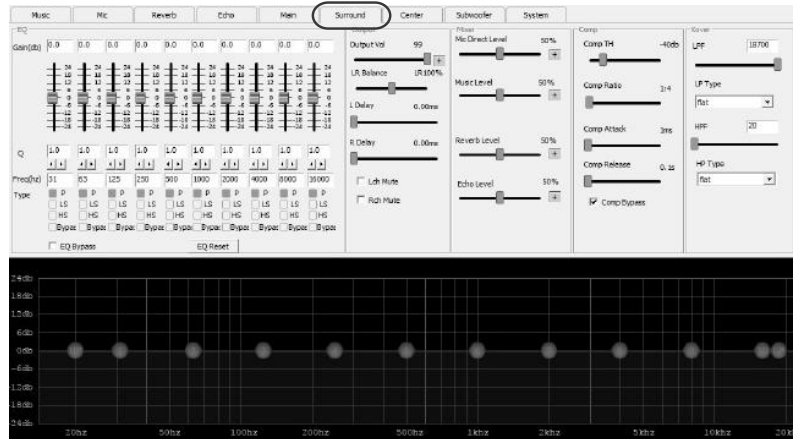
Adjust Echo Liveliness.(RANGE:20~99)

## MAIN MENU



- 1 **MAIN VOL**  
Adjust volume and polarity. (RANGE:0 ~ 99, "+" or "-")
- 2 **MAIN VOL BALANCE**  
Adjust L/R volume balance. (RANGE:L/R0~100%)
- 3 **MAIN DELAY**  
Adjust delay time. (L DELAY/ R DELAY, 0 ~ 50ms)
- 4 **MAIN MUTE**  
Control mute or unmute of output. (L MUTE/ R MUTE)
- 5 **MAIN MIXER**  
Adjust Mic, Music, Reverb, Echo volume and polarity. (RANGE:0 ~ 100%, "+" or "-")
- 6 **MAIN COMP SET**  
Adjust Threshold and Ratio, Attack, Release. (-50dB ~ 0dB / 1:2 ~ 1:100 / 1 ~ 90ms / 0.1 ~ 2.5s)
- 7 **MAIN COMP**  
(OFF, ON:Check)
- 8 **MAIN HIGHPASS**  
Adjust highpass filter frequency. (FREQUENCY:20 ~ 20kHz)
- 9 **MAIN LOWPASS**  
Adjust reverb lowpass filter frequency. (FREQUENCY:20 ~ 20kHz)
- 10 **MAIN EQ**  
Adjust main output EQ. (BAND:1~10 / FREQUENCY:20 ~ 20kHz / TYPE:PEQ, LS, HS) (GAIN:-24dB ~ +24dB / BANDWIDTH: 0.4 ~ 99.9 )

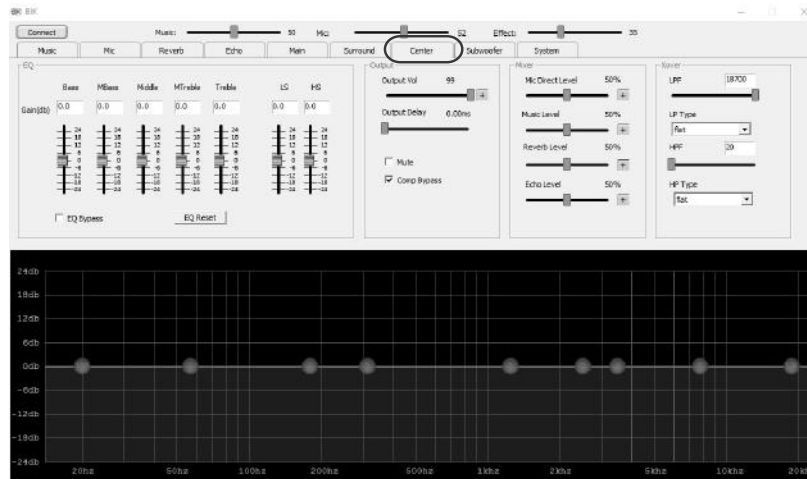
## SURROUND MENU



- 1 **SURROUND VOL**  
Adjust volume and polarity. (RANGE:0 ~ 99, "+" or "-")
- 2 **SUR VOL BALANCE**  
Adjust L/R volume balance. (RANGE:L/R0~100%)
- 3 **SURROUND DELAY**  
Adjust delay time. (L DELAY/ R DELAY, 0 ~ 50ms)
- 4 **SURROUND MUTE**  
Control mute or unmute of output. (L MUTE/ R MUTE)
- 5 **SURROUND MIXER**  
Adjust Mic, Music, Reverb, Echo volume and polarity. (RANGE:0 ~ 100%, "+" or "-")
- 6 **SURROUND COMP SET**  
Adjust Threshold and Ratio, Attack, Release. (-50dB ~ 0dB / 1:2 ~ 1:100 / 1 ~ 90ms / 0.1 ~ 2.5s)
- 7 **SURROUND COMP**  
(OFF, ON:Check)
- 8 **SURROUND HIGHPASS**  
Adjust highpass filter frequency. (FREQUENCY:20 ~ 20kHz)
- 9 **SURROUND LOWPASS**  
Adjust reverb lowpass filter frequency. (FREQUENCY:20 ~ 20kHz)
- 10 **SURROUND EQ**  
Adjust surround output EQ. (BAND:1~10 / FREQUENCY:20 ~ 20kHz / TYPE:PEQ, LS, HS) (GAIN:-24dB ~ +24dB / BANDWIDTH: 0.4~99.9 )

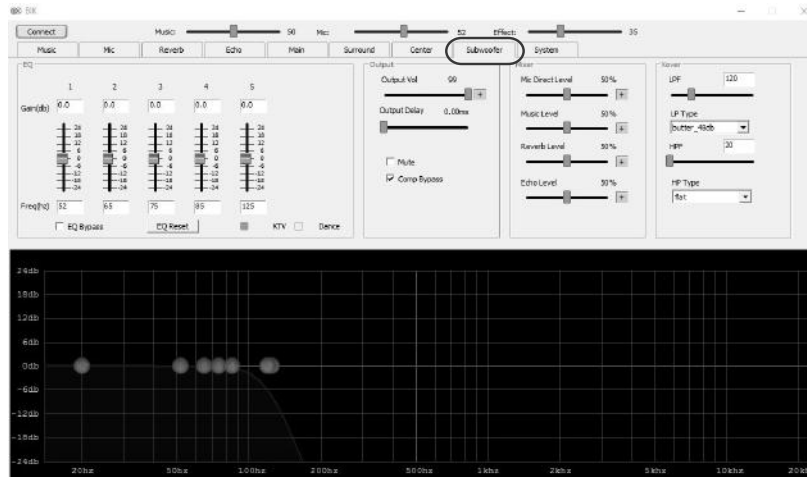


## CENTER MENU



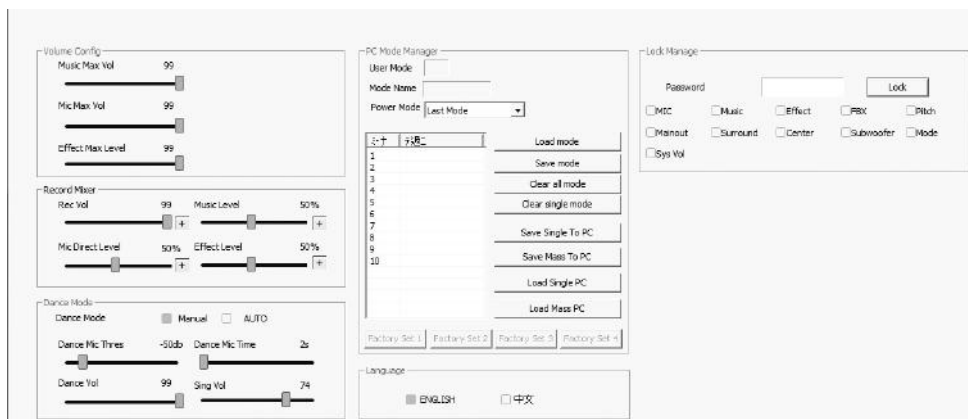
- 1 **CENTER VOL**  
Adjust volume and polarity.  
(RANGE:0 ~ 99, "+" or "-")
- 2 **CENTER DELAY**  
Adjust delay time. (RANGE:0 ~ 50ms)
- 3 **CENTER MUTE**  
Control mute or unmute of output.
- 4 **CENTER MIXER**  
Adjust Mic, Music, Reverb, Echo volume and polarity.  
(RANGE : 0 ~ 100, "+" or "-")
- 5 **CENTER COMP**  
Adjust Threshold and Ratio, Attack, Release.  
(-50dB ~ 0dB / 1:2 ~ 1:100 / 1 ~ 90ms / 0.1 ~ 2.5s)
- 6 **CENTER HIGHPASS**  
Adjust highpass filter frequency.  
(FREQUENCY:20 ~ 20kHz)
- 7 **CENTER LOWPASS**  
Adjust reverb lowpass filter frequency.  
(FREQUENCY:20 ~ 20kHz)
- 8 **CENTER EQ**  
Adjust surround output EQ.  
(BAND:1~7 / FREQUENCY:20~20kHz), TYPE:PEQ,LS,HS)  
(GAIN:-24dB ~ +24dB / BANDWIDTH: 0.4~99.9 )

