

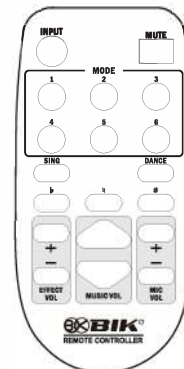
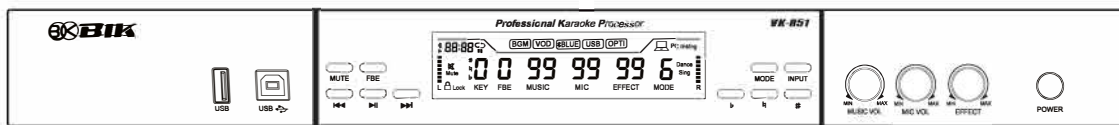


OWNER'S MANUAL

使用说明书

VK-R51

Professional Karaoke Processor
卡拉OK效果处理器



Thank you for purchasing our Professional Karaoke Processor.
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。

CONTENTS

CAUTION FOR SAFETY	2	PC SOFTWARE	5	PC SOFTWARE	
FUNCTION AND NAME	2	PC SOFTWARE WINDOW	5	OPERATION INSTRUCTION	6
CONNECTION	4			ANY TROUBLES ?	11
				SPECIFICATIONS	11

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.

 WARNING	This shows: Using this product with disregarding cautions might call for death or injury.
 CAUTION	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 AC100V - AC250V, otherwise it may cause 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 rack.
- Be careful for AC plug, or outlet not to get dust or to get wet, or it may cause a fire.
- Do not use near facilities that emit strong radio waves.

CAUTION

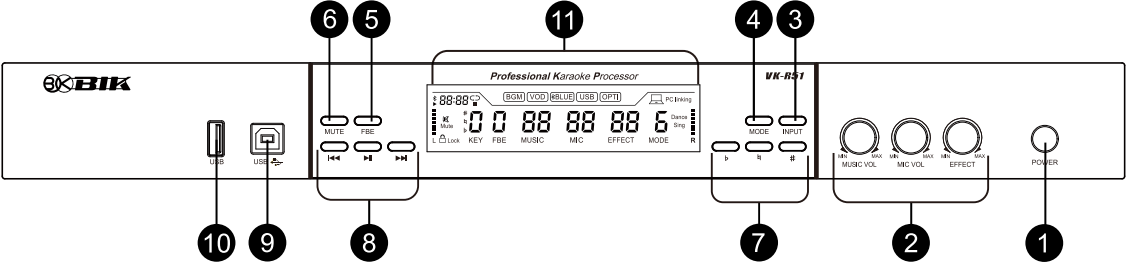
- When this product is not used for a longer period, power supply plug should be taken out of outlet.
- In case the thunder is generated near-by, take power supply plug out of outlet right away, or it may cause a fire or an electric shock.
- If this product needs to be moved, switch off first, and then 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

- Professional KARAOKE Processor with high-performance 32-bit floating-point DSP.
- Features include wide frequency band, high dynamic range, and low distortion. Powerful functions, simple operation, and easy to use.
- Input section: 3 microphone inputs, 2 music analog inputs, optical port, Bluetooth, and USB. Adjustable music input volume, Bluetooth IO level, and RCA IO level. Adjustable music high-pass filter, 10-band parametric equalizer, and dynamic compressor functions (threshold, attack time, release time, compression ratio, on/off).
- Independent A(MIC-1) and B(MIC-2/MIC-3) microphones, with optional AB link adjustment. 16-band parametric equalizer, level and polarity, 5 levels of anti-howling strength, high and low pass filters, microphone noise gate function, and microphone dynamic compression function.
- Professional singing reverb with 5-band parametric equalizer, level and polarity, direct level and polarity, high and low pass filters, reverb pre-delay, and reverb duration. Can be select Three reverb models.
- Professional singing echo with 5-band parametric equalizer, level and polarity, direct level and polarity, high and low pass filters, echo pre-delay, echo delay, echo repeat, echo right channel delay, echo right channel pre-delay, and echo TAP1/2 volume.
- 6 output channels, with optional left-right link adjustment, 7-band parametric equalizer, high and low pass filters, compressor limiter, output volume and polarity, delay, and mute.
- Stereo recording output.
- Music and 6-channel outputs with sing and dance modes (automatic/manual adjustment available).
- Can call and save 10 modes, with individually settable startup mode.
- Driver-free USB interface controlled through PC software.
- Wide voltage low power design, AC100V-AC250V 50Hz/60Hz.

FRONT PANEL



- 1

Power Switch
- 2

MUSIC / MIC / EFFECT Volume
Adjustment of Music, Mic and Effect volume.
- 3

Input Select Button
To select the input in the order of BGM, VOD, BLUE, USB, OPTI.
- 4

Mode Select Button
Press the switch and select.
After selecting, press MUSIC VOL.
- 5

FBE Select Button
To select the FBE type (0 - 4).
- 6

Mute Button
Sound dies by pressing it,
and go back to original by re-pressing it.
- 7

Key Control Button
For adjusting musical tone, up or down.
b : To make it down
: To make it up
b : Make it to Original.
- 8

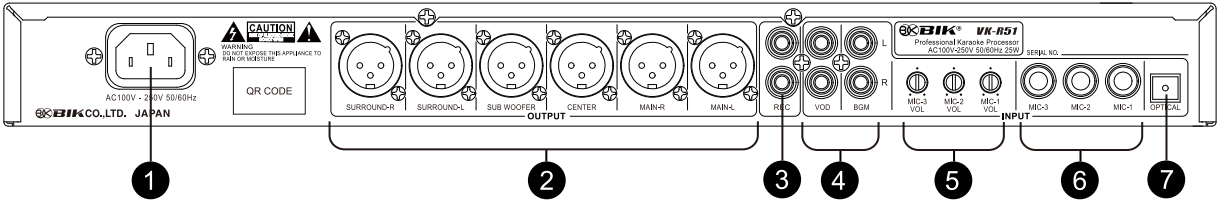
REVERSE, PLAY / PAUSE / FORWARD Button
◀◀ : Reverse ▶▶ : Play, Pause ▶▶▶ : Forward
- 9

USB Port (PC Connect)
Connect the computer with the PC software to control the device.
- 10

USB Port
Connect the USB memory.
Playback of music on USB memory.
- 11

LCD Display
Show all the operation menu.

REAR PANEL



- 1

Power Cord Socket
Power input AC 100~250V, 50/60Hz.
- 2

Audio Output
Balanced output (MAIN-L and MAIN-R),
Unbalanced output (CENTER, SUBWOOFER, SURROUND-L and SURROUND-R), connect with power Amplifier system.
- 3

Record Output
Connect with record device, music and microphone synchronous recording.
- 4

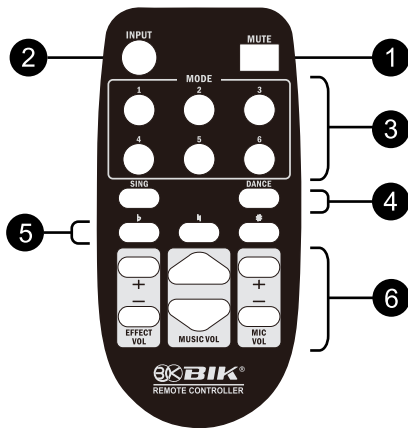
Audio Input
RCA input (VOD, BGM).
- 5

Mic Volume
To control “MIC-1, MIC-2, MIC-3” input gain.
- 6

Mic Input
You can connect up to three microphones.
- 7

OPTICAL Input
Connect the optical input.

Remote Control



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

- 2 Input Changing Button**
BGM, VOD, BLUE, USB, OPTI to be changed in order.

