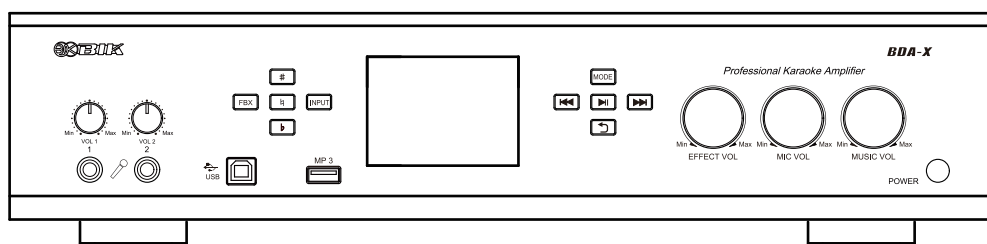




## OWNER'S MANUAL 使用说明书

# **BDA-X31** **BDA-X33**

**Professional Karaoke Amplifier**  
数码立体声二合一卡拉OK功率放大器



Thank you for purchasing our Professional Karaoke Amplifier.  
Please read the owner's manual thoroughly prior to use.  
Please keep the manual for future reference.

感谢您购买本公司的数码立体声二合一卡拉OK功率放大器。  
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**

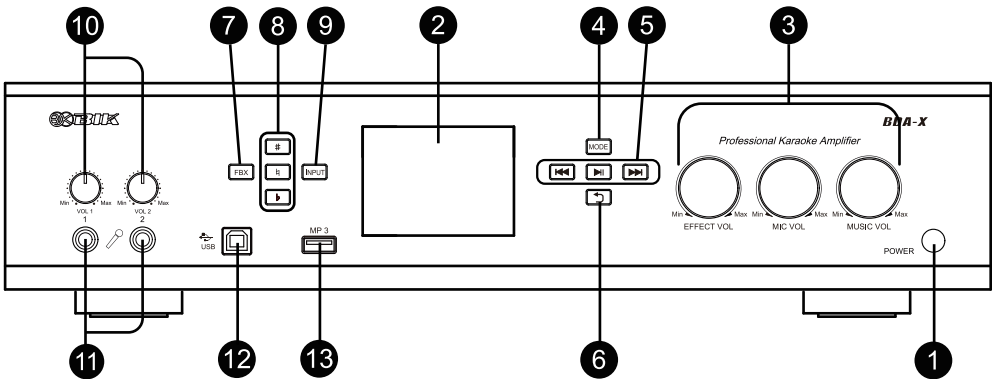
- Making use of this product under the circumstances that a smoke, an abnormal smell, an irregular sound coming out, it may cause a fire and an electric shock. In this case, switch off the product, and take AC plug out of the outlet right away. Bring it to the shop for repair.
- In case when water or 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 highly 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 not for water to go into or get wet, or it may cause a fire or get an electric shock.
- This product can be used only with AC220V-240V, otherwise it may cause a fire or get 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.

 **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 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

FRONT PANEL



- 1

**Power Switch**

Push switch button-"On", and Re-push it and then "Off".

2

**Display**

3

**Volume Switch**

To adjust EFFECT and MIC, MUSIC Volume by turning. Press to switch to the detailed setting screen.

4

**MODE Switch**

The mode can be changed by pressing once. Press and hold to save the current settings to the mode in use.

5

**REVERSE/PLAY/PAUSE/NEXT Button**

Available in MP3.

6

**Return Button**

Return to Main Screen.
- 7

**FBX Button**

To adjust Feed Back Canceller of MIC.

8

**Key Control Button**

To adjust keycontrol of Music.

9

**Input Select Button**

To select of music input souce.

10

**Microphone Volume**

To adjust sound volume of MIC 1, MIC 2.

11

**Microphone Input**

To Input 2 microphones (MIC 1, MIC 2).

12

**USB Port**

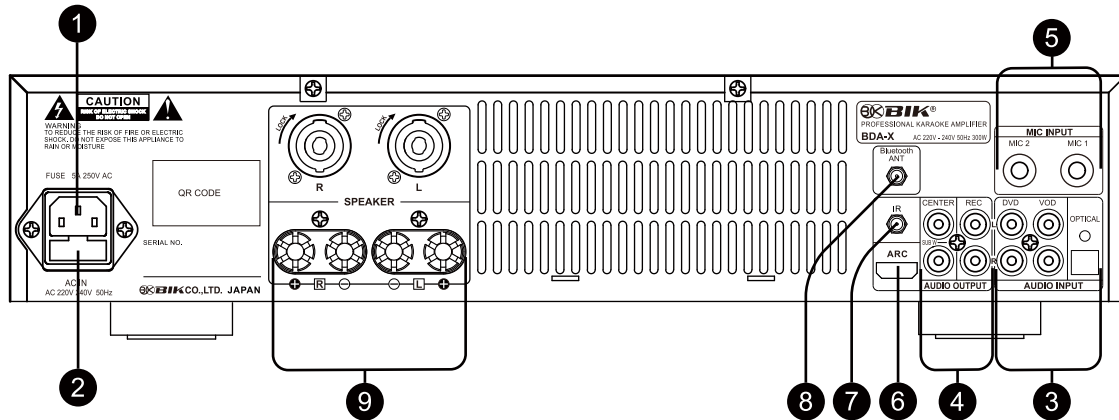
Connected to a PC to adjust various settings .