## SUBWOOFER MENU



- 1 **SUBWOOFER VOL**  
Adjust volume and polarity.  
(RANGE:0 ~ 99, "+" or "-")
- 2 **SUBWOOFER DELAY**  
Adjust delay time. (RANGE:0 ~ 50ms)
- 3 **SUBWOOFER MUTE**  
Control mute or unmute of output.
- 4 **SUBWOOFER MIXER**  
Adjust Mic, Music, Reverb, Echo volume and polarity.  
(RANGE:0 ~ 100%, "+" or "-")
- 5 **SUBWOOFER COMP**  
Adjust Threshold and Ratio, Attack, Release.  
(-50dB ~ 0dB / 1:2 ~ 1:100 / 1 ~ 90ms / 0.1 ~ 2.5s)
- 6 **SUBWOOFER HIGHPASS**  
Adjust highpass filter frequency.  
(FREQUENCY:20 ~ 20kHz)
- 7 **SUBWOOFER LOWPASS**  
Adjust reverb lowpass filter frequency.  
(FREQUENCY:20 ~ 20kHz)
- 8 **SUBWOOFER EQ**  
Adjust surround output EQ.  
(BAND:1~5 / FREQUENCY:20~20kHz / TYPE:PEQ,LS,HS)  
(GAIN:-24dB ~ +24dB / BANDWIDTH: 0.4~99.9 )

# SYSTEM MENU



## 1 VOLUME CONFIG

Adjust Max volume of Music and Mic, Effect.  
(RANGE:20~99)

## 2 RECORD MIXER

Adjust REC volume and Level of Music, Mic Direct, and Effect and polarity.  
(REC volume:0~99, "+" or "-" / Level : 0~100%, "+" or "-")

## 3 DANCE MODE

Adjust Mic Threshold, and Mic Time, Dance volume, Sing volume.  
(Dance volume : 0 ~ 99)(Sing volume : 0 ~ 99)

When microphone signal shows down than setting value, subwoofer changes to "Dance Mode."  
(Mic Threshold : -60dB~0dB)

When microphone signal shows higher than setting value, subwoofer changes to "Karaoke Mode."  
(Dance Mic Time : 1~30s)

## 4 Memory Function

Preserving setting up information from U1 to U10, your preferable choice can always be called.

## Any troubles?

Any troubles? please check the followings. Your careless mistakes may cause troubles.  
Consult with your dealers in case any troubles can not be solved after checking the followings.

Trouble	Cause	Remedy
No power is applied to the unit. Power on, but no sound.	<ul style="list-style-type: none"> <li>● The power cord is not connected.</li> <li>● Music volume control or Mic. volume control may be set to minimum position.</li> <li>● Music signal choice is incorrect.</li> <li>● The output cords is not connected correctly.</li> <li>● The power amplifier switch is not ON.</li> </ul>	<ul style="list-style-type: none"> <li>● Connect the power cord to AC outlet.</li> <li>● Adjust for proper sound position.</li> <li>● Choose correct music signal input.</li> <li>● Connect the output cord correctly.</li> <li>● Turn ON the power amplifier.</li> </ul>
No sound at beginning of the music when switched on.	<ul style="list-style-type: none"> <li>● Output level of audio component is set to minimum.</li> </ul>	<ul style="list-style-type: none"> <li>● Adjust it to suitable position.</li> </ul>
No microphone sound but playback the music sound.	<ul style="list-style-type: none"> <li>● Microphone switch is "OFF" position.</li> <li>● The microphone cord broken.</li> <li>● Microphone plug is not connected.</li> </ul>	<ul style="list-style-type: none"> <li>● Set it to "ON".</li> <li>● Repair or replace it.</li> <li>● Connect it correctly.</li> </ul>
No echo.	<ul style="list-style-type: none"> <li>● Echo volume is minimum.</li> </ul>	<ul style="list-style-type: none"> <li>● Adjust the Echo volume.</li> </ul>
Remote control not in operation.	<ul style="list-style-type: none"> <li>● The power amplifier switch is not ON.</li> <li>● No batteries are in the unit.</li> <li>● Batteries ran down.</li> </ul>	<ul style="list-style-type: none"> <li>● Turn ON the power amplifier.</li> <li>● Check batteries.</li> <li>● Change batteries to new ones.</li> </ul>

## SPECIFICATIONS

Frequency Response ..... 20Hz - 20kHz  
 Total harmonic Distortion ..... 0.03% (max)  
 S/N Ratio ..... 100 dB (min)  
 Cross Talk ..... 75 dB (min)  
 Music Input (L / R)  
   Sensitivity ..... 500 mV  
   Input impedance ..... 20 kΩ  
 Microphone input  
 (MIC A / A1, MIC B / B1 / B2)  
   Sensitivity ..... 40 mV  
   Input impedance ..... 2.2 kΩ  
 Output  
   MAIN OUT (L/R) ..... 6.0 V  
   CENTER OUT ..... 6.0V  
   SUB-WOOFER OUT..... 6.0 V  
   AUX OUT (L/R) ..... 6.0 V  
   REC OUT (L/R) ..... 6.0 V  
 Key Control ..... 15 steps  
 Feedback killer (FBX) ..... 8 steps

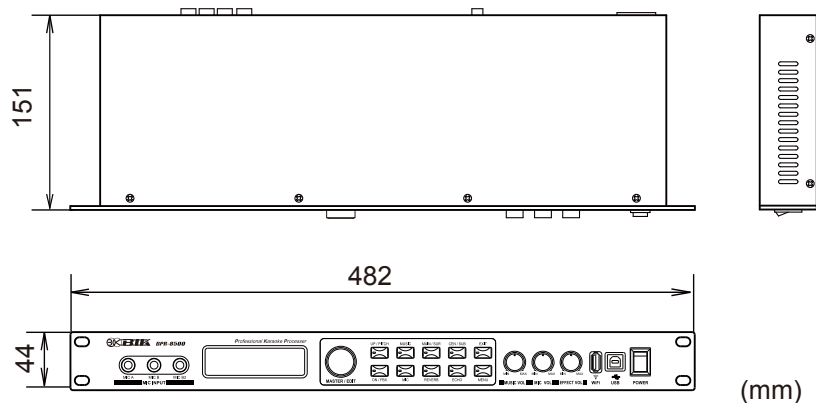
### Power supply, Others

Power Voltage ..... 220V ~ 240V/50Hz  
 Power consumption ..... 25 W  
 Dimensions (W X H X D) ..... 482 X44 X 151 mm  
 Weight ..... 2.8 kg

### Accessories

Owner's manual ..... 1  
 Remote Controller ..... 1  
 Power Cable ..... 1



- Design and specifications subject to change without notice.