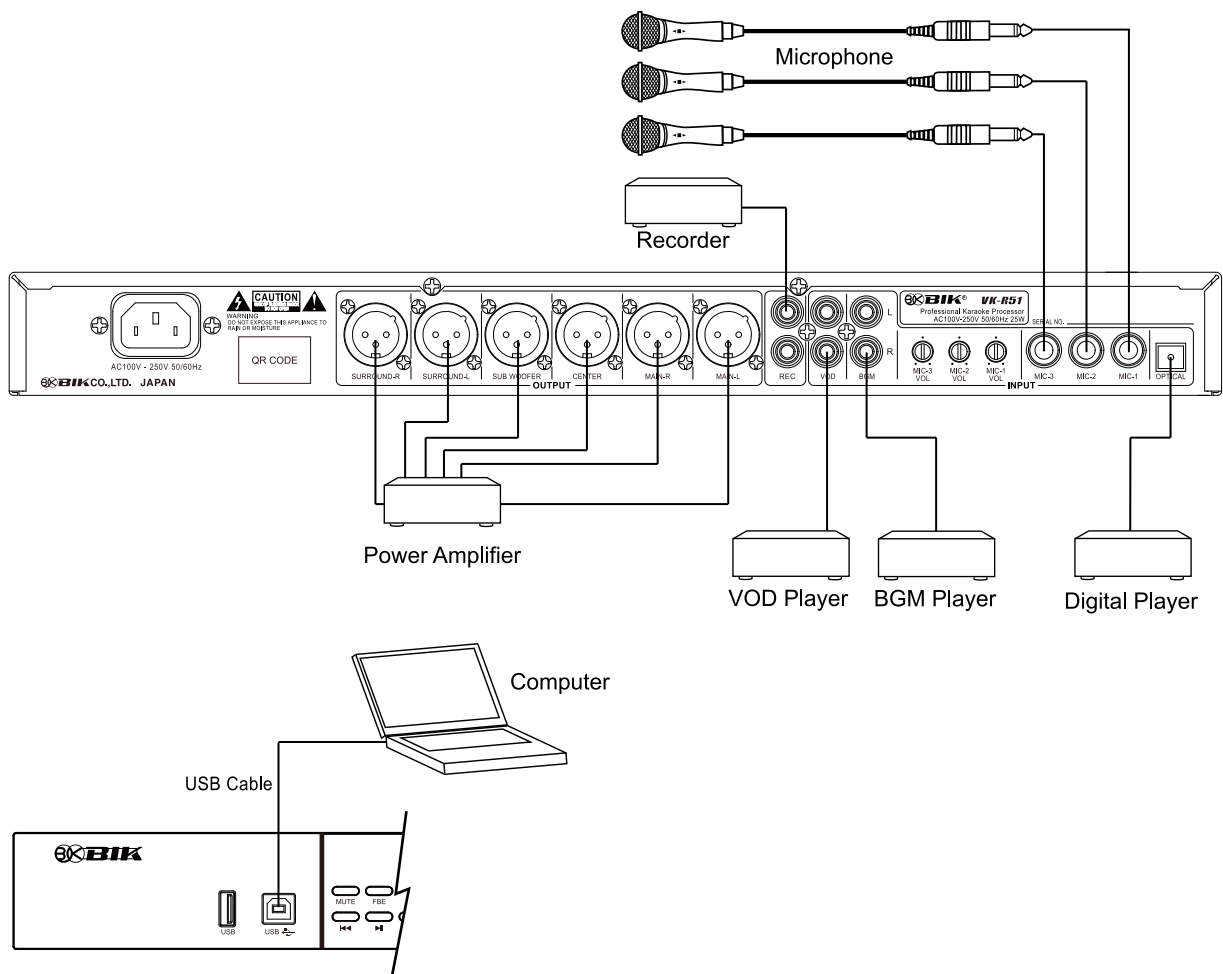
- 3 User Preset Mode Switch Button**
User preset mode, you can recall any mode to use.

- 4 Mode change Button**
"SING" or "DANCE"

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

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

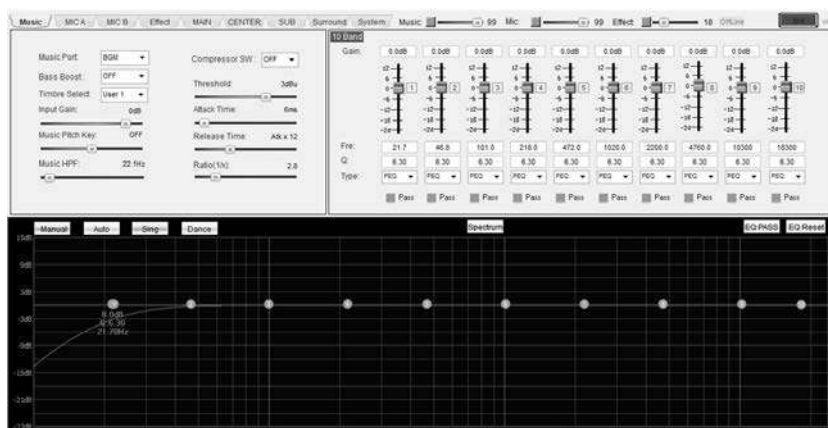
CONNECTION



PC SOFTWARE

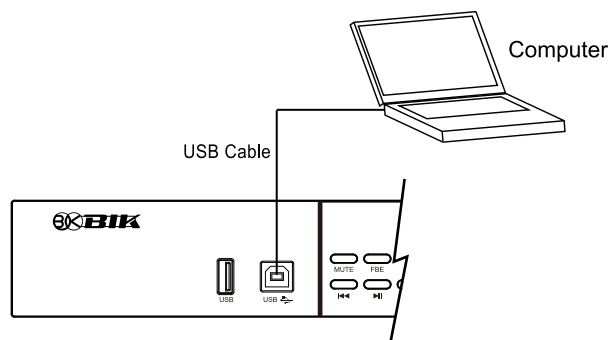
Please download “VK-R51 PC SOFTWARE” from BIK home page.

※ URL : <https://www.bik-audio.com/product/vk-r51/>



1. How to connect USB cable?

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



PC SOFTWARE WINDOW

1 Link button

One key type link, green means connect, red means disconnect.

2 Master volumes

Adjust Music, Mic, and Effect volume.

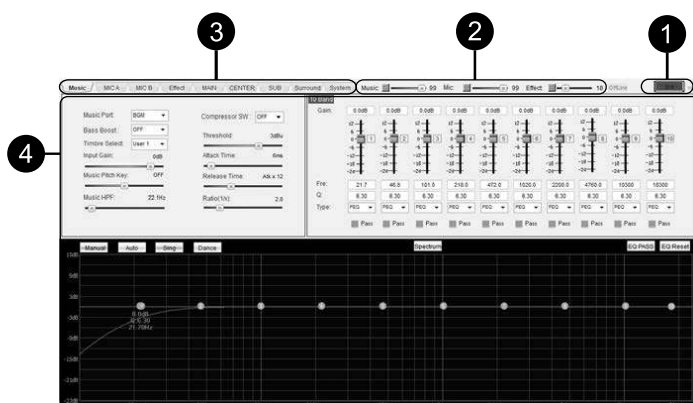
3 Menu

Set the needed channel parameter, and system parameter.

4 Setting screen

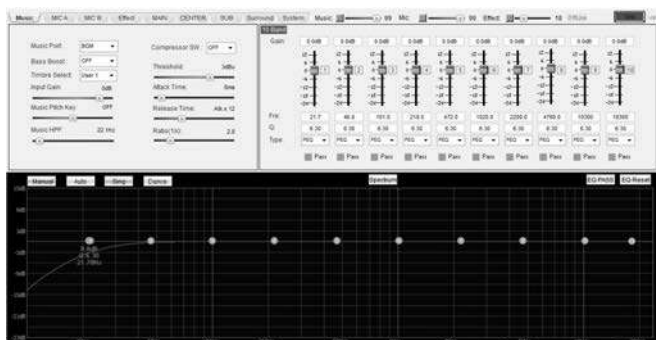
Set the needed channel parameter

- **“Manual”, “Auto”, “Sing”, “Dance”**
Select to your preference.
- **Spectrum**
Displays spectrum.
- **EQ PASS**
Does not through the set EQ.
- **EQ Reset**
Resets settings.



PC SOFTWARE OPERATION INSTRUCTION

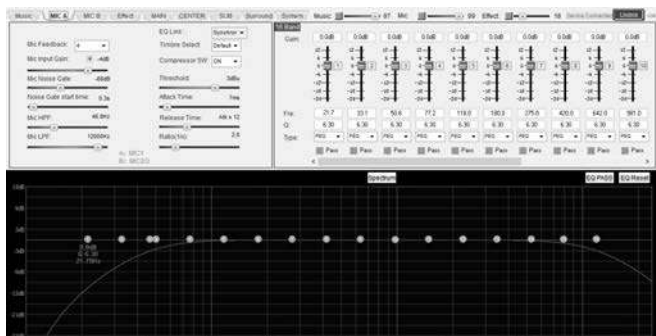
MUSIC MENU



- 1 Music Port**
Audio input can be chosen from "BGM", "VOD", "BLUE", "USB", "OPTI".
- 2 Bass Boost**
Choose from "ON", "OFF".
- 3 Timbre Select**
Choose from "Default", "User 1", "User 2".
- 4 Input Gain**
Adjust Gain of VOD, BGM, BLUE, USB and OPTICAL.
(OFF, -39dB ~ 6dB, Step:1dB)

- 5 Music Pitch Key**
Adjust music tone control.
(b1~b7, OFF, #1~#7)
- 6 Music HPF**
Adjust hi-pass filter frequency and style.
(OFF, 20.1~309Hz)
- 7 Compressor SW**
Choose from "ON" or "OFF".
- 8 Threshold**
Adjust threshold. (-25dBu ~ 14dBu)
- 9 Attack Time**
Attack time. (1ms ~ 100ms)
- 10 Release Time**
Adjust release time. (ATK x 2 ~ ATK x 32)
- 11 Ratio(1/x)**
Adjust ratio. (1.0 ~ 100)
- 12 MUSIC EQ**
Adjust music EQ. (10 BAND)