13

**MP3 USB Port**

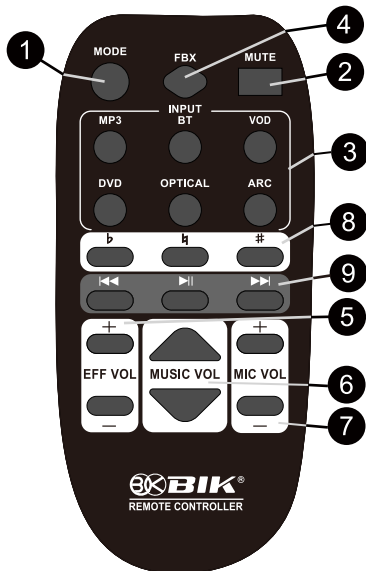
To insert USB with MP3 audio.

## REAR PANEL



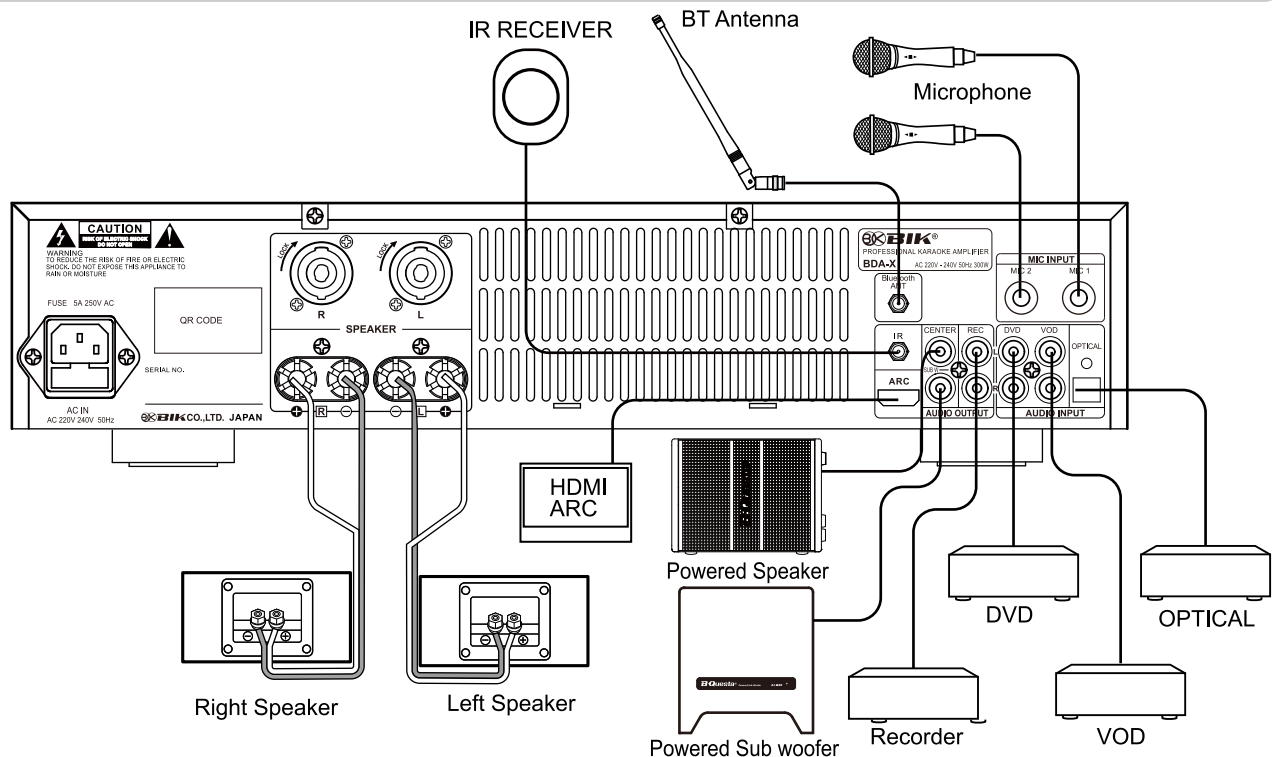
- 1 Power Cord Socket.**  
Power input AC 220 - 240V / 50Hz.
- 2 FUSE Box**
- 3 Audio Input**  
VOD, DVD and Optical input.
- 4 Audio Output**  
REC, Center and Sub-woofer output. Sub-woofer output available for MP3 and ARC.
- 5 MIC Input**  
To insert MIC 1 and 2.
- 6 HDMI ARC Output**  
Connect with HDMI ARC device.
- 7 IR ANT**  
Connect with IR Receiver.
- 8 Bluetooth ANT**  
Connect with Bluetooth antenna.
- 9 Speaker Output**  
Connect with speaker. (4 Ohms - 8 Ohms)