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## 安全注意事项

安全注意事项是为了安全正确使用本商品、防止给自己及他人带来财产损失。  
以下用图标的形式加以注明。请仔细阅读本文。

 <b>警告</b>	<b>警告</b> 无视或误用会有造成人身事故的可能性。
 <b>注意</b>	<b>注意</b> 无视或误用会有造成人身伤残、或对财产损坏的可能性。

### 警告

- 在使用时、如果有冒烟、异味、异音等异常现象发生、为避免发生火灾、触电现象等、请立即切断本机电源、然后拔下AC电源插头。确认没有再冒烟后、到贩卖店进行修理。
- 在使用时如有水或异物等混入机体内、首先切断机体电源、然后拔下电源插头。请尽快与经销商联系、进行修理。
- 在未进行维修的状态下使用、会引起火灾、触电现象等问题。
- 请勿分解、改装本机器、会引起火灾、触电、故障等现象。绝对不可以打开本机器的外壳、会引起触电事故。内部的检查、修理等请委托经销商。
- 请勿在浴室内使用、会引起火灾、触电等现象。
- 请防止机器进水或使机器受潮、会引起火灾、触电等现象。
- 电源插头不要插入电压（AC220V - AC240V）以外的电源上。有造成火灾、触电的危险。
- 请不要用带有灰尘、或带有湿气的插头和插座、会引起火灾等现象。

### 注意

- 旅行等长时间不使用时、为了安全请务必拔下插头。
- 如近距离内有雷电现象时、请拔下电源插头、由于雷电原因、会引起火灾、触电、故障等现象。
- 移动时首先关闭电源开关、然后务必拔下电源插头。
- 请勿放置在灶台、加湿器及有油烟、雾气的地方。会引起火灾、触电等现象。
- 请勿放置在不安稳的桌上、或倾斜的地方。会容易掉落、翻倒而造成损坏、损伤等现象。
- 请勿放置在紧闭车窗的汽车内、或阳光直射及高温的地方。以免造成零部件的损坏、而引起火灾。

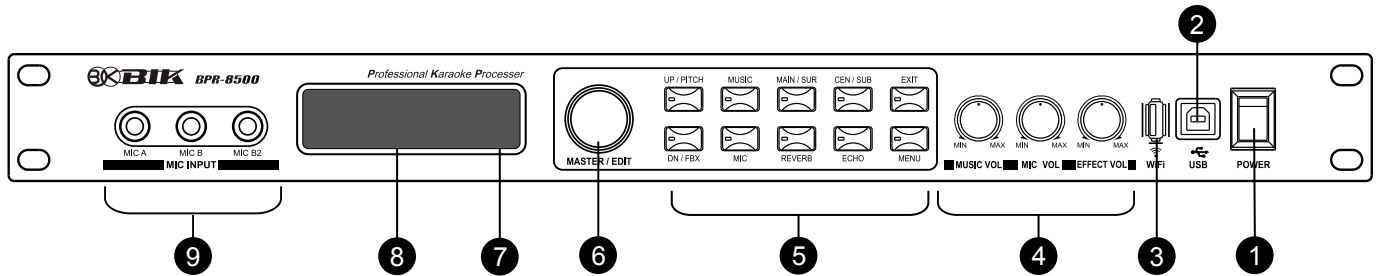
## 产品特点

### 功能

- 采用32位高性能DSP和AD/DA，24位，48K采样纯数字的专业KTV前置效果器。
- 独特的麦克风反馈拟制算法，有8级强度可调。
- 专业演唱的回音效果，有单声道回声/立体声回声/双回声三种类型，可自由地调整。
- 多样可选的混响效果，有大厅/房间/板房三种类型，满足不同的要求。
- 麦克风激励器，使歌唱变得轻松自如。
- 具有音频处理器的功能，拥有超精细的延时调整。
- 光纤和同轴音频数字输入接口，获得更完美的音源。
- 音乐的变调功能，随时满足不同歌唱者的要求；即时和自动的超低音加强舞会模式。
- 音乐的K歌模式和动感模式。
- 加强的开关机静音功能，不再为开关机的杂音和损坏音箱而烦恼。
- 5组麦克风输入，麦克风高通滤波器和低通滤波器，拥有双麦克风输入，MIC A和MIC B，双路独立的15段参量均衡。
- 立体声模拟音乐输入，15段参量均衡，高通滤波器和低通滤波器。
- 3组音频自动优先输入，背景音乐BGM功能。
- 输出通道都可以独立的混音、高低分频器、主输出\环绕\中置\超低音都有10段参量均衡、延时、压限、极性变换、音量调节、静音。

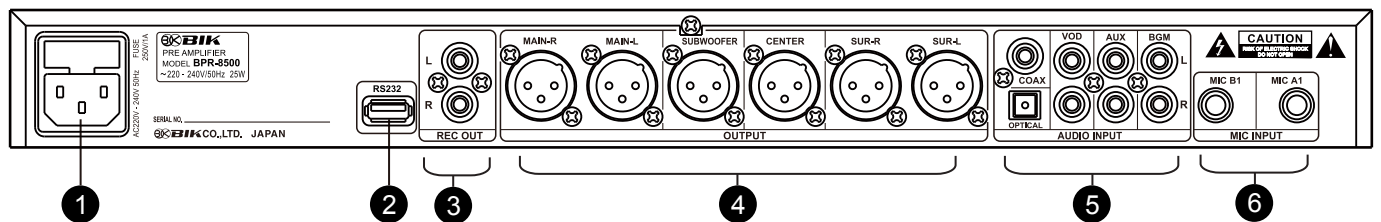
- 一组立体声录音输出，具有独立的音量调节和混音功能。
- 管理者、用户和初级模式，密码管理；密码按键锁的功能。
- 拥有10组用户参数存储和调用，4组出厂参数调用。
- VOD点歌控制接口(RS232)，无线红外遥控和功能。
- 免驱动USB接口或者连接WIFI无线连接，实时通过PC软件控制全部参数。

## 前面板



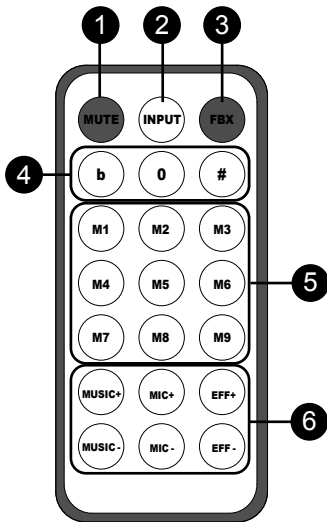
- 1 电源开关**  
用来切换ON/ OFF
  - 2 USB通信接口**
  - 3 WIFI接口**
  - 4 音乐音量旋钮, 麦克风音量旋钮, 麦克风效果音量旋钮**
  - 5 功能按键区**  
Up/Pitch: 上移键/音乐变调快捷键  
在主界面, 按Up/Pitch键, 可快捷进入音乐变调功能, 再用Master旋转选择, 用Master/Edit按键确定。在功能菜单, 编辑状态时用于移动闪动的字符, 改变编辑的参数位置。  
Dn/Fbx: 下移键/麦克风反馈抑制设置快捷键  
在主界面, 按Dn/Fbx键, 可快捷进入反馈抑制设置功能, 再用Master旋转选择, 用Master/Edit按键确定。在功能菜单, 编辑状态时用于移动闪动的字符, 改变编辑的参数位置。  
Music: 音乐功能菜单键  
Mic: 麦克风功能菜单键
  - 6 主控制/编辑带按键旋钮**  
在功能菜单, 用Master/Edit旋转浏览菜单, 用Master/Edit按键进入编辑状态; 再用Master/Edit旋转改变参数值, 用Master/Edit按键退出编辑状态。
  - 7 红外线遥控接收窗口**
  - 8 16x2字符LCD显示屏, 用于显示各种参数调节的信息**
  - 9 3路麦克风输入插孔**
- Reverb: 麦克风混响功能菜单键  
Echo: 麦克风回声功能菜单键  
Main/Sur: 主输出功能菜单键/环绕输出功能菜单键  
Gen/Sub: 中置输出功能菜单键/超低音输出功能菜单键  
Exit: 退出键  
Menu: 系统功能菜单键  
※详细内容请见22页。