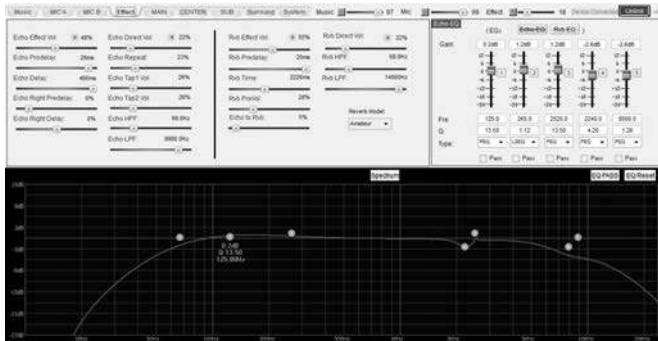
MIC A / MIC B



- 1 Mic Input Gain**
Adjust microphone level and polarity.
(OFF, -39dB ~ 6dB, "+" or "-")
- 2 Mic Noise Gate**
Adjust microphone noise gate level.
(OFF, -79dB ~ -50dB)
- 3 Noise Gate start time**
Adjust microphone noise gate start time.
(0.1s ~ 10.0s)
- 4 Mic HPF**
Adjust microphone high-pass filter.
(OFF, 20.1Hz ~ 309.0Hz)
- 5 Mic LPT**
Adjust microphone low-pass filter.
(19.7Hz ~ 20200Hz, OFF)
- 6 Compressor SW**
Choose from "ON" or "OFF".
- 7 Threshold**
Adjust threshold. (-25dBu ~ 14dBu)
- 8 Attack Time**
Attack time. (1ms ~ 100ms)
- 9 Release Time**
Adjust release time. (ATK x 2 ~ ATK x 32)
- 10 Ratio(1/x)**
Adjust ratio. (1.0 ~ 100)
- 11 EQ Link**
Choose from "Independent" or "Synchronization".
 - Choose "Independent".
"MIC A" and "MIC B" are not common settings.
 - Choose "Synchronization".
"MIC A" and "MIC B" are common settings.
- 12 Feedback**
Choose from "OFF", "1", "2", "3", "4"
- 13 Timbre Select**
Choose from "Default", "User 1", "User 2".
- 14 MIC EQ**
Adjust microphone EQ. (16 BAND)

※MIC A : Used for "MIC-1".
※MIC B : Used for "MIC-2" and "MIC-3".

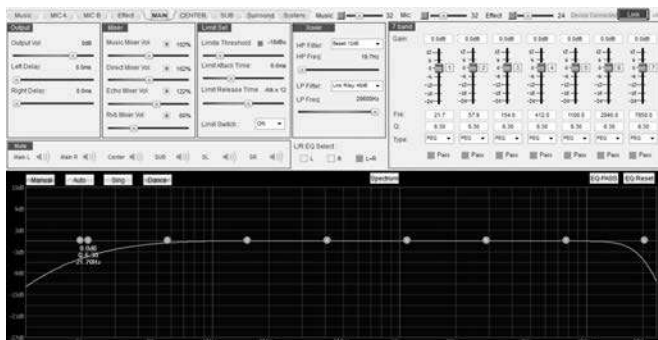
Effect MENU



- 1 **Echo Effect Vol**
Adjust echo level and polarity. (0 ~ 100%, “+” or “-”)
- 2 **Echo Predelay**
Adjust echo predelay. (0 ~ 30ms)
- 3 **Echo Delay**
Adjust echo delay. (0 ~ 460ms)
- 4 **Echo Right Predelay**
Adjust echo right predelay. (0 ~ 50%)
- 5 **Echo Right Delay**
Adjust echo right delay. (-50 ~ 50%)
- 6 **Echo Direct Vol**
Adjust echo direct volume and polarity.
(0 ~ 100%, “+” or “-”)
- 7 **Echo Repeat**
Adjust echo repeat. (0 ~ 80%)
- 8 **Echo Tap1 Vol**
Adjust echo tap1 volume. (0 ~ 100%)

- 9 **Echo Tap2 Vol**
Adjust echo tap2 volume. (0 ~ 100%)
- 10 **Echo HPF**
Adjust high pass filter. (OFF, 20.1 ~ 2040.0Hz)
- 11 **Echo LPF**
Adjust low pass filter. (19.7 ~ 20200Hz, OFF)
- 12 **Rev Effect Vol**
Adjust reverb effect vol and polarity. (0 ~ 100%, “+” or “-”)
- 13 **Rvb Predelay**
Adjust reverb predelay. (0 ~ 20ms)
- 14 **Rvb Time**
Adjust reverb time. (0 ~ 5035ms)
- 15 **Rvb PreVol**
Adjust reverb vol. (0 ~ 100%)
- 16 **Echo to Rvb**
Adjust echo to reverb. (0 ~ 100%)
- 17 **Rvb direct Vol**
Adjust reverb direct and polarity. (0 ~ 100%, “+” or “-”)
- 18 **Rvb HPF**
Adjust reverb high pass filter. (OFF, 20.1 ~ 2040Hz)
- 19 **Rvb LPF**
Adjust reverb low pass filter. (19.7 ~ 20200Hz, OFF)
- 20 **Reverb Model**
Choose from “Profession”, “Public”, and “Amateur”.
- 21 **Effect EQ**
Adjust Effect EQ. (5 BAND)
Echo and reverb can be changed and set.

MAIN MENU

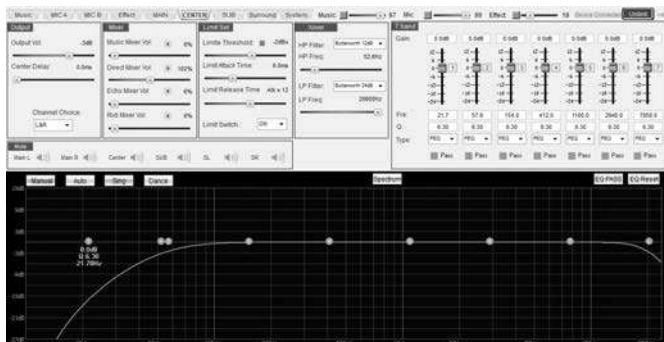


- 1 **Output Vol**
Adjust Output level. (OFF, -39 ~ 12dB)
- 2 **Left Delay**
Adjust left delay. (0 ~ 25ms)
- 3 **Right Delay**
Adjust right delay. (0 ~ 25ms)
- 4 **Music Mixer Vol**
Adjust music mixer volume and polarity.
(0 ~ 200%, “+” or “-”)
- 5 **Direct Mixer Vol**
Adjust direct mixer volume and polarity.
(0 ~ 200%, “+” or “-”)
- 6 **Echo Mixer Vol**
Adjust echo mixer volume and polarity.
(0 ~ 200%, “+” or “-”)
- 7 **Rvb Mixer Vol**
Adjust reverb mixer volume and polarity.
(0 ~ 200%, “+” or “-”)
- 8 **Limit Threshold**
Lights up red when the limiter is activated.
Adjust limit threshold. (-25 ~ 14dBu)
- 9 **Limit Attack Time**
Adjust limit attack time. (1 ~ 90ms)
- 10 **Limit Release Time**
Adjust limit release time. (Atk x 2 ~ Atk x 32)

MAIN MENU

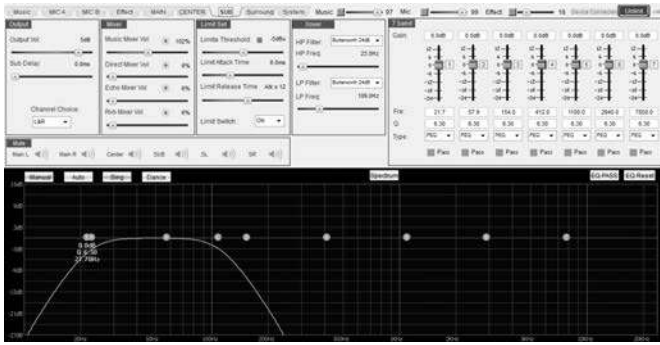
- 11 Limit Switch**
Choose from “ON” or “OFF”.
- 12 HP Filter**
Choose from 8 types.
OFF, Besell 12dB, Butterworth 12dB, Link Riley 12dB,
Besell 24dB, Butterworth 24dB, Link Riley 24dB,
Link Riley 36dB, Link Riley 48dB
- 13 HP Freq**
Adjust high pass frequency. (19.7 ~ 20600Hz)
- 14 LP Filter**
Choose from 8 types.
OFF, Besell 12dB, Butterworth 12dB, Link Riley 12dB,
Besell 24dB, Butterworth 24dB, Link Riley 24dB,
Link Riley 36dB, Link Riley 48dB
- 15 LP Freq**
Adjust low-pass frequency. (19.7 ~ 20600Hz)
- 16 MAIN EQ**
Adjust Main EQ. (7 BAND)
- 17 ”L”, ”R”, ”L+R” switch**
You can set the EQ independently for the left and right.