## REMOTE CONTROLLER



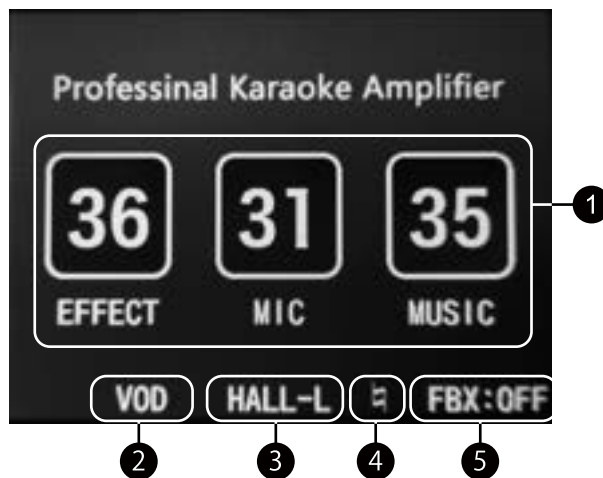
- 1 MODE**  
Can be change the MODE.
- 2 Mute Button**
- 3 Input Button**  
Can be select the Input signals.  
MP3, BT, VOD, DVD, OPTICAL, ARC.
- 4 FBX Button**  
To adjust Feed Back Canceller of MIC.
- 5 EFFECT Volume**  
To adjust Effect volume.
- 6 MUSIC Volume**  
To adjust Music volume.
- 7 MIC Volume**  
To adjust MIC volume.
- 8 Key Control Button**  
To adjust Music Interval tone Level.  
b : To slow interval tone.  
# : To fast interval tone.  
♯ : Back to original.
- 9 Playback button**  
◀◀ : Reverse.  
▶▶ : Playback  
▶▶▶ : Fast forwarding.

## HOW TO CONNECT



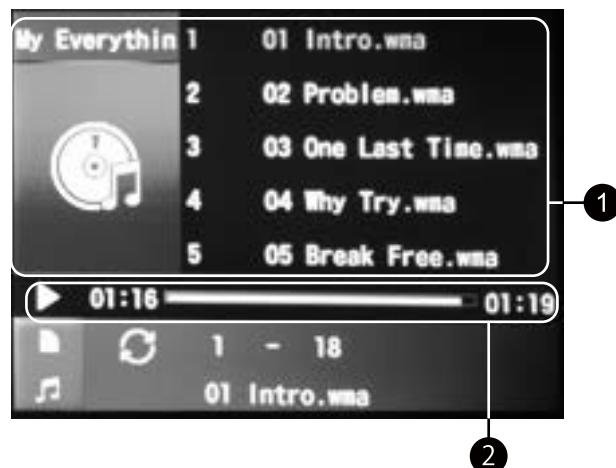
## HARDWARE OPERATION

### MAIN SCREEN INSTRUCTION



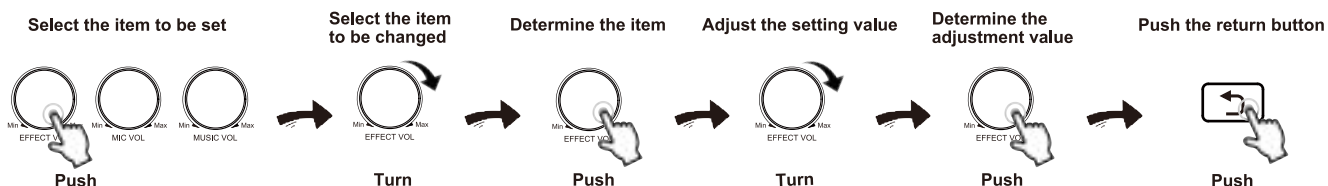
- ① VOLUME INDICATION
- ② INPUT INDICATION
- ③ MODE INDICATION
- ④ KEY CONTROL INDICATION
- ⑤ FBX INDICATION

### USB INPUT (MP3) SCREEN INSTRUCTION



- ① Music Title List  
The folder name and song name are displayed. Can be select the song to play with the up and down buttons.
- ② Timeline of the song

## SETTING METHOD



## EFFECT SETTING SCREEN

| EFFECT SETTING   |       |
|------------------|-------|
| ECHO LEVEL       | 100%  |
| ECHO DIR LEVEL   | 50%   |
| ECHO-A PRE DELAY | 0ms   |
| ECHO-A DELAY     | 218ms |
| ECHO-A REPEAT    | 55%   |

| EFFECT SETTING   |       |
|------------------|-------|
| ECHO-B PRE DELAY | 0ms   |
| ECHO-B DELAY     | 217ms |
| ECHO-B REPEAT    | 54%   |
| ECHO R DELAY     | 0ms   |
| REV LEVEL        | 100%  |

| EFFECT SETTING |        |
|----------------|--------|
| REV DIR LEVEL  | 20%    |
| REV PRE DELAY  | 0ms    |
| REV TIME       | 2687ms |