## 后面板



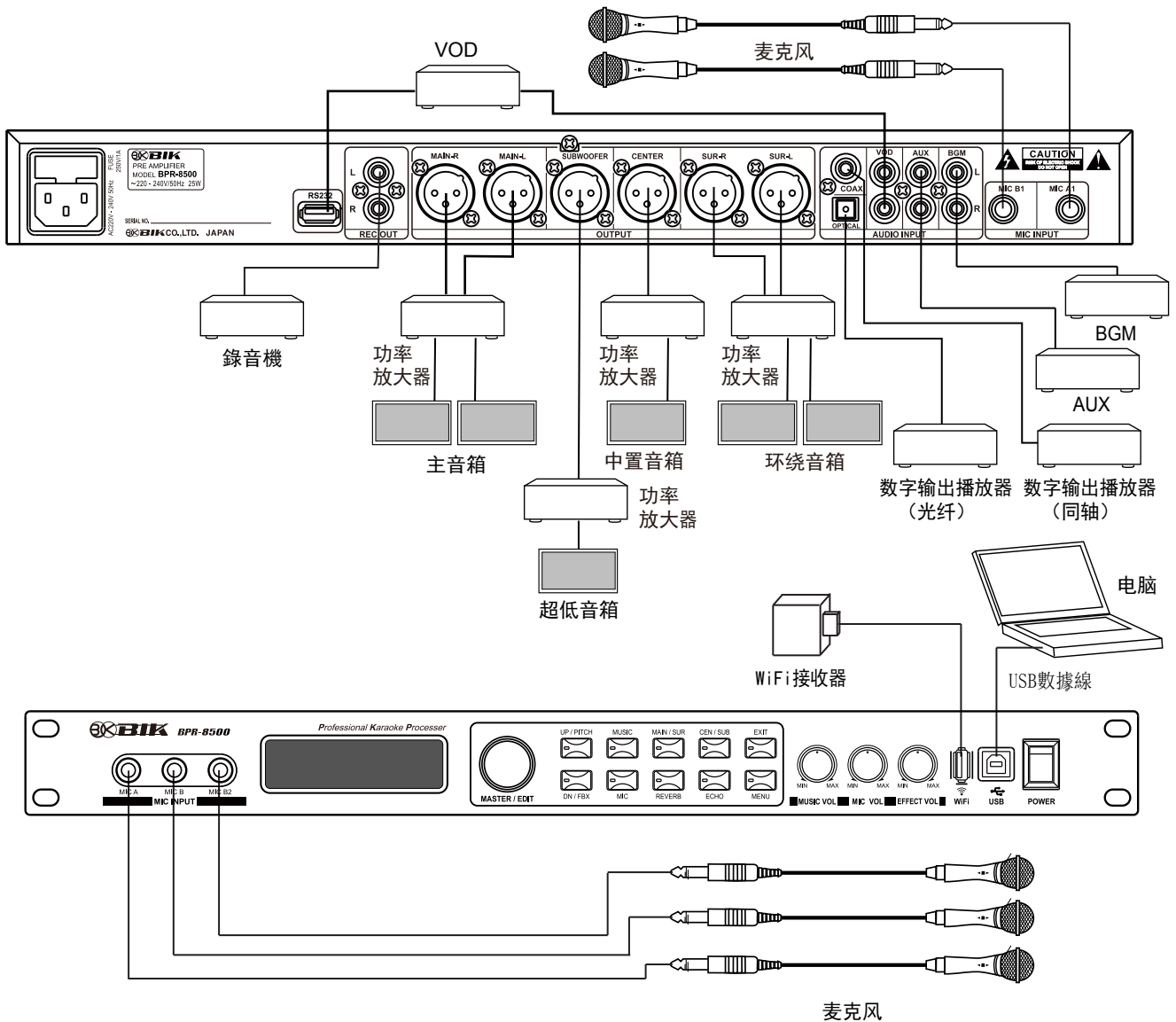
- 1 电源线插座**  
电源电压 AC 220~240V, 50Hz.
- 2 RS232 通讯接口**  
实现外部VOD设备控制效果器 (RS232)
- 3 立体声录音输出接口**
- 4 输出端子**  
各声道信号输出。
- 5 音频信号输入端子**  
(BGM, AUX, VOD, COAX, OPTICAL)
- 6 麦克风A1 / B1 插口**

# 遥控器



- 1 静音按键**  
按一次即变为静音状态，再按一次返回原状态。
- 2 信号输入切换按钮**  
按此按键的时候会依据VOD, AUX, BGM, COAX, Optical。
- 3 F. B. X键**  
啸叫抑制键其功能是减少麦克产生的啸叫。
- 4 音乐升降调按键**  
b: 降调 #: 升调 0: 恢复原状态。
- 5 九种效果存储按键**
- 6 音量控制键**  
音量用“+”、“-”键控制调节。

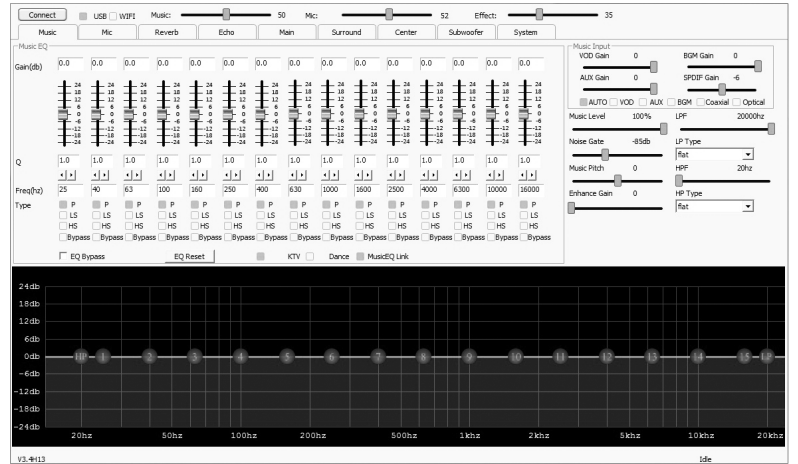
## 连接方法



## PC軟件

BPR-8500 的调试软件请在BIK官方网站下载。

※ URL: <http://www.bik-audio.com/product/bpr-8500/>



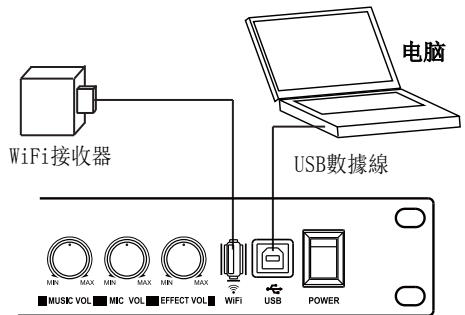
### 1. 使用USB数据线的连接方法

用USB数据线将本机与电脑连接起来。电脑自动识别后即可操作。

### 2. 使用WiFi的连接方法

将WiFi接收器差入本机。

在电脑上面将“DSP\_AUDIO\_\*\*\*\*\*”连接WiFi。WiFi连接后即可操作。



## PC軟屏

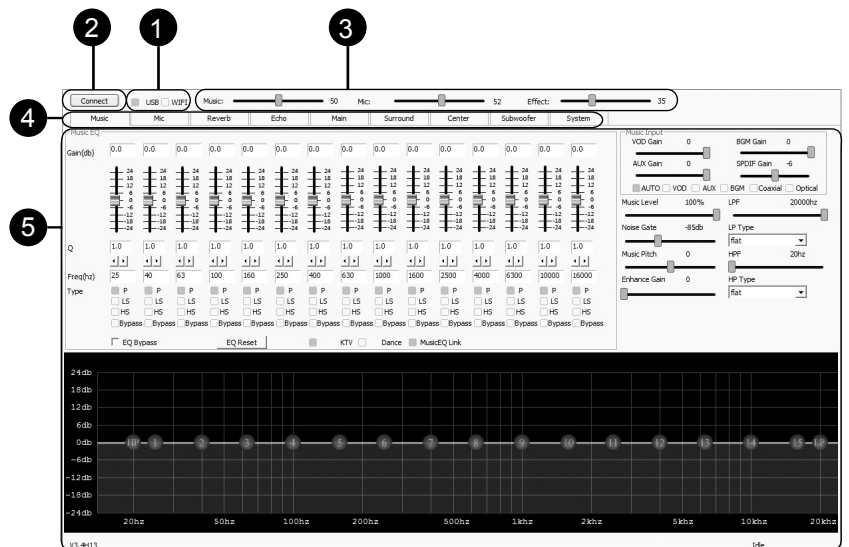
1 USB数据线与WiFi连接选择按键  
绿色表示已选定。

2 连接按钮  
用鼠标点击连接前级效果器。绿色表示已连接，灰色表示未连接。

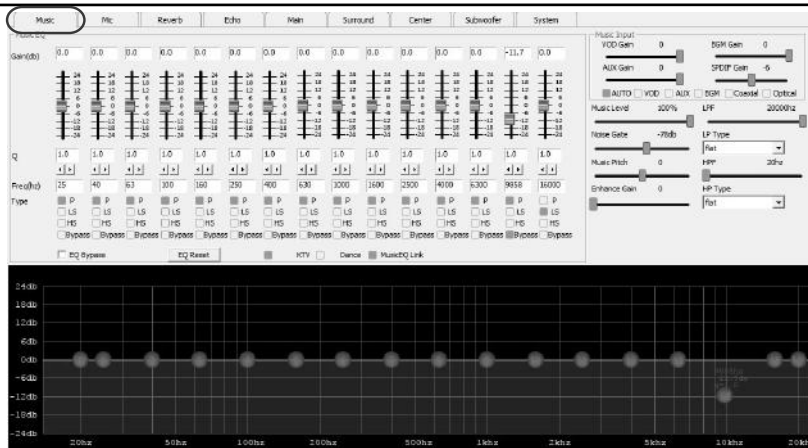
3 音量控制  
音乐音量, 麦克风音量, 麦克风效果音量。

4 菜单选项窗口

5 调节设置屏幕



音乐功能



1 音乐输入选择 (MUSIC INPUT)