CENTER MENU



- 1 Output Vol**
Adjust Output level. (OFF, -39 ~ 12dB)
- 2 Center Delay**
Adjust center delay. (0.0 ~ 25.0ms)
- 3 Channel Choice**
Choose from 3 types.(L&R, L, R)
- 4 Music Mixer Vol**
Adjust music mixer volume and polarity.
(0 ~ 200%, “+” or “-”)
- 5 Direct Mixer Vol**
Adjust direct mixer volume and polarity.
(0 ~ 200%, “+” or “-”)
- 6 Echo Mixer Vol**
Adjust echo mixer volume and polarity.
(0 ~ 200%, “+” or “-”)
- 7 Rvb Mixer Vol**
Adjust reverb mixer volume and polarity.
(0 ~ 200%, “+” or “-”)
- 8 Limit Threshold**
Lights up red when the limiter is activated.
Adjust limit threshold. (-25 ~ 14dBu)
- 9 Limit Attack Time**
Adjust limit attack time. (1 ~ 90ms)
- 10 Limit Release Time**
Adjust limit release time. (Atk x 2 ~ Atk x 32)
- 11 Limit Switch**
Choose from “ON” or “OFF”.
- 12 HP Filter**
Choose from 8 types.
OFF, Besell 12dB, Butterworth 12dB, Link Riley 12dB,
Besell 24dB, Butterworth 24dB, Link Riley 24dB,
Link Riley 36dB, Link Riley 48dB
- 13 HP Freq**
Adjust high pass frequency. (19.7 ~ 20600Hz)
- 14 LP Filter**
Choose from 8 types.
OFF, Besell 12dB, Butterworth 12dB, Link Riley 12dB,
Besell 24dB, Butterworth 24dB, Link Riley 24dB,
Link Riley 36dB, Link Riley 48dB
- 15 LP Freq**
Adjust low pass frequency. (19.7 ~ 20600Hz)
- 16 CENTER EQ**
Adjust Center EQ. (7 BAND)

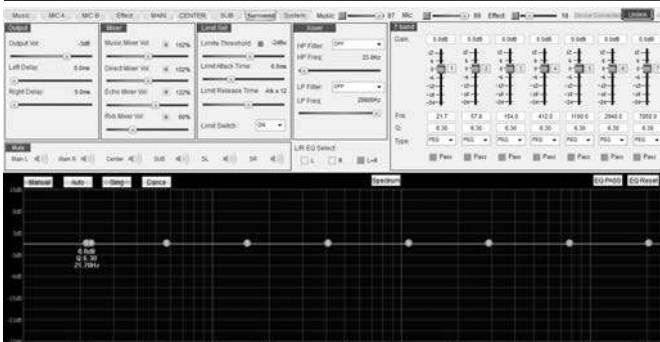
SUBWOOFER MENU



- 1 Output Vol**
Adjust Output level. (OFF, -39 ~ 12dB)
- 2 Sub Delay**
Adjust subwoofer delay. (0.0 ~ 25.0ms)
- 3 Channel Choice**
Choose from 3 types.(L&R, L, R)
- 4 Music Mixer Vol**
Adjust music mixer volume and polarity.
(0 ~ 200%, “+” or “-”)
- 5 Direct Mixer Vol**
Adjust direct mixer volume and polarity.
(0 ~ 200%, “+” or “-”)
- 6 Echo Mixer Vol**
Adjust echo mixer volume and polarity.
(0 ~ 200%, “+” or “-”)

- 7 Rvb Mixer Vol**
Adjust rvb mixer volume and polarity.
(0 ~ 200%, “+” or “-”)
- 8 Limit Threshold**
Lights up red when the limiter is activated.
Adjust limit threshold. (-25 ~ 14dBu)
- 9 Limit Attack Time**
Adjust limit attack time. (1 ~ 90ms)
- 10 Limit Release Time**
Adjust limit release time. (Atk x 2 ~ Atk x 32)
- 11 Limit Switch**
Choose from “ON” or “OFF”.
- 12 HP Filter**
Choose from 8 types.
OFF, Besell 12dB, Butterworth 12dB, Link Riley 12dB,
Besell 24dB, Butterworth 24dB, Link Riley 24dB,
Link Riley 36dB, Link Riley 48dB
- 13 HP Freq**
Adjust high pass frequency. (19.7 ~ 20600Hz)
- 14 LP Filter**
Choose from 8 types.
OFF, Besell 12dB, Butterworth 12dB, Link Riley 12dB,
Besell 24dB, Butterworth 24dB, Link Riley 24dB,
Link Riley 36dB, Link Riley 48dB
- 15 LP Freq**
Adjust low pass frequency. (19.7 ~ 20600Hz)
- 16 SUBWOOFER EQ**
Adjust Subwoofer EQ. (7 BAND)

SURROUND MENU



- 1 Output Vol**
Adjust Output level. (OFF, -39 ~ 12dB)
- 2 Left Delay**
Adjust left delay. (0.0 ~ 25.0ms)
- 3 Right Delay**
Adjust right delay. (0.0 ~ 25.0ms)
- 4 Music Mixer Vol**
Adjust music mixer volume and polarity.
(0 ~ 200%, “+” or “-”)
- 5 Direct Mixer Vol**
Adjust direct mixer volume and polarity.
(0 ~ 200%, “+” or “-”)

- 6 Echo Mixer Vol**
Adjust echo mixer volume and polarity.
(0 ~ 200%, “+” or “-”)
- 7 Rvb Mixer Vol**
Adjust Reverb mixer volume and polarity.
(0 ~ 200%, “+” or “-”)
- 8 Limit Threshold**
Lights up red when the limiter is activated.
Adjust limit threshold. (-25 ~ 14dBu)
- 9 Limit Attack Time**
Adjust limit attack time. (1 ~ 90ms)
- 10 Limit Release Time**
Adjust limit release time. (Atk x 2 ~ Atk x 32)
- 11 Limit Switch**
Choose from “ON” or “OFF”.
- 12 HP Filter**
Choose from 8 types.
OFF, Besell 12dB, Butterworth 12dB, Link Riley 12dB,
Besell 24dB, Butterworth 24dB, Link Riley 24dB,
Link Riley 36dB, Link Riley 48dB
- 13 HP Freq**
Adjust high pass frequency. (19.7 ~ 20600Hz)

14 LP Filter

Choose from 8 types.

OFF, Besell 12dB, Butterworth 12dB, Link Riley 12dB, Besell 24dB, Butterworth 24dB, Link Riley 24dB, Link Riley 36dB, Link Riley 48dB

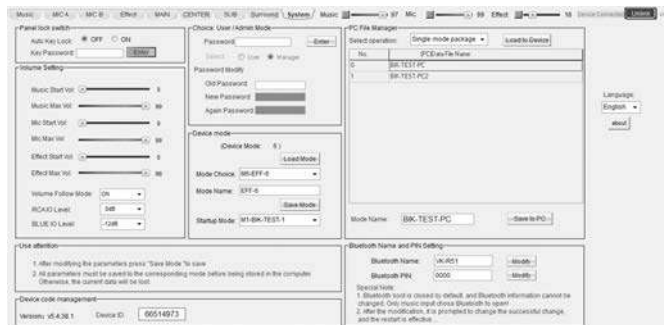
15 LP Freq

Adjust low-pass frequency. (19.7 ~ 20600Hz)

16 SURROUND EQ

Adjust Subwoofer EQ. (7 BAND)
L and R can be set independently.

SYSTEM MENU



1 Panel lock switch

Prevents settings from being changed.

- Select "User" from "choice:User / Admin Mode".
- Select "ON" for Auto Key Lock.
- Enter your Key Password.
Default Password : "1234"

After locking, you have 2 seconds to change the volume on the VK-R51.

- Press and hold the "EFFECT" volume.
- Adjust "MUSIC", "MIC", and "EFFECT" volume.

2 Volume Setting

Adjust start volume and max volume of Music, Mic, and Effect. (0 ~ 99)

- Volume Follow Mode
Choose from "ON" or "OFF".
You can set the volume when the power is turned on.
- RCA IO Level
Choose from "0" or "+6"dB.
- BLUE IO Level
Choose from "-18", "-12", "-6", "0", "+6"dB.

3 Choice: User / Admin Mode

Enter the "Password" and press the "Enter" button, then select "User or Manager".
"User" mode can not perform a save operation.
The initial value of the system password is "123456".

System Password Modify.

Enter the "Old Password", enter the "New Password", and enter the "Again Password".

4 Device mode

Select one from "Mode Choice" and press the "Load Mode" button to set the saved data.
Select one from "Mode Choice", and name a "Mode Name", and press the "Save Mode" button to save the data.
Select the "Device mode" at startup from "Startup Mode".

5 PC File Manager

Select operation and push "load to device" button.
Select "mode name", and save to "PC button".

6 Bluetooth Name and PIN Setting

- Device name : VK-R51
- Default PIN number : "0000"

7 Language

Choose from "English" or "中文".

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.

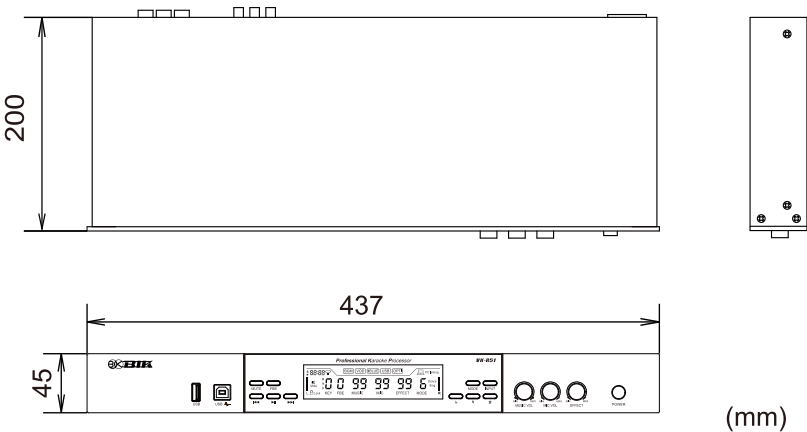
Trouble	Cause	Remedy
No power is applied to the unit.	● The power cable is not connected.	● Connect the power cable to AC outlet.
Power on, but no sound.	● Music volume control or Mic volume control may be set to minimum position. ● Music signal choice is incorrect. ● The output cords is not connected correctly. ● The power amplifier switch is not ON.	● Adjust for proper sound position. ● Choose correct music signal input. ● Connect the output cord correctly. ● Turn ON the power amplifier.
No sound at beginning of the music when switched on.	● Output level of audio component is set to minimum.	● Adjust it to suitable position.
No microphone sound but playback the music sound.	● Microphone switch is to "OFF". ● The microphone cord broken. ● Microphone plug is not connected.	● Set it to "ON". ● Repair or replace it. ● Connect it correctly.
Without effect.	● Effect volume is minimum.	● Adjust the Effect volume.
Can not use remote control.	● The power amplifier switch is not ON. ● Remote control batteries is not in. ● Batteries ran down.	● Turn ON the power amplifier. ● Check batteries. ● Change batteries to new ones.