### 1 Set Value

- ECHO LEVEL : 0% ~ 100%
- ECHO DIR LEVEL : 0% ~ 100%
- ECHO-A PRE DELAY : 0ms ~ 200ms
- ECHO-A DELAY : 0ms ~ 500ms
- ECHO-A REPEAT : 0% ~ 90%
- ECHO-B PRE DELAY : 0ms ~ 200ms
- ECHO-B DELAY : 0ms ~ 500ms
- ECHO-B REPEAT : 0% ~ 90%
- ECHO R DELAY : 0ms ~ 250ms
- REV LEVEL : 0% ~ 100%
- REV DIR LEVEL : 0% ~ 100%
- REV PRE DELAY : 0ms ~ 200ms
- REV TIME : 0ms ~ 5000ms

## MIC SETTING SCREEN

| MIC SETTING |       |
|-------------|-------|
| E01: 20.5Hz | 0.0dB |
| E02: 31.9Hz | 0.0dB |
| E03: 50.6Hz | 0.0dB |
| E04: 80.3Hz | 0.0dB |
| E05: 125Hz  | 0.0dB |

| MIC SETTING  |       |
|--------------|-------|
| E06: 198Hz   | 0.0dB |
| E07: 315Hz   | 0.0dB |
| E08: 490Hz   | 0.0dB |
| E09: 721Hz   | 0.0dB |
| E010: 1240Hz | 0.0dB |

| MIC SETTING   |       |
|---------------|-------|
| E011: 1920Hz  | 0.0dB |
| E012: 3050Hz  | 0.0dB |
| E013: 5040Hz  | 0.0dB |
| E014: 7550Hz  | 0.0dB |
| E015: 12000Hz | 0.0dB |

### 1 MIC Equalizer Set Value

- 15 Band Equalizer GAIN : -24dB - +12dB

## MUSIC SETTING SCREEN

| MUSIC SETTING |       |
|---------------|-------|
| E01: 20.5Hz   | 0.0dB |
| E02: 31.9Hz   | 0.0dB |
| E03: 50.6Hz   | 0.0dB |
| E04: 80.3Hz   | 0.0dB |
| E05: 125Hz    | 0.0dB |

| MUSIC SETTING |       |
|---------------|-------|
| E06: 198Hz    | 0.0dB |
| E07: 315Hz    | 0.0dB |
| E08: 490Hz    | 0.0dB |
| E09: 721Hz    | 0.0dB |
| E010: 1240Hz  | 0.0dB |

| MUSIC SETTING |       |
|---------------|-------|
| E011: 1920Hz  | 0.0dB |
| E012: 3050Hz  | 0.0dB |
| E013: 5040Hz  | 0.0dB |
| E014: 7550Hz  | 0.0dB |
| E015: 12000Hz | 0.0dB |

### 1 MUSIC Equalizer Set Value

- 15 Band Equalizer GAIN : -24dB - +12dB

## PC SOFTWARE OPERATION

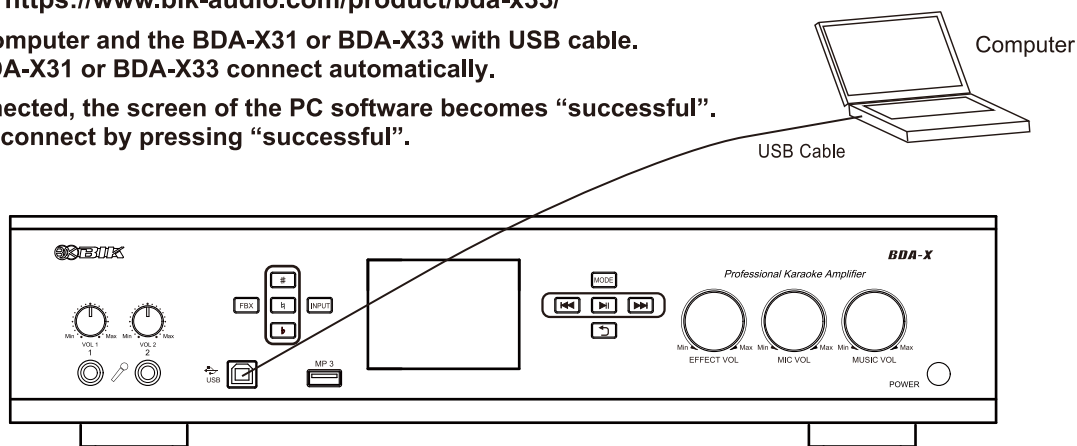
1. Please download “BDA-X31 / BDA-X33 PC SOFTWARE” from BIK home page.

※ URL: <https://www.bik-audio.com/product/bda-x31/>

※ URL: <https://www.bik-audio.com/product/bda-x33/>

2. Connect computer and the BDA-X31 or BDA-X33 with USB cable.  
PC and BDA-X31 or BDA-X33 connect automatically.

3. When connected, the screen of the PC software becomes “successful”.  
Can be disconnect by pressing “successful”.



## MAIN SCREEN INSTRUCTION



### 1 PC Connect Indicator

Can be connect the PC with BDA-X31 or BDA-X33.  
When connected, it will be displayed in green.