音乐输入选择模拟音源, 有AUTO/M\_VOD/M\_AUX/M\_BGM四种模式; 数字音源的选择, 有COAXIAL和OPTICAL两种。视频选择输入和模拟音频输入同步

AUTO模式说明

模拟音频输入会按照VOD→AUX→BGM的优先顺序检测当前音频信号, 比如AUX有音频信号, 接入AUX; 当播放的音频停止40秒后, 将自动切换到BGM的音频通道上; 若此时按照VOD→AUX的优先顺序检测有音频信号, 又将自动切换到有音频通道上

2 音乐输入预增益 (INPUT GAIN)

可分别对VOD/AUX/BGM/SPDIF预调整 (范围:-12~0dB, 步进:1dB)

3 音乐参量器均衡器 (MUSIC EQ)

(频段:1~15, 频率:20~20000Hz) (类型:PEQ/LS/HS/Bypass, 增益:-24dB~+24dB) (带宽:PEQ模式0.5~100, LSEQ/HSEQ模式0.5~2)

4 音乐高通滤波器 (MUSIC HIGHPASS)

(频率:20~20kHz) (类型:FLAT/BL\_12/BW\_12/BL\_18/BW\_18/BL\_24/BW\_24/LR\_24)

5 音乐低通滤波器 (MUSIC LOWPASS)

(频率:20~20kHz) (类型:FLAT/BL\_12/BW\_12/BL\_18/BW\_18/BL\_24/BW\_24/LR\_24)

6 音乐变调 (MUSIC PITCH)

(b1~b7为降调, 0关闭变调效果, #1~#7为升调)

7 音乐电平 (MUSIC LEVEL)

(范围:0~100%)

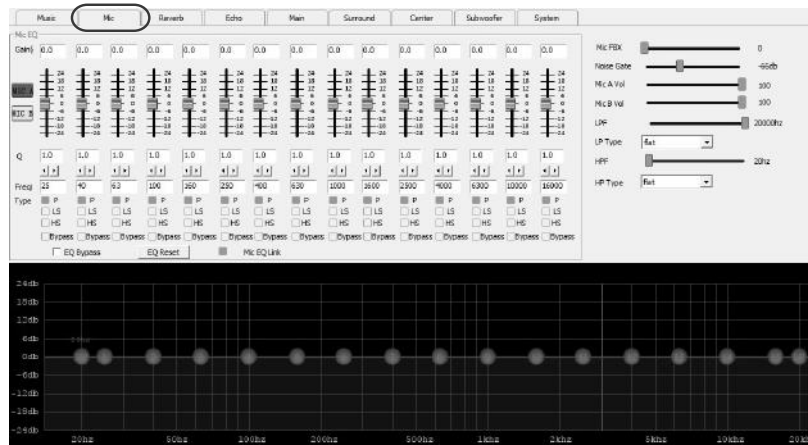
8 噪声门 (NOISE GATE)

(范围:OFF, -99~-59dB)

9 扩展长度 (ENHANCE GAIN)

(范围:0~16)

麦克风功能



1 麦克风反馈抑制 (MIC FBX LEVEL)

0为OFF, 1~8为麦克风反馈抑制级数, 数值越大反馈抑制越深。设置后, 回到主界面会有o1/ o2/ o3等的显示

2 麦克风噪声门 (MIC NOISE GATE)

噪声门开启相对电平, 高于设定电平的信号可通过, 低于设定电平的信号被衰减 (范围:OFF, -80dB ~ -40dB)

3 麦克风高通滤波器 (MIC HIGHPASS)

(频率:20~20kHz) (FLAT/BL\_12/BW\_12/BL\_18/BW\_18/BL\_24/BW\_24/LR\_24)

4 麦克风低通滤波器 (MIC LOWPASS)

(频率:20~20kHz) (FLAT/BL\_12/BW\_12/BL\_18/BW\_18/BL\_24/BW\_24/LR\_24)

5 麦克风激励器 (MIC EXCITER)

0为OFF, 1~24为麦克风激励级数, 数值越大激励越明显

6 麦克风A/B 参量均衡器关联 (MIC1/2 EQ LINK)

ON为打开, OFF为关闭

7 麦克风A/B输入音量 (MIC A/B VOL)

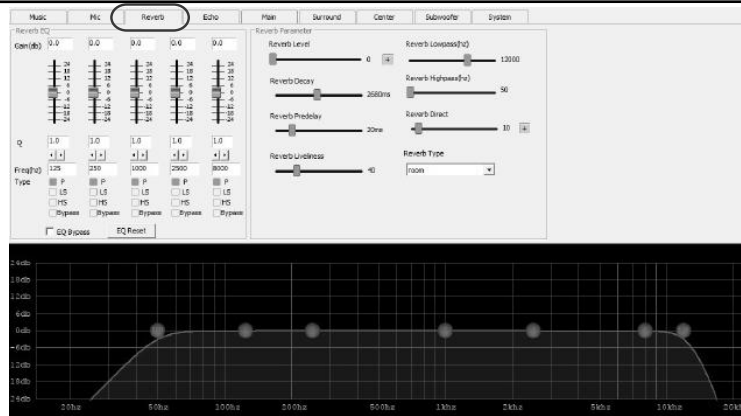
(范围:0~100)

8 麦克风A/B参量器均衡器 (MIC A/B EQ)

(频段:1~15, 频率:20~20000Hz) (类型:PEQ/LS/HS/Bypass, 增益:-24dB~+24dB) (带宽:PEQ模式0.5~100, LSEQ/HSEQ模式0.5~2)