SPECIFICATIONS

Frequency Response 20Hz - 20kHz
Total Harmonic Distortion(THD) 0.05% (max)
S/N Ratio 100 dB (min)
Cross Talk 65 dB (min)
Music Input (L / R)
Sensitivity 140 mV
Input impedance 50 kΩ
Microphone Input
(MIC 1, 2, 3)
Sensitivity 30 mV
Input impedance 50 kΩ
Output
MAIN OUT (L/R) 3.2 V
CENTER OUT 3.2 V
SUB-WOOFER OUT..... 3.2 V
SURROUND OUT (L/R)..... 3.2 V
REC OUT (L/R) 1.6 V
Key Control 15 steps

Power supply, Others
Power Voltage 100V ~ 250V 50/60Hz
Power Consumption..... 25 W
Dimensions (W x H x D) 437 x 45 x 200 mm
Weight 2.2 kg
Accessories
Owner's manual 1
Remote Control..... 1
USB Cable 1
Power Cable 1
Mounting Bracket 2

● Design and specifications subject to change without notice.



目录

安全注意事项12

产品特点12

连接方法14

电脑软件15

软件界面15

操作方法16

故障分析处理21

产品规格21

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。

 警告	警告 无视或误用会有造成人身事故的可能性。
 注意	注意 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（AC100V - AC250V）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

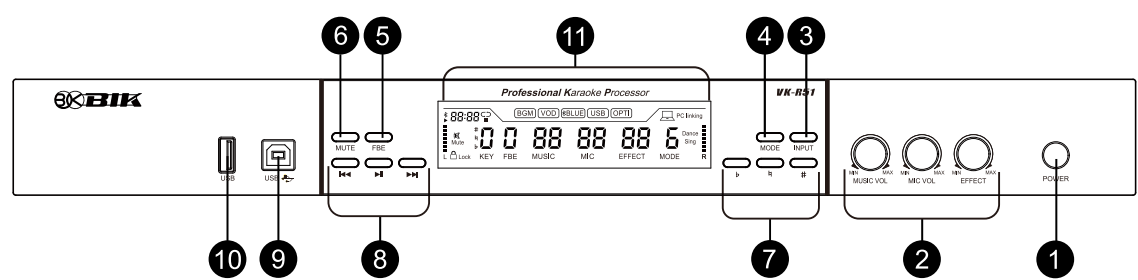
- 旅行等长时间不使用时、为了安全请务必拔下插头。
- 如近距离内有雷电现象时、请拔下电源插头，由于雷电原因，会引起火灾、触电、故障等现象。
- 移动时首先关闭电源开关、然后务必拔下电源插头。
- 请勿放置在灶台、加湿器及有油烟、雾气的地方。会引起火灾、触电等现象。
- 请勿放置在不安稳的桌上、或倾斜的地方。会容易掉落、翻倒而造成损坏、损伤等现象。
- 请勿放置在紧闭车窗的汽车内、或阳光直射及高温的地方。以免造成零部件的损坏、而引起火灾。

产品特点

功能

- 采用高性能32bit浮点DSP的专业KTV前置效果器。
- 具有频带宽、动态大、失真少等特点。功能强大、操作简单、容易使用。
- 输入部分：3路话筒、2路音乐模拟、光纤口、蓝牙、USB功能。
音乐输入音量、蓝牙端口电平、RCA端口电平可调。音乐高通滤波器、音乐参量均衡10段、动态压缩器功能（启动阈值/启动时间/释放时间/压缩比例/开关）可调。
- 独立前后两组A/B麦克风，AB联调可选。16段参量均衡、电平和极性、5段防啸叫强度可选、高低通滤波器、麦克风噪声门功能、麦克风动态压缩功能。
- 专业演唱的混响，5段参量均衡、电平和极性、直达电平和极性、高低通滤波器、混响预延时、混响时长。三种混响模型可选。
- 专业演唱的回声，5段参量均衡、电平和极性、直达电平和极性、高低通滤波器回声预延时、回声延时、回声重复、回声右声道延时、回声右声道预延时、回声TAP1/2音量。
- 6个输出通道，左右联调可选，7段参量均衡、高低通滤波器、压缩限幅器、输出音量和极性、延时、静音。
- 立体声录音输出。
- 音乐输出和6个通道输出的唱歌和热舞模式（自动/手动可调）
- 可以调用和保存10种模式，可单独设置开机模式。
- 免驱动USB接口，实时通过PC软件控制全部参数。
- 宽电压低功耗设计，AC100V-AC250V 50Hz/60Hz

前面板



- 1 电源开关

2 音乐音量旋钮, 麦克风音量旋钮, 效果音量旋钮

3 音源输入切换
按此按键的时候会依据BGM, VOD, 蓝牙, USB, 光纤。

4 效果模式选择
按下切换模式, 再按音乐音量旋钮确定。

5 FBE
啸叫抑制键, 设置啸叫抑制的强度。

6 静音按键
按一次即变为静音状态, 再按一次返回原状态。
- 7 音乐升降调按键
b : 降调 # : 升调 4 : 恢复原状态。

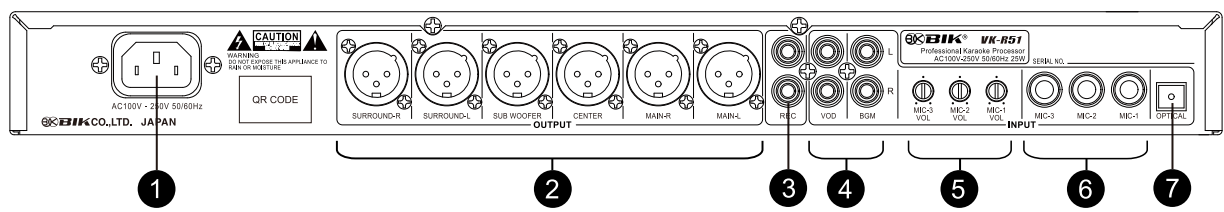
8 上一首歌曲: ◀◀
暂停/播放 : ▶▶
下一首歌曲: ▶▶

9 USB接口
连接电脑软件控制设备。

10 USB接口
连接U盘播放音乐和录音。

11 显示屏
用于显示各种参数调节的信息。

后面板



- 1 电源线接口
电源电压 AC 100~250V, 50/60Hz。

2 输出接口
平衡输出 (MIAN-L和MIAN-R)
单端输出 (CENTER, SUBWOOFER, SURROUND-L和SURROUND-R)
连接功率放大器。

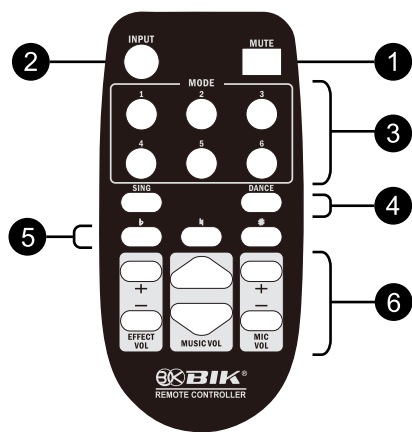
3 立体声录音输出接口
连接录音设备, 收录音乐和麦克风声音。
- 4 音频信号输入接口
RCA输入(VOD,BGM)