### 2 Main items Select

Can be adjust various settings of  
the selected Main item menu.

### 3 Input Select

Select input from VOD, DVD, OPT, MP3, BT and ARC.  
Automatic input selection function and Sing/Dance mode  
switching are available.

### 4 Music, Mic and Effect Volume

Can be adjust Music, Mic and Effect volumes.  
Can be mute by pressing the “speaker button”.

- Music : 0 - 84%
- Mic : 0 - 84%
- Effect : 0 - 84%

🔊 : unmute

🔇 : mute

### 5 Graphic Equalizer

Can be adjust visually HPF, LPF and GAIN, frequency  
and “Q” of 7 band EQ.

- GAIN : -24dB - +12dB
- Frequency : 19.7Hz - 20600Hz
- Q : 0.4 - 128

### 6 Equalizer and various values Setting

- Equalizer : 7 band  
Can be fine adjust GAIN, Frequency and “Q”.
- Music Vol : 0 - 100%
- Dir Vol : 0 - 100%
- Echo Vol : 0 - 100%
- Reverb Vol : 0 - 100%
- Left Delay : 0.0 - 20.0ms
- Right Delay : 0.0 - 20.0ms
- Threshold : -20 - 14dBu
- Attack : 0.5 - 90ms
- Release : Atk×2 - Atk×32ms
- Ratio : 1.0 - 100.0
- HPF Freq : OFF - 20600Hz
- LPF Freq : 19.7 - 20600Hz
- HPF Slope : Bessele, Butterworth, Link Riley
- LPF Slope : Bessele, Butterworth, Link Riley
- Left Mute : Mute or Unmute
- Right Mute : Mute or Unmute
- EQ Reset : Reset all EQ
- EQ Pass : Pass all EQ



## CENTER SCREEN INSTRUCTION



### 2 Graphic Equalizer

Can be adjust visually HPF, LPF and GAIN, frequency and "Q" of 7 band EQ.

- GAIN : -24dB - +12dB
- Frequency : 10.5Hz - 20600Hz
- Q : 0.4 - 128

### 1 Equalizer and various values Setting

- Equalizer : 7 band
- Music Vol : 0 - 100%
- Dir Vol : 0 - 100%
- Echo Vol : 0 - 100%
- Reverb Vol : 0 - 100%
- Threshold : -20 - 14dBu
- Attack : 0.5 - 90ms
- Release : Atk×2 - Atk×32ms
- Ratio : 1.0 - 100.0
- Delay : 0.0 - 20.0ms
- HPF Freq : OFF - 20600Hz
- LPF Freq : 19.7 - 20600Hz
- HPF Slope : Bessele, Butterworth, Link Riley
- LPF Slope : Bessele, Butterworth, Link Riley
- Mute : Mute or Unmute
- EQ Reset : Reset all EQ
- EQ Pass : Pass all EQ

## SUBWOOFER SCREEN INSTRUCTION



### 2 Graphic Equalizer

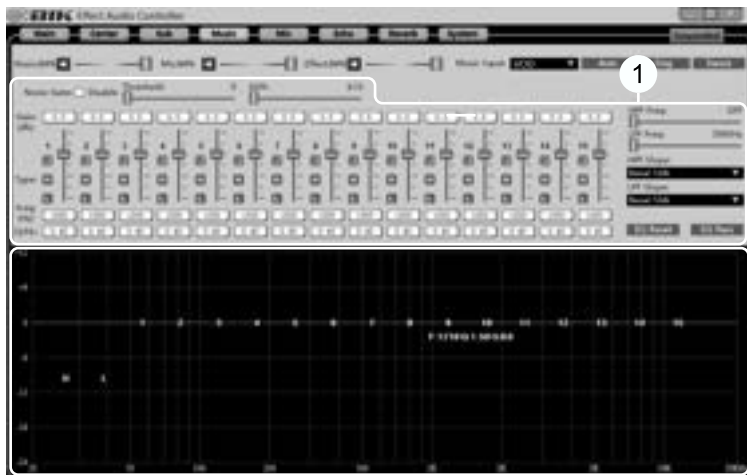
Can be adjust visually HPF, LPF and GAIN, frequency and "Q" of 7 band EQ.