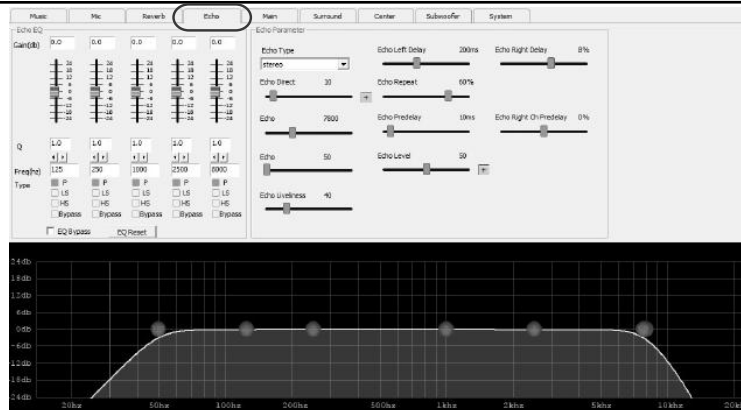


## 麦克风混响功能



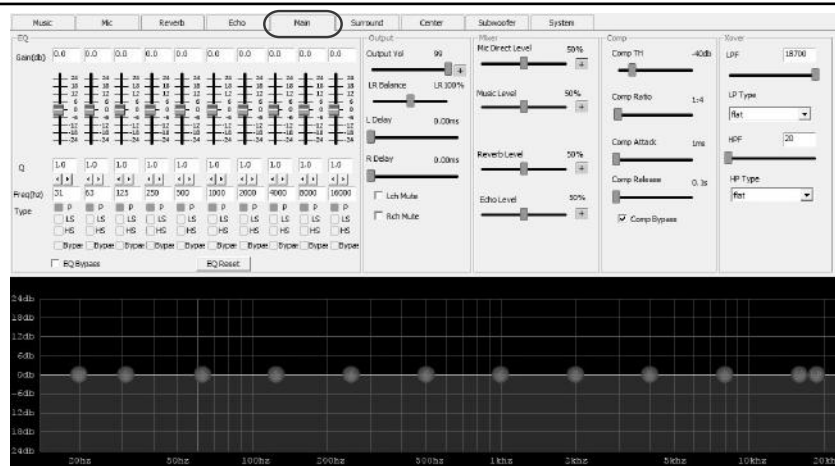
- 1 混响音量 (REV VOL)  
调节混响效果增加到源信号的多少, 数值越大效果越明显 (范围: 0~100, 极性: “+” / “-” )
- 2 混响模型 (REV TYPE)  
(3种模型: HALL/ROOM/PLATE)
- 3 混响衰减时间 (REV DECAY)  
数值越大越能产生较宽阔空间的效果 (范围: 500~5000ms)
- 4 混响预延时 (REV PREDELAY)  
混响效果被听到的延时时间, 数值越大混响效果越晚出现, 会产生较宽敞的效果 (范围: 0~100ms)
- 5 直达电平 (REV DIRECT)  
(范围: 0~100, 极性: “+” / “-” )
- 6 混响现场 (REV LIVELINESS)  
调节混响高频信号晚期回响, 数值越大高频响应越好, 产生更明亮或更清晰的混响, 数值越小高频响应越差, 低频会更显突出, 产生更昏暗或模糊的混响 (范围: 20~99)
- 7 混响高通滤波器 (REV HIGHPASS)  
设置混响高通滤波器的频率, 数值越大越会产生较明亮或清晰的混响效果, 数值越小越会产生较昏暗或模糊的混响效果 (范围: 20~1000Hz)
- 8 混响低通滤波器 (REV LOWPASS)  
设置混响低通滤波器的频率, 数值越大越会产生较单薄的混响效果, 数值越小越会产生较饱满或昏暗的混响效果 (范围: 4000~16000Hz)
- 9 混响参量器均衡器 (REV EQ)  
(频段: 1~5 / 频率: 20~20kHz / 类型: PEQ, LS, HS 增益: -24dB ~ +24dB / 模式: 0.4~99.9 )

## 麦克风回声功能



- 1 回声音量 (ECHO VOL)  
调节回声效果增加到源信号的多少, 数值越大效果越明显 (范围: 0~100, 极性: “+” / “-” )
- 2 回声类型 (ECHO TYPE)  
MONO/STEREO/DUAL: 单声道回声, 左右参数相同  
立体声回声, 左右延时不同其他参数相同  
双回声, 左右所有的参数都独立调节
- 3 回声延时 (ECHO DELAY)  
回声效果中两个回声间距的时间, 数值越大回声间隔越长 (范围: 0~500ms)
- 4 回声重复次数 (ECHO REPEAT)  
回声效果重复的次数多少, 数值越大回声次数越多 (范围: 0~80%)
- 5 回声电平 (ECHO LEVEL)  
(范围: 0~100, 极性: “+” / “-” )
- 6 回声参量器均衡器 (ECHO EQ)  
(频段: 1~5 / 频率: 20~20kHz / 类型: PEQ, LS, HS 增益: -24dB ~ +24dB / 模式: 0.4~99.9 )
- 7 回声预延时 (ECHO PREDELAY)  
直达声到回声效果第一声出现之间延时时间, 数值越大混响效果越晚出现, 于产生较宽敞的效果 (范围: 0~100ms)
- 8 回声高通滤波器 (ECHO HIGHPASS)  
设置回声高通滤波器的频率, 数值越大越会产生较明亮或清晰的回声效果, 数值越小越会产生较昏暗或模糊的回声效果 (范围: 20~1000Hz)
- 9 回声低通滤波器 (ECHO LOWPASS)  
设置回声低通滤波器的频率, 数值越大越会产生较单薄的回声效果, 数值越小越会产生较饱满或昏暗的回声效果 (范围: 4000~16000Hz)
- 10 回声现场 (ECHO LIVELINESS)  
数值越大高频响应越好, 产生更明亮或更清晰的混响, 数值越小高频响应越差, 低频会更显突出, 产生更昏暗或模糊的混响 (范围: 20~99)

## 主输出功能



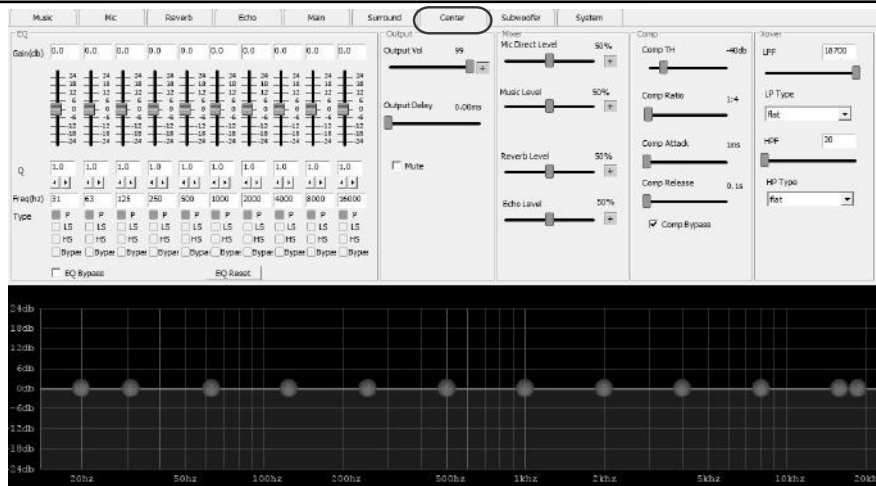
- ① 主输出音量 (MAIN VOL)  
(范围: 0 ~ 99, 极性: “+” / “-”)
- ② 主输出音量平衡 (MAIN VOL BALANCE)  
(范围: L/R0~100%)
- ③ 主输出延时 (MAIN DELAY)  
主输出的左右, 分别调整参数  
(范围: 0~50.00ms, L DELAY/ R DELAY)
- ④ 主输出静音 (MAIN MUTE)  
ON为打开, OFF为关闭. (L MUTE/ R MUTE)
- ⑤ 主输出混合器 (MIXER)  
音乐, 麦克风, 混响, 回声  
(范围: 0~100%, 极性: “+” / “-”)
- ⑥ 主输出压缩限幅器开关 (MAIN COMP SET)  
启动相对电平, 压缩比, ATT启动时间, RELS启动时间  
(-50dB ~ 0dB / 1:2~1:100 / 1~90ms / 0.1~2.5s)
- ⑦ 主输出压缩限幅器开关 (MAIN COMP)  
ON为打开, OFF为关闭
- ⑧ 主输出高通滤波器 (MAIN HIGHPASS)  
(类型: FLAT/BL\_12/BW\_12/BL\_18/BW\_18/BL\_24/BW\_24/LR\_24)  
(频率: 20Hz~20kHz)
- ⑨ 主输出低通滤波器 (MAIN LOWPASS)  
(类型: FLAT/BL\_12/BW\_12/BL\_18/BW\_18/BL\_24/BW\_24/LR\_24)  
(频率: 20kHz~20kHz)
- ⑩ 主输出参量器均衡器 (MAIN EQ)  
(频段: 1~10 / 频率: 20~20kHz / 类型: PEQ, LS, HS  
增益: -24dB ~ +24dB / 带宽: 0.4~99.9)