5 麦克风音量旋钮
控制MIC-1,MIC-2,MIC-3的输入音量。

6 麦克风输入接口
连接三组麦克风。

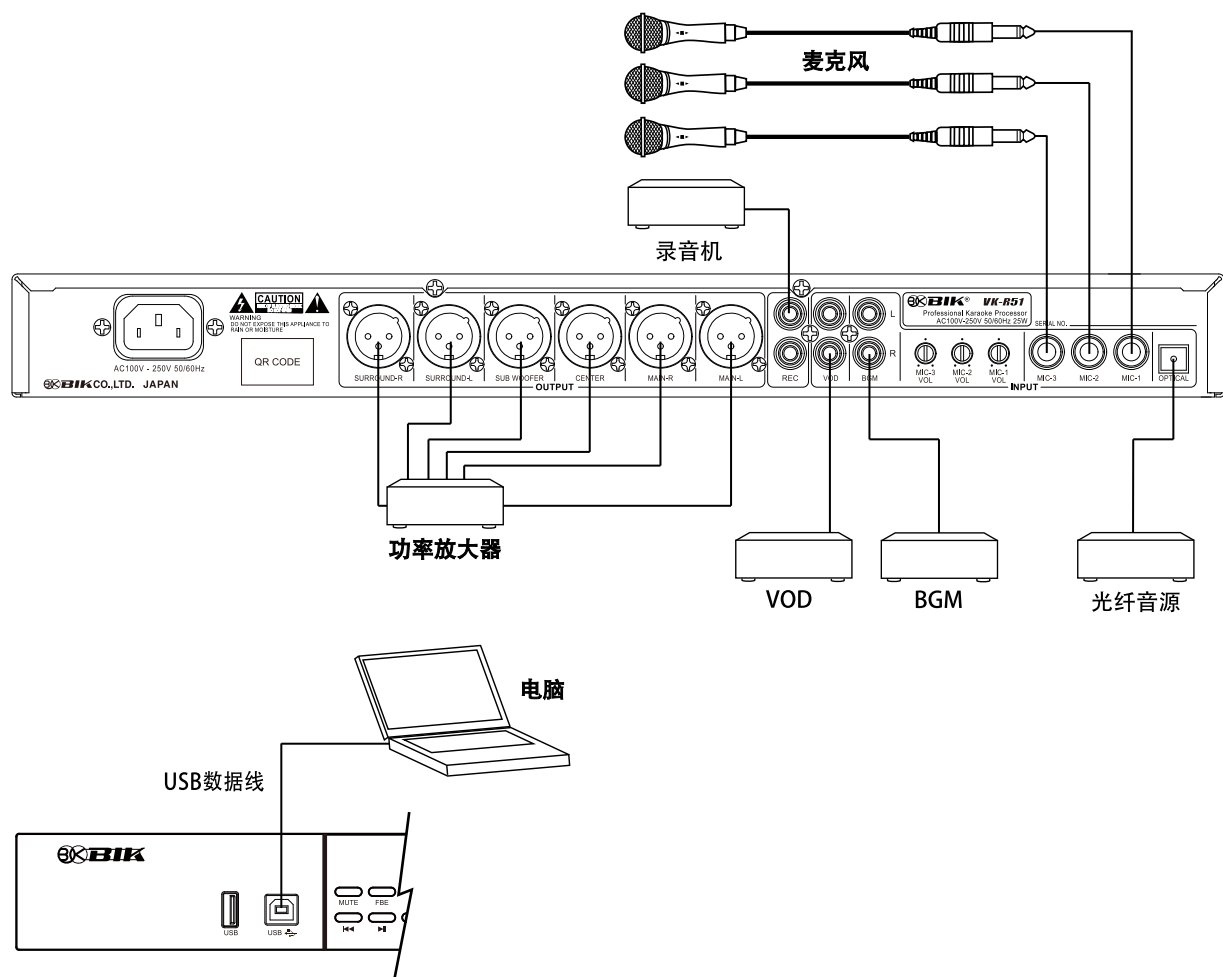
7 音频信号输入接口 (光纤)

遥控器



- 1 静音
按一次即变为静音状态，再按一次返回原状态。
- 2 音源信号输入切换
按此按键的时候会依据BGM, VOD, 蓝牙, USB, 光纤。
- 3 六种效果调用。
- 4 唱歌/热舞模式选择。
- 5 音乐升降调
b:降调 # :升调 0:恢复原状态。
- 6 音量控制键
“+”、“-”键调节音乐，效果，麦克风的音量。

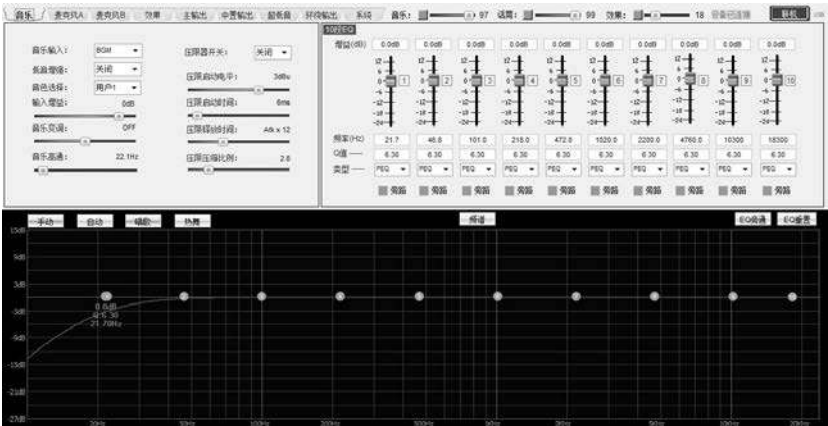
连接方法



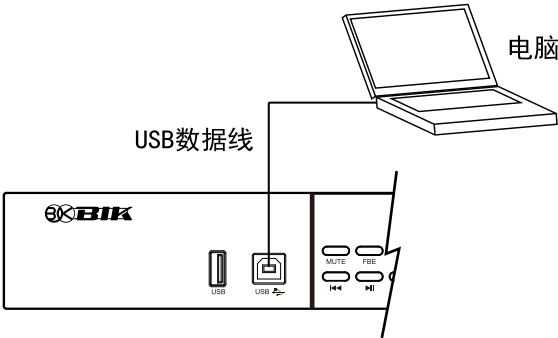
电脑软件

VK-R51 的调试软件请在BIK官方网站下载。

※ URL: <https://www.bik-audio.com/product/vk-r51/>

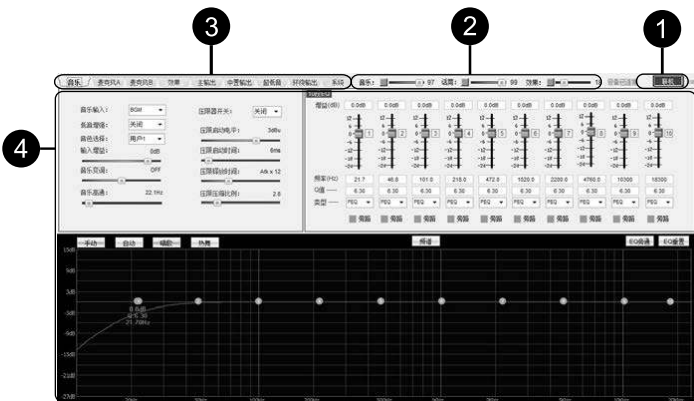


- 1. 用USB数据线连接效果器与电脑
用USB数据线连接电脑和前级效果器，
开机前级效果器，打开电脑调试软件，
调试软件会自动建立连接。



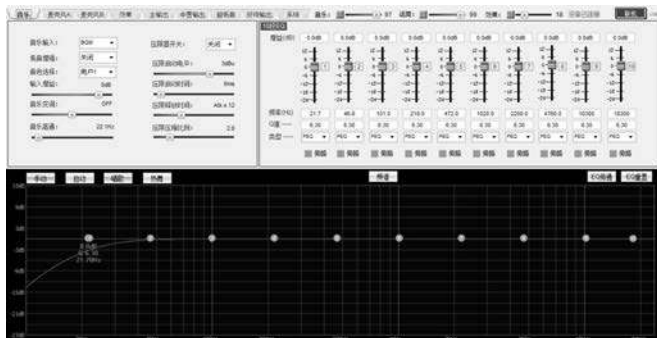
软件界面

- 1 连接
用鼠标点击连接前级效果器。绿色表示已连接，
红色表示未连接。
- 2 音量控制
音乐音量,话筒音量,效果音量。
- 3 选项菜单
设置各通道和系统的参数。
- 4 设置界面
 - “手动”，“自动”，“唱歌”，“热舞”
选择偏好设置
 - 频谱
显示频率曲线
 - EQ 旁通
不通过设置的EQ
 - EQ 重置
重置设置过的EQ



操作方法

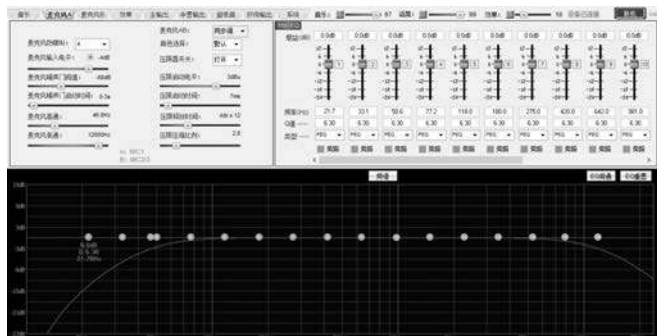
音乐界面



- 1 音乐输入
(BGM, VOD, 蓝牙, USB, 光纤)
- 2 低音增强
选择“打开”或“关闭”。
- 3 音色选择
选择“默认”，“用户1”或“用户2”。
- 4 输入增益
可分别对BGM,VOD,BLUE,USB,OPTICAL预调整
(范围:OFF, -39~6dB, 步进:1dB)

- 5 音乐变调
调整音乐音调控制。
(b1~b7, OFF, #1~#7)
- 6 音乐高通
(频率:OFF, 20.1~309Hz)
- 7 压限器开关
选择“打开”或者“关闭”。
- 8 压限启动电平
设置压限启动电平(-25dBu ~ 14dBu)
- 9 压限启动时间
设置启动时间(1ms ~ 100ms)
- 10 压限释放时间
设置释放时间(ATK x 2 ~ ATK x 32)
- 11 压限压缩比例(1/x)
设置压缩比例(1.0 ~ 100)
- 12 音乐 EQ
设置音乐EQ (10段)