- GAIN : -24dB - +12dB
- Frequency : 10.5Hz - 20600Hz
- Q : 0.4 - 128

### 1 Equalizer and various values Setting

- Equalizer : 7 band
- Music Vol : 0 - 100%
- Dir Vol : 0 - 100%
- Echo Vol : 0 - 100%
- Reverb Vol : 0 - 100%
- Threshold : -20 - 14dBu
- Attack : 0.5 - 90ms
- Release : Atk×2 - Atk×32ms
- Ratio : 1.0 - 100.0
- Delay : 0.0 - 20.0ms
- HPF Freq : OFF - 20600Hz
- LPF Freq : 19.7 - 20600Hz
- HPF Slope : Bessele, Butterworth, Link Riley
- LPF Slope : Bessele, Butterworth, Link Riley
- Mute : Mute or Unmute
- EQ Reset : Reset all EQ
- EQ Pass : Pass all EQ

## MUSIC SCREEN INSTRUCTION



### 1 Equalizer and various values Setting

- Equalizer : 15 band
- Noise Gate : Disable or Enable
- Threshold : 0 - 20
- Shift : b10 - 0 - #10
- HPF Freq : OFF - 303Hz
- LPF Freq : 5990Hz - OFF
- HPF Slope : Bessele, Butterworth, Link Riley
- LPF Slope : Bessele, Butterworth, Link Riley
- EQ Reset : Reset all EQ
- EQ Pass : Pass all EQ

### 2 Graphic Equalizer

Can be adjust visually HPF, LPF and GAIN, frequency and "Q" of 15 band EQ.

- GAIN : -24dB - +12dB
- Frequency : 10.5Hz - 20600Hz
- Q : 0.4 - 128

## MIC SCREEN INSTRUCTION



### 2 Graphic Equalizer

Can be adjust visually HPF, LPF and GAIN, frequency and "Q" of 15 band EQ.

- GAIN : -24dB - +12dB
- Frequency : 10.5Hz - 20600Hz
- Q : 0.4 - 128

### 1 Equalizer and various values Setting

- Equalizer : 15 band
- Noise Gate : Disable or Enable
- Noise Gate Threshold : 0 - 20
- VOL MIC A : 0 - 84%
- VOL MIC B : 0 - 84%
- Threshold : -20 - 14dBu
- Attack : 0.5 - 90ms
- Release : Atk×2 - Atk×32ms
- Ratio : 1.0 - 100.0
- HPF Freq : OFF - 303Hz
- LPF Freq : 5990Hz - OFF
- HPF Slope : Bessele, Butterworth, Link Riley
- LPF Slope : Bessele, Butterworth, Link Riley
- MIC FBX : OFF, 1, 2, 3
- MIC A / MIC B : Can be set up individually
- EQ Reset : Reset all EQ
- EQ Pass : Pass all EQ

## ECHO SCREEN INSTRUCTION



### 2 Graphic Equalizer

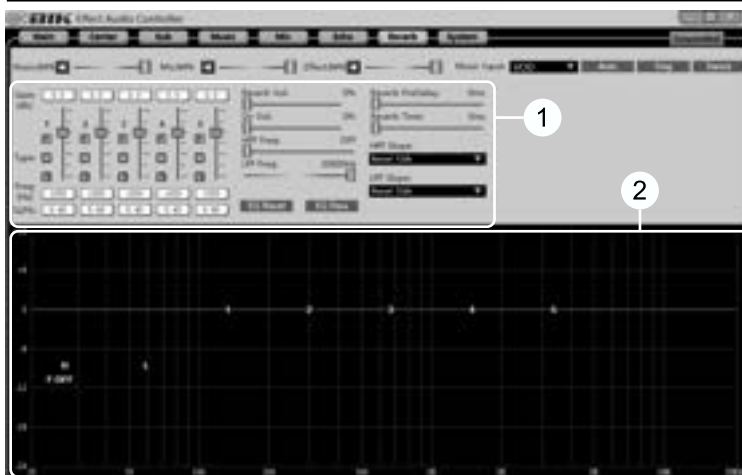
Can be adjust visually HPF, LPF and GAIN, frequency and "Q" of 5 band EQ.

- GAIN : -24dB - +12dB
- Frequency : 10.5Hz - 20600Hz
- Q : 0.4 - 128

### 1 Equalizer and various values Setting

- Equalizer : 5 band
- Echo Vol : 0 - 100%
- Dir Vol : 0 - 100%
- HPF Freq : OFF - 20600Hz
- LPF Freq : 19.7Hz - 20600
- HPF Slope : Bessele, Butterworth, Link Riley
- LPF Slope : Bessele, Butterworth, Link Riley
- Echo LPreDelay : 0 - 200ms
- Echo RDelay : 0 - 250ms
- Echo RPreDelay : 0 - 200ms
- Echo A Delay : 0 - 500ms
- Echo A Repeat : 0 - 90%
- Echo B Delay : 0 - 500ms
- Echo B Repeat : 0 - 90%
- EQ Reset : Reset all EQ
- EQ Pass : Pass all EQ

## REVERB SCREEN INSTRUCTION



### 1 Equalizer and various values Setting

- Equalizer : 5 band
- Reverb Vol : 0 - 100%
- Dir Vol : 0 - 100%
- HPF Freq : OFF - 20600Hz
- LPF Freq : 19.7Hz - 20600
- HPF Slope : Bessele, Butterworth, Link Riley
- LPF Slope : Bessele, Butterworth, Link Riley
- Reverb PreDelay : 0 - 200ms
- Reverb Time : 0 - 5000ms
- EQ Reset : Reset all EQ
- EQ Pass : Pass all EQ