## 环绕输出功能



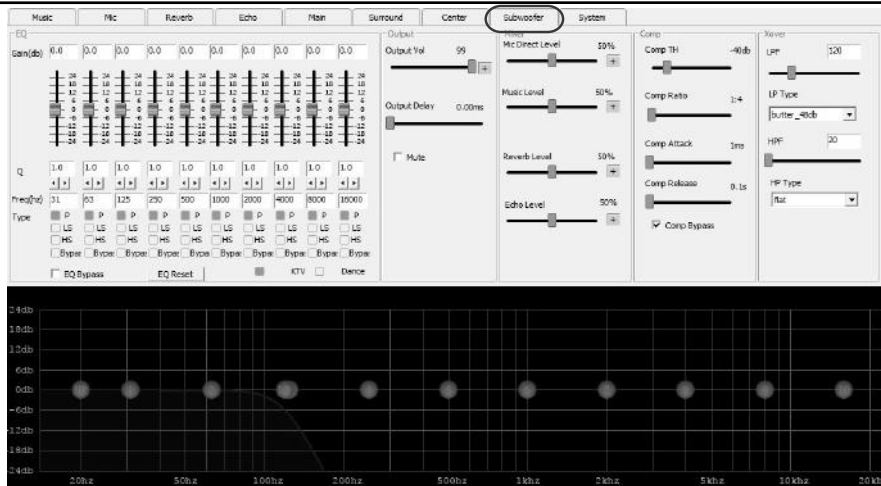
- ① 环绕输出音量 (SUR VOL)  
(范围: 0 ~ 99dB, 极性: “+” / “-”)
- ② 环绕输出音量平衡 (SUR VOL BALANCE)  
(范围: L/R0~100%)
- ③ 环绕输出延时 (SUR DELAY)  
(范围: 0~50ms, L DELAY/ R DELAY)
- ④ 环绕输出静音 (SUR MUTE)  
ON为打开, OFF为关闭. (L MUTE/ R MUTE)
- ⑤ 环绕混合器 (MIXER)  
音乐, 麦克风, 混响, 回声  
(范围: 0~100%, 极性: “+” / “-”)
- ⑥ 环绕输出压缩限幅器设置 (SUR COMP SET)  
启动相对电平, 压缩比, ATT启动时间, RELS启动时间  
(-50dB ~ 0dB / 1:2~1:100 / 1~90ms / 0.1~2.5s)
- ⑦ 环绕输出压缩限幅器开关 (SUR COMP)  
ON为打开, OFF为关闭
- ⑧ 环绕输出高通滤波器 (SUR HIGHPASS)  
(类型: FLAT/BL\_12/BW\_12/BL\_18/BW\_18/BL\_24/BW\_24/LR\_24)  
(频率: 20Hz~20kHz)
- ⑨ 环绕输出低通滤波器 (SUR LOWPASS)  
(类型: FLAT/BL\_12/BW\_12/BL\_18/BW\_18/BL\_24/BW\_24/LR\_24)  
(频率: 20Hz~20kHz)
- ⑩ 环绕输出参量器均衡器 (SUR EQ)  
(频段: 1~10 / 频率: 20~20kHz / 类型: PEQ, LS, HS  
增益: -24dB ~ +24dB / 带宽: 0.4~99.9)

## 中置输出功能



- 1 中置输出音量 (CEN VOL)  
(范围:0 ~ 99, 极性: “+” / “-” )
- 2 中置输出延时 (CEN DELAY)  
(范围:0~50.00ms)
- 3 中置输出静音 (CEN MUTE)  
ON为打开, OFF为关闭.
- 4 中置混合器 (MIXER)  
音乐, 麦克风, 混响, 回声  
(范围:0~100%, 极性: “+” / “-” )
- 5 中置输出压缩限幅器设置 (CEN COMP SET)  
启动相对电平, 压缩比, ATT启动时间, RELS启动时间  
(-50dB ~ 0dB / 1:2~1:100 / 1~90ms / 0.1~2.5s)
- 6 中置输出压缩限幅器开关 (CEN COMP)  
ON为打开, OFF为关闭
- 7 中置输出高通滤波器 (CEN HIGHPASS)  
(类型: FLAT/BL\_12/BW\_12/BL\_18/BW\_18/BL\_24/BW\_24/LR\_24)  
(频率: 20Hz~20kHz)
- 8 中置输出低通滤波器 (CEN LOWPASS)  
(类型: FLAT/BL\_12/BW\_12/BL\_18/BW\_18/BL\_24/BW\_24/LR\_24)  
(频率: 20Hz~20kHz)
- 9 中置输出参量器均衡器 (CEN EQ)  
(频段: 1~10 / 频率: 20~20kHz / 类型: PEQ, LS, HS  
增益: -24dB ~ +24dB / 带宽: 0.4~99.9 )

## 超低音输出功能



- 1 超低音输出音量 (SUB VOL)  
(范围:0 ~ 99, 极性: “+” / “-” )
- 2 超低音输出延时 (SUB DELAY)  
(范围:0~50.00ms)
- 3 超低音输出静音 (SUB MUTE)  
ON为打开, OFF为关闭.
- 4 超低音混合器 (MIXER)  
音乐, 麦克风, 混响, 回声  
(范围:0~100%, 极性: “+” / “-” )
- 5 超低音输出压缩限幅器设置 (SUB COMP SET)  
启动相对电平, 压缩比, ATT启动时间, RELS启动时间  
(-50dB ~ 0dB / 1:2~1:100 / 1~90ms / 0.1~2.5s)
- 6 超低音输出压缩限幅器开关 (SUB COMP)  
ON为打开, OFF为关闭
- 7 超低音输出高通滤波器 (SUB HIGHPASS)  
(类型: FLAT/BL\_12/BW\_12/BL\_18/BW\_18/BL\_24/BW\_24/LR\_24)  
(频率: 20Hz~20kHz)
- 8 超低音输出低通滤波器 (SUB LOWPASS)  
(类型: FLAT/BL\_12/BW\_12/BL\_18/BW\_18/BL\_24/BW\_24/LR\_24)  
(频率: 20Hz~20kHz)
- 9 超低音输出参量器均衡器 (SUB EQ)  
(频段: 1~10 / 频率: 20~20kHz / 类型: PEQ, LS, HS  
增益: -24dB ~ +24dB / 带宽: 0.4~99.9 )



- ① 输出最大音量 (MUSIC/MIC/EFFECT MAX VOL)  
音乐最大音量, 麦克风最大音量, 效果最大音量  
(范围: 20~99)
- ② 录音混音 (RECORD MIXER)  
录音音量, 麦克风直达电平, 音乐电平, 效果电平  
(音量范围: 0~99, 电平范围: 0~100%, 极性: “+” / “-” )
- ③ 超低音热舞模式 (SUB DANCE MODE)  
OFF为关闭模式, AUTO为自动模式, MANUAL为手动模式
- ④ 超低音热舞触发门檻 (SUB DANCE GATE)  
在自动模式时, 当麦克风的信号电平高于触发门檻时,  
超低音进入歌唱模式 (范围: -60~0db)
- ⑤ 超低音热舞转换时长 (SUB DANCE TIME)  
在自动模式时, 在当麦克风的信号电平低于触发门檻  
并一直保持达到设定的时间, 超低音从歌唱模式转  
换到热舞模式 (范围: 1~30S)
- ⑥ 超低音热舞模式音量 (SUB DANCE VOL)  
(范围: 20~99)
- ⑦ 超低音歌唱模式音量 (SUB SING VOL)  
(范围: 20~99)
- ⑧ 模式管理  
U1~U10 里可保存10种设定效果, 可调出使用。  
调试效果的设定保存可以通过PC完成。

## 故障分析处理

如感觉有故障根据以下方法检查。偶尔会有因为操作错误而误认为是故障的现象。  
根据以下方法检查也不能解决的情况下，请直接联系代理经销商

故障症状	原因	解决方法
没有电源	电源线没有插好。	调节适当的音量
电源接通但是没有声音。	<ul style="list-style-type: none"> <li>● 音乐旋钮或麦克旋钮设定在最小的位置。</li> <li>● 输入信号选择不正确。</li> <li>● 输出线与功率放大器的连接不正确。</li> <li>● 功率放大器没有接通电源。</li> </ul>	<ul style="list-style-type: none"> <li>● 请插好电源插头，将旋钮调整到适当位置。</li> <li>● 请选择正确的音源信号。</li> <li>● 修正输出线与功能放大器间的连接。</li> <li>● 功率放大器没有接通电源。</li> </ul>
接通电源、接入音乐信号，但是没有声音。	<ul style="list-style-type: none"> <li>● 音量旋钮设定在最小状态。</li> </ul>	<ul style="list-style-type: none"> <li>● 设定到适当音量的位置。</li> </ul>
有音乐声，但是麦克不出声音。	<ul style="list-style-type: none"> <li>● 麦克的开关`OFF`</li> <li>● 麦克线有划伤损坏。</li> <li>● 麦克的插头没有连接好。</li> </ul>	<ul style="list-style-type: none"> <li>● 打开麦克风开关。</li> <li>● 修理或更换麦克风连接线。</li> <li>● 插好麦克风插头。</li> </ul>
没有混响。	<ul style="list-style-type: none"> <li>● 混响旋钮设定在最小位置。</li> </ul>	<ul style="list-style-type: none"> <li>● 调整混响旋钮到适当位置。</li> </ul>
遥控器不工作。	<ul style="list-style-type: none"> <li>● 功放电源没有接通。</li> <li>● 遥控器没装电池或电力不足。</li> </ul>	<ul style="list-style-type: none"> <li>● 检查功放是否接通电源。</li> <li>● 检查遥控器内是否安装电池或更换新电池。</li> </ul>