麦克风 A / B界面

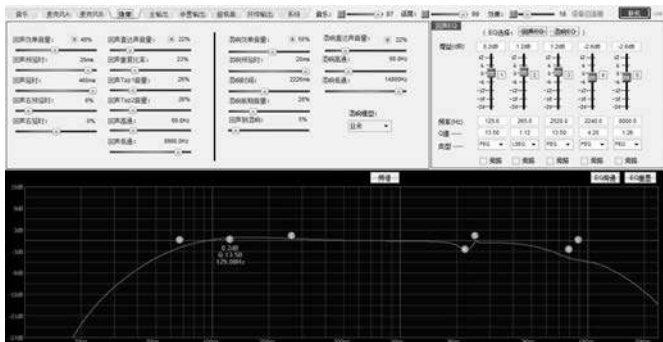


- 1 麦克风输入电平
调整麦克风电平和极性。
(OFF, -39dB ~ 6dB, “+” 或 “-”)
- 2 麦克风噪声门
调整麦克风噪声门。
(OFF, -79dB ~ -50dB)
- 3 麦克风噪声门启动时间
调整麦克风噪声门启动时间。
(0.1s ~ 10.0s)
- 4 麦克风高通
(OFF, 20.1Hz ~ 309.0Hz)
- 5 麦克风低通
(19.7Hz ~ 20200Hz, OFF)
- 6 压限器开关。
选择“打开”或者“关闭”。
- 7 压限启动电平
调整压限启动电平 (-25dBu ~ 14dBu)
- 8 压限启动时间
调整压限启动时间(1ms ~ 100ms)
- 9 压限释放时间
调整压限释放时间(ATK x 2 ~ ATK x 32)
- 10 压限压缩比例(1/x)
调整压限压缩比例(1.0 ~ 100)
- 11 麦克风AB
选择“独立”或“同步”。
 - 选择“独立”。
“麦克风A”和“麦克风B”可以分别设置。
 - 选择“同步”。
“麦克风A”和“麦克风B”是同步设置。
- 12 防啸叫
选择防啸叫的强度 (“OFF”, “1”, “2”, “3”, “4”)
- 13 音色选择
可以选择“默认”，“用户1”，“用户2”。
- 14 麦克风 EQ
调整麦克风的 EQ(16段)

※MIC A: 用来调整“MIC-1”。

※MIC B: 用来调整“MIC-2”和“MIC-3”。

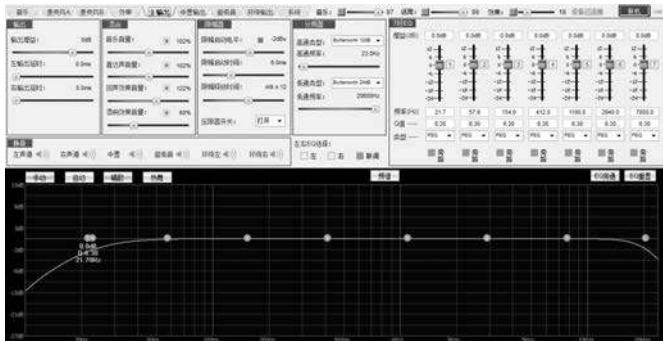
效果界面



- 1 回声效果音量
调整回声电平和极性(0 ~ 100%, “+” 或 “-”)
- 2 回声预延时
调整回声预延时(0 ~ 30ms)
- 3 回声延时
调整回声延时(0 ~ 460ms)
- 4 回声右预延时
调整回声右预延时(0 ~ 50%)
- 5 回声右延时
调整回声右延时 (-50 ~ 50%)
- 6 回声直达音量
调整回声直达音量和极性。
(0 ~ 100%, “+” 或 “-”)
- 7 回声重复比率
调整回声重复比率 (0 ~ 80%)
- 8 回声 Tap1 音量
调整回声tap1音量 (0 ~ 100%)

- 9 回声Tap2音量
调整回声Tap2音量 (0 ~ 100%)
- 10 回声高通
调整高通滤波器(OFF, 20.1 ~ 2040.0Hz)
- 11 回声低通
调整低通滤波器(19.7 ~ 20200Hz, OFF)
- 12 混响效果音量
(范围:0~100, “+” 或 “-”)
- 13 混响预延时
调整混响预延时 (0 ~ 20ms)
- 14 混响时间
(范围:0 ~ 5035ms)
- 15 混响前期音量
调整混响前期音量 (0 ~ 100%)
- 16 回声到混响
调整回声到混响 (0 ~ 100%)
- 17 混响直达声音量
调整混响直达声音量和极性 (0 ~ 100%, “+” 或 “-”)
- 18 混响高通
调整混响高通滤波器 (OFF, 20.1 ~ 2040Hz)
- 19 混响低通
调整混响低通滤波器(19.7 ~ 20200Hz, OFF)
- 20 混响模型
(3种模型:专业, 大众, 业余)
- 21 回声/混响EQ
调整回声/混响EQ. (5段)
回声和混响可以更改和设置。

主输出界面



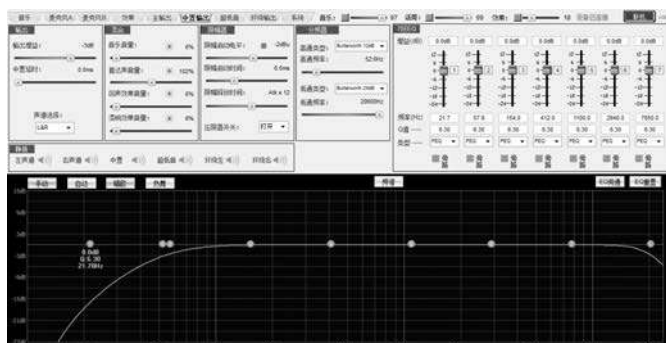
- 1 输出增益
调整输出增益(OFF, -39 ~ 12dB)
- 2 左输出延时
调整左输出延时 (0 ~ 25ms)
- 3 右输出延时
调整右输出延时 (0 ~ 25ms)

- 4 音乐音量
调整音乐混音器的音量和极性。
(0 ~ 200%, “+” 或 “-”)
- 5 直达声音量
调整直达声混音器的音量和极性。
(0 ~ 200%, “+” 或 “-”)
- 6 回声效果音量
调整回声混音的音量和极性。
(0 ~ 200%, “+” 或 “-”)
- 7 混响效果音量
调整混响混音的音量和极性。
(0 ~ 200%, “+” 或 “-”)
- 8 限幅启动电平
限制器激活时呈红色亮起。
调整限制阈值 (-25 ~ 14dBu)
- 9 限幅启动时间
调整限幅启动时间(1 ~ 90ms)
- 10 限幅释放时间
调整限幅释放时间 (Atk x 2 ~ Atk x 32)

主输出界面

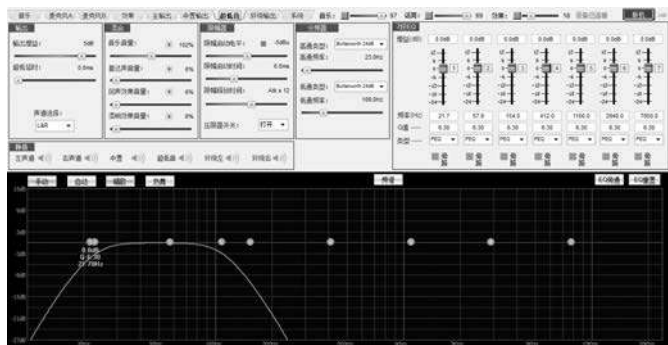
- 11 压限器开关
选择“打开”或者“关闭”。
- 12 高通类型
从8种类型中选择。
OFF, Besell 12dB, Butterworth 12dB, Link Riley 12dB, Besell 24dB, Butterworth 24dB, Link Riley 24dB, Link Riley 36dB, Link Riley 48dB
- 13 高通频率
调整高通频率 (19.7 ~ 20600Hz)
- 14 低通类型
从8种类型中选择。
OFF, Besell 12dB, Butterworth 12dB, Link Riley 12dB, Besell 24dB, Butterworth 24dB, Link Riley 24dB, Link Riley 36dB, Link Riley 48dB
- 15 低通频率
调整低通频率(19.7 ~ 20600Hz)
- 16 主输出EQ
调整主输出 EQ (7段)
- 17 “左”, “右”, “联调” 开关
可以独立设置左、右声道。

中置输出界面



- 1 输出增益
调整输出增益 (OFF, -39 ~ 12dB)
- 2 中置延时
调整中置延时 (0.0 ~ 25.0ms)
- 3 声道选择
从三种类型中选择(L&R, L, R)
- 4 混合音乐音量
调整音乐混音的音量和极性。
(0 ~ 200%, “+” 或 “-”)
- 5 直达声音量
调整直达声混音的音量和极性。
(0 ~ 200%, “+” 或 “-”)
- 6 回声效果音量
调整回声混音的音量和极性。
(0 ~ 200%, “+” 或 “-”)
- 7 混响效果音量
调整混响混音的音量和极性。
(0 ~ 200%, “+” 或 “-”)
- 8 限幅启动电平
限制器激活时呈红色亮起。
调整限制阈值 (-25 ~ 14dBu)
- 9 限幅启动时间
调整限制启动时间 (1 ~ 90ms)
- 10 限幅释放时间
调整限幅释放时间 (Atk x 2 ~ Atk x 32)
- 11 压限器开关
选择“打开”或者“关闭”。
- 12 高通类型
从 8 种类型中选择。
OFF, Besell 12dB, Butterworth 12dB, Link Riley 12dB, Besell 24dB, Butterworth 24dB, Link Riley 24dB, Link Riley 36dB, Link Riley 48dB
- 13 高通频率
调整高通频率 (19.7 ~ 20600Hz)
- 14 低通类型
从8种类型中选择。
OFF, Besell 12dB, Butterworth 12dB, Link Riley 12dB, Besell 24dB, Butterworth 24dB, Link Riley 24dB, Link Riley 36dB, Link Riley 48dB
- 15 低通频率
调整低通频率(19.7 ~ 20600Hz)
- 16 中置EQ
调整中置 EQ (7段)