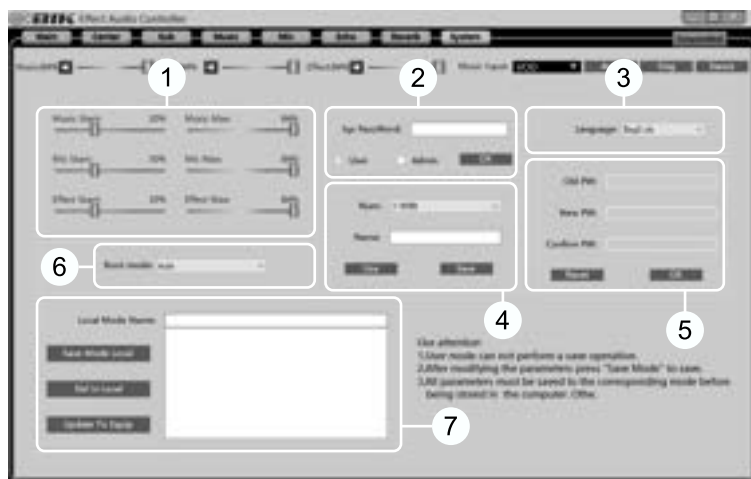
### 2 Graphic Equalizer

Can be adjust visually HPF, LPF and GAIN, frequency and "Q" of 5 band EQ.

- GAIN : -24dB - +12dB
- Frequency : 10.5Hz - 20600Hz
- Q : 0.4 - 128



## SYSTEM SCREEN INSTRUCTION



### 1 MAX AND INITIAL VOLUME SETTING

Can be set max volume and initial volume.

- Music Start : 0 - 84%
- Mic Start : 0 - 84%
- Effect Start : 0 - 84%
- Music Max : 0 - 84%
- Mic Max: 0 - 84%
- Effect Max : 0 - 84%

### 2 Sys PassWord

Can be enter the password"123456" and log in with administrator privileges. The administrator can lock each setting value so that it cannot be changed.

### 3 Language

Can be choose English or Chinese.

### 4 Hardware Memory

Each setting can be saved in hardware memory and the saved value can be recalled.  
Can be change the name freely.

### 5 Change Password

Can be set a new password. Enter current password first, then enter new password.

### 6 Boot mode

Select which setting mode to operate in when activated.

### 7 PC Memory

Each setting can be saved in PC memory and the saved value can be recalled.  
Can be change the name freely and save it in any folder. The filename extension is ".jib".

- Save Mode Local : Save to PC with the Original name.
- Del In Local : Delete the file with that name from PC.
- Update To Equip : Copy the settings saved on PC Memory to hardware Memory.

## 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                                                                                                                                                                                                                    |
|------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Can not power ON .                                   | ● The power cord is not connected.                                                                                                                                                                                                                                                    | ● Connect the power cord to AC outlet.                                                                                                                                                                                    |
| Power ON, but no sound.                              | <ul style="list-style-type: none"> <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>● 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. | ● Output level of audio component is set to minimum.                                                                                                                                                                                                                                  | ● Adjust it to suitable position.                                                                                                                                                                                         |
| No microphone sound but playback the music sound.    | <ul style="list-style-type: none"> <li>● Microphone switch is to "OFF".</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>                                                                                     |
| Without echo.                                        | ● Echo volume is minimum.                                                                                                                                                                                                                                                             | ● Adjust the Echo volume.                                                                                                                                                                                                 |
| No sound and no video at a HDMI ARC connection.      | <ul style="list-style-type: none"> <li>● A connection of a HDMI cord is loose.</li> <li>● The HDMI cord broken.</li> </ul>                                                                                                                                                            | <ul style="list-style-type: none"> <li>● Connect it correctly once again.</li> <li>● Change HDMI cord to new ones.</li> </ul>                                                                                             |
| Noize out of microphone                              | <ul style="list-style-type: none"> <li>● Receiver volume is set " Minimum " position?</li> <li>● Obstacle wave is disturbing?</li> </ul>                                                                                                                                              | <ul style="list-style-type: none"> <li>● Turn up Receiver volume.</li> <li>● Set another channel.</li> </ul>                                                                                                              |