## 产品规格

### 音乐输入

BGM, AUX, VOD, Digital (Coax, Optical) ..... 500mV

### 麦克风输入

MIC A/A1, MIC B/B1/B2 ..... 40mV

### 效果器输出

LINE OUT (L/R) ..... 6.0V

CENTET OUT ..... 6.0V

SUB WOOFER OUT ..... 6.0V

REC OUT (L/R) ..... 6.0V

SURROUND OUT (L/R) ..... 6.0V

### 音质控制特性

音乐 ..... 20Hz ~ 20KHz

麦克风 ..... 20Hz ~ 20KHz

音调控制范围 ..... 15 steps

啸叫抑制 (F. B. X) ..... 8 mode

### 电源部分、其他

电源电压 ..... 220V ~ 240/50Hz

消费电力 ..... 25W

外形尺寸 (长×宽×高) ..... 482 X151 X 44mm

净重 ..... 2.8kg

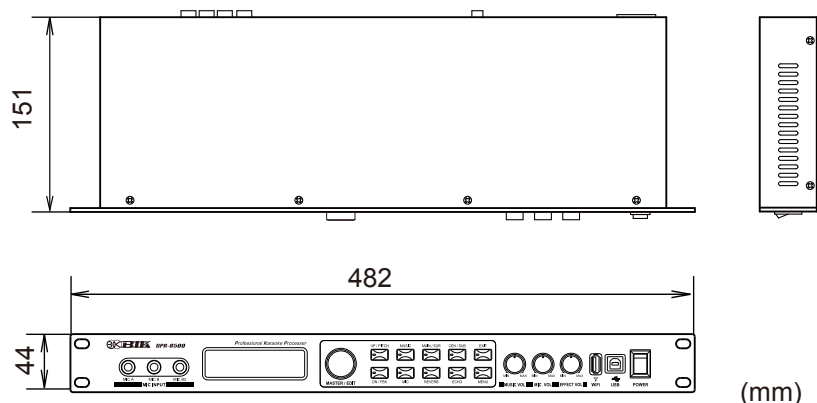
### 附件

使用说明书 ..... 1

遥控器 ..... 1

电源适配器 ..... 1

● 为了改善产品而改变上述规格和外观时，本公司将不予另行通告。



## 功能按键菜单总表

<b>Music</b>		<b>Reverb</b>	<b>Main/Sur</b>	<b>Cen/Sub</b>	<b>Menu</b>
MUSIC INPUT 音乐输入选择		REV VOL 混响音量	MAIN VOL 主输出音量和极性	CEN VOL 中置输出音量和极性	LOAD USER MODE 调用用户参数
INPUT GAIN 音乐输入预增益		REV TYPE 混响模型	MAIN VOL BALANCE 主输出音量平衡	CEN MUTE 中置输出静音	LOAD FACTORY MODE 调用出厂参数
MUSIC HIGHPASS 音乐高通滤波器		REV DECAY 混响衰减时间	MAIN MUTE 主输出静音	MUSIC TO CEN 音乐到中置输出混音比	SAVE USER MODE 存储用户参数
MUSIC LOWPASS 音乐低通滤波器		REV PREDELAY 混响预延时	MUSIC TO MAIN 音乐到主输出混音比	MIC DIR TO CEN 直达到中置输出混音比	POWER ON MODE 开机模式
MUSIC EQ 音乐均衡器开关		REV LIVELINESS 混响现场	MIC DIR TO MAIN 直达到主输出混音比	REV TO CEN 混响到中置输出混音比	MUSIC MODE 音乐模式
MUSEQ01 F:25 音乐均衡器		REV HIGHPASS 混响高通滤波器	REV TO MAIN 混响到主输出混音比	ECHO TO CEN 回声到中置输出混音比	SUB DANCE MODE 超低音热舞模式
MUSIC PITCH 音乐变调		REV LOWPASS 混响低通	ECHO TO MAIN 回声到主输出混音比	CEN DELAY 中置输出延时	SUB DANCE GATE 超低音热舞触发门檻
		REVERB EQ 混响均衡器开关	MAIN DELAY 主输出延时	CEN EQ 中置输出均衡器开关	SUB DANCE TIME 超低音热舞转换时长
		REVEQ01 F:125 混响均衡器	MAIN EQ 主输出均衡器开关	CENEQ01 F:31 中置输出均衡器	SUB DANCE VOL 超低音热舞音量
			MA_EQ01 F:31 主输出均衡器	CEN HIGHPASS 中置输出高通	SUB SING VOL 超低音唱歌音量
			MAIN HIGHPASS 主输出高通	CEN LOWPASS 中置输出低通	REC VOL 录音输出音量和极性
			MAIN LOWPASS 主输出低通	CEN COMP 中置输出压限器开关	MUSIC TO REC 音乐到录音输出混音比
			MAIN COMP 主输出压限器开关	CEN COMP SET 中置输出压限器设置	MICDIR TO REC 直达到录音输出混音比
			MAIN COMP SET 主输出压限器设置	SUB VOL 超低音输出音量和极性	MIC EFF TO REC 效果到录音输出混音比
			SUR VOL 环绕输出音量和极性	SUB MUTE 超低音输出静音	MUSIC MAX VOL 音乐最大音量
			SUR VOL BALANCE 环绕输出音量平衡	MUSIC TO SUB 音乐到低音混音比	MIC MAX VOL 麦克风最大音量
			SUR MUTE 环绕输出静音	MIC DIR TO SUB 直达到低音混音比	EFFECT MAX VOL 效果最大音量
			MUSIC TO SUR 音乐到环绕混音比	REV TO BU 混响到超T	Firmware Version 软件版本
			MIC_D TO SUR 直达到环绕混音比	ECHO TO SUB 回声到超低音混音比	
			REV TO SUR 混响到环绕混音比	SUB DELAY 超低音输出延时	
			ECHO TO SUR 回声到环绕混音比	SUB EQ 超低音输出均衡器开关	
			SUR DELAY 环绕输出延时	SUB_EQ01 F31 超低音输出均衡器	
			SUR EQ 环绕输出均衡器开关	SUB HIGHPASS 超低音输出高通	
			SUR_EQ01 F:31 环绕输出均衡器	SUB LOWPASS 超低音输出低通	
			SUR LOWPASS 环绕输出低通	SUB COMP 超低音输出压限器开关	
			SUR HIGHPASS 环绕输出高通	SUB COMP SET 超低音压限器设置	
			SUR COMP 环绕输出压限器开关		
			SUR COMP SET 环绕输出压限器设置		
<b>Mic</b>	<b>Echo</b>				
MIC FBX LEVEL 麦克风反馈抑制	ECHO TYPE 回声类型				
MIC NOISE GATE 麦克风噪声门	ECHO VOL 回声音量				
MIC EXCITER 麦克风激励器	ECHO DELAY 回声延时				
MIC HIGHPASS 麦克风高通	ECHO R DELAY 回声右延时比				
MIC LOWPASS 麦克风低通	ECHO REPEAT 回声重复次数				
MIC1 VOL 麦克风 A 输入音量	ECHO PREDELAY 回声预延时				
MIC1 /2 EQ LINK 麦克风 A/EQ 关联	ECHO HIGHPASS 回声高通滤波器				
MIC1 EQ 麦克风 A 均衡开关	ECHO LOWPASS 回声低通滤波器				
MIC1EQ01 F:40 麦克风 A 均衡器	ECHO EQ 回声均衡器开关				
MIC2 VOL 麦克风 B 输入音量	ECHOEQ01 F:125 回声均衡器				
MIC2 EQ 麦克风 B 均衡开关					
MIC2EQ01 F:40 麦克风 B 均衡器					





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