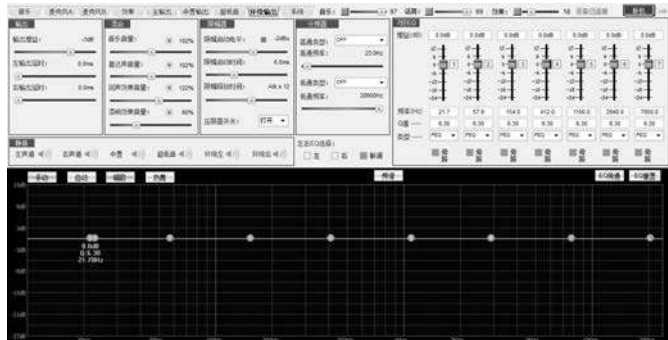
超低音界面



- 1 输出增益
调整输出增益 (OFF, -39 ~ 12dB)
- 2 超低延时
调整中置延时 (0.0 ~ 25.0ms)
- 3 声道选择
从三种类型中选择(L&R, L, R)
- 4 混合音乐音量
调整音乐混音的音量和极性。
(0 ~ 200%, “+” 或 “-”)
- 5 直达声音量
调整直达声混音的音量和极性。
(0 ~ 200%, “+” 或 “-”)
- 6 回声效果音量
调整回声混音的音量和极性。
(0 ~ 200%, “+” 或 “-”)

- 7 混响效果音量
调整混响混音的音量和极性。
(0 ~ 200%, “+” 或 “-”)
- 8 限幅启动电平
限制器激活时呈红色亮起。
调整限制阈值 (-25 ~ 14dBu)
- 9 限幅启动时间
调整限制启动时间 (1 ~ 90ms)
- 10 限幅释放时间
调整限幅释放时间(Atk x 2 ~ Atk x 32)
- 11 压限器开关
选择 “打开” 或者 “关闭” 。
- 12 高通类型
从 8 种类型中选择。
OFF, Besell 12dB, Butterworth 12dB, Link Riley 12dB,
Besell 24dB, Butterworth 24dB, Link Riley 24dB,
Link Riley 36dB, Link Riley 48dB
- 13 高通频率
调整高通频率 (19.7 ~ 20600Hz)
- 14 低通类型
从8种类型中选择。
OFF, Besell 12dB, Butterworth 12dB, Link Riley 12dB,
Besell 24dB, Butterworth 24dB, Link Riley 24dB,
Link Riley 36dB, Link Riley 48dB
- 15 低通频率
调整低通频率(19.7 ~ 20600Hz)
- 16 超低音EQ
调整超低音 EQ(7段)

环绕输出界面



- 1 输出增益
调整输出增益 (OFF, -39 ~ 12dB)
- 2 左输出延时
调整左输出延时 (0.0 ~ 25.0ms)
- 3 右输出延时
调整右输出延时 (0.0 ~ 25.0ms)
- 4 音乐混合音量
调整音乐混音的音量和极性。
(0 ~ 200%, “+” 或 “-”)
- 5 直达声音量
调整直达声混音的音量和极性。
(0 ~ 200%, “+” 或 “-”)

- 6 回声效果音量
调整回声混合的音量和极性。
(0 ~ 200%, “+” 或 “-”)
- 7 混响效果音量
调整混响混音的音量和极性。
(0 ~ 200%, “+” 或 “-”)
- 8 限幅启动电平
限制器激活时呈红色亮起。
调整限制阈值。 (-25 ~ 14dBu)
- 9 限幅启动时间
调整限幅启动时间 (1 ~ 90ms)
- 10 限幅释放时间
调整限幅释放时间 (Atk x 2 ~ Atk x 32)
- 11 压限器开关
选择 “打开” 或 “关闭” 。
- 12 高通类型
从 8 种类型中选择。
OFF, Besell 12dB, Butterworth 12dB, Link Riley 12dB,
Besell 24dB, Butterworth 24dB, Link Riley 24dB,
Link Riley 36dB, Link Riley 48dB
- 13 高通频率
调整高通频率(19.7 ~ 20600Hz)

- 14 低通类型
从8种类型中选择。
OFF, Besell 12dB, Butterworth 12dB, Link Riley 12dB, Besell 24dB, Butterworth 24dB, Link Riley 24dB, Link Riley 36dB, Link Riley 48dB

- 15 低通频率
调整低通频率 (19.7 ~ 20600Hz)
- 16 环绕输出EQ
调整环绕输出EQ (7 段)
L和R可以独立设置/联调。

系统界面



- 1 面板锁定开关
开启后可以防止 VK-R51 的设置被更改
- 通过“选择：用户/管理模式”选择“用户”。
 - 将锁定开关选择为“开启”。
 - 输入您的密钥密码。
默认密码：“1234”

锁定后，可以通过

- 长按机器面板“EFFECT”音量旋钮。
- 调整“音乐”、“麦克风”和“效果”的音量。

- 2 音量设定
调节音乐、麦克风和效果的开始音量和最大音量(0 ~ 99)

- 音量跟随模式
选择“ON”或者“OFF”
可以设置开机时的音量。
- RCA端口电平
选择“0”或者“+6”dB。
- 蓝牙端口电平
选择“-18”，“-12”，“-6”，“0”，“+6”dB。

- 3 选择：用户/管理模式
输入“密码”并按
“回车”键，然后选择“用户或管理员”。
“用户”模式无法执行保存操作。
系统密码初始值为“123456”。

密码修改。

输入“旧密码”，输入“新密码”，再次“新密码确定”。

- 4 设备模式
从“设备模式”中选择一项，然后按“调用模式”调用出保存的数据。
调整参数后，命名“模式名称”，然后按“保存模式”按钮保存数据。
选择“开机模式”中的一个作为机器开启时的首选模式。

- 5 电脑存储模式
选择电脑上的模式并按“上传到设备”按钮，来调用电脑上的模式。
自定义“备份文件名称”，按“存储到电脑”把模式保存到电脑。

- 6 蓝牙名称与密码管理
更改蓝牙名称与密码
默认密码：“0000”。

- 7 系统语言
选择“English” or “中文”。

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

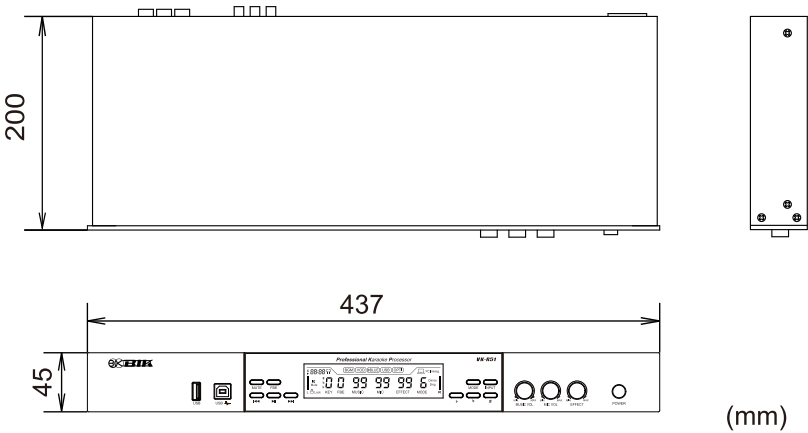
故障症状	原因	解决方法
没有电源	●电源线没有插好。	●插好电源线。
电源接通但是没有声音。	● 音乐旋钮或麦克旋钮设定在最小的位置。 ● 输入信号选择不正确。 ● 输出线与功率放大器的连接不正确。 ● 功率放大器没有接通电源。	● 将旋钮调整到适当位置。 ● 请选择正确的音源信号。 ● 修正输出线与功能放大器间的连接。 ● 接通功率放大器的电源。
接通电源、接入音乐信号，但是没有声音。	● 音量旋钮设定在最小状态。	● 设定到适当音量的位置。
有音乐声，但是麦克不出声音。	● 麦克的开关没有打开。 ● 麦克线有划伤损坏。 ● 麦克的插头没有连接好。	● 打开麦克风开关。 ● 修理或更换麦克风连接线。 ● 插好麦克风插头。
没有声音效果。	● 效果旋钮设定在最小位置。	● 调整效果旋钮到适当位置。
遥控器不工作。	● 功放电源没有接通。 ● 遥控器没装电池。 ● 遥控器电池电力不足。	● 检查功放是否接通电源。 ● 检查遥控器内是否安装电池。 ● 更换新电池。

产品规格

频率响应	20Hz - 20kHz
总谐波失真	0.05%(max)
信噪比	100dB(min)
串扰	65dB(min)
音乐输入	
灵敏度	140mV
阻抗	50kΩ
麦克风输入	
MIC 1, 2, 3灵敏度	30mV
阻抗	50kΩ
效果器输出	
主输出 (左/右)	3.2V
中置输出	3.2V
超低音输出	3.2V
环绕输出 (左/右)	3.2V
录音输出 (左/右)	1.6V
音调控制范围	15 段

电源部分、其他	
电源电压	100V ~ 250V 50/60Hz
消费电力	25W
外形尺寸 (长×高×深)	437 X 45 X 200mm
净重	2.2kg
附件	
使用说明书	1
遥控器	1
数据线	1
电源线	1
固定用金属架	2

● 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。



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