## SPECIFICATIONS

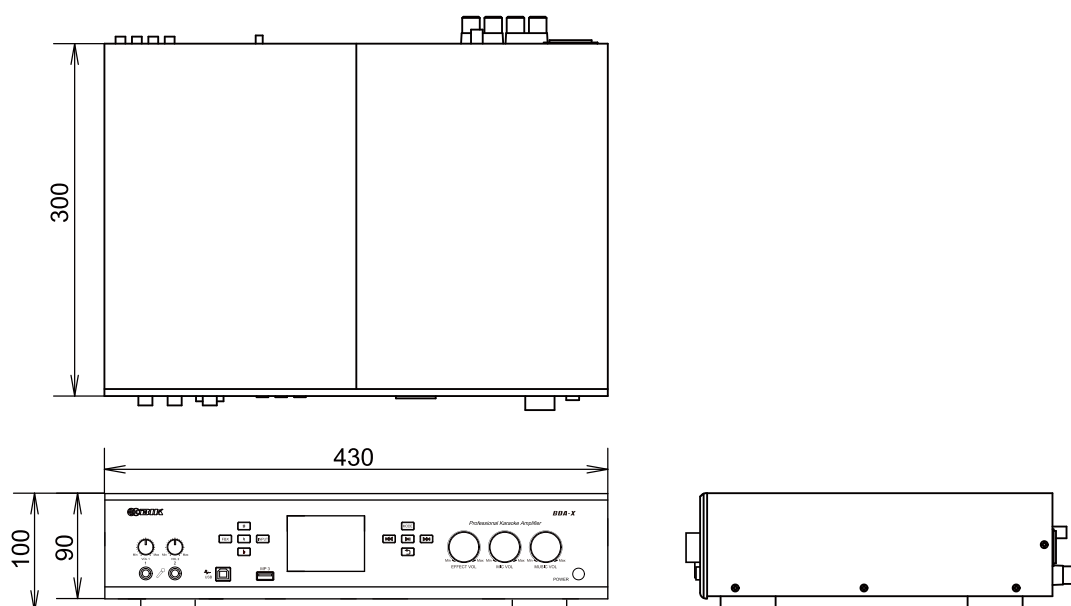
### BDA-X31

|                                 |                                    |
|---------------------------------|------------------------------------|
| Max output power .....          | 230W + 230W /8Ω<br>350W + 350W /4Ω |
| Total Harmonic Distortion ..... | 0.5% (max)                         |
| S/N Ratio .....                 | 87dB                               |
| Speaker Impedance .....         | 4 - 8Ω                             |
| Audio Input                     |                                    |
| VOD, DVD .....                  | 220mV                              |
| Optical, Bluetooth              |                                    |
| MIC Input                       |                                    |
| MIC-1, MIC-2 .....              | 15mV                               |
| REC Output .....                | 1.6V                               |
| Center Output .....             | 1.6V                               |
| Sub woofer Output .....         | 1.6V                               |
| Frequency response              |                                    |
| Microphone .....                | 20Hz - 20KHz±3dB                   |
| Music.....                      | 20Hz - 20KHz±3dB                   |
| Equalizer                       |                                    |
| Music.....                      | 15 band                            |
| MIC .....                       | 15 band                            |
| Center .....                    | 7 band                             |
| Subwoofer .....                 | 7 band                             |
| Echo .....                      | 5 band                             |
| Reverb .....                    | 5 band                             |
| Key Control .....               | ±10 pitch                          |
| HDMI ARC .....                  | 1 port                             |
| USB Input .....                 | 1 port                             |
| Power supply, Others            |                                    |
| Power Voltage .....             | AC220V - 240V / 50Hz               |
| Power consumption .....         | 300W                               |
| Dimensions (W X H X D) .....    | 430 X 100X 300 mm                  |
| Weight .....                    | 8.5 Kg                             |
| Accessories                     |                                    |
| Owner's manual .....            | 1                                  |
| Power Cable .....               | 1                                  |
| IR Receiver .....               | 1                                  |
| Bluetooth Antenna .....         | 1                                  |
| Remote Controller .....         | 1                                  |

### BDA-X33

|                                 |                                    |
|---------------------------------|------------------------------------|
| Max output power .....          | 400W + 400W /8Ω<br>500W + 500W /4Ω |
| Total Harmonic Distortion ..... | 0.5% (max)                         |
| S/N Ratio .....                 | 87dB                               |
| Speaker Impedance .....         | 4 - 8Ω                             |
| Audio Input                     |                                    |
| VOD, DVD .....                  | 300mV                              |
| Optical, Bluetooth              |                                    |
| MIC Input                       |                                    |
| MIC-1, MIC-2 .....              | 20mV                               |
| REC Output .....                | 1.6V                               |
| Center Output .....             | 1.6V                               |
| Sub woofer Output .....         | 1.6V                               |
| Frequency response              |                                    |
| Microphone .....                | 20Hz - 20KHz±3dB                   |
| Music.....                      | 20Hz - 20KHz±3dB                   |
| Equalizer                       |                                    |
| Music.....                      | 15 band                            |
| MIC .....                       | 15 band                            |
| Center .....                    | 7 band                             |
| Subwoofer .....                 | 7 band                             |
| Echo .....                      | 5 band                             |
| Reverb .....                    | 5 band                             |
| Key Control .....               | ±10 pitch                          |
| HDMI ARC .....                  | 1 port                             |
| USB Input .....                 | 1 port                             |
| Power supply, Others            |                                    |
| Power Voltage .....             | AC220V - 240V / 50Hz               |
| Power consumption .....         | 700W                               |
| Dimensions (W X H X D) .....    | 430 X 100X 300 mm                  |
| Weight .....                    | 10.0 Kg                            |
| Accessories                     |                                    |
| Owner's manual .....            | 1                                  |
| Power Cable .....               | 1                                  |
| IR Receiver .....               | 1                                  |
| Bluetooth Antenna .....         | 1                                  |
| Remote Controller .....         | 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><br>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><br>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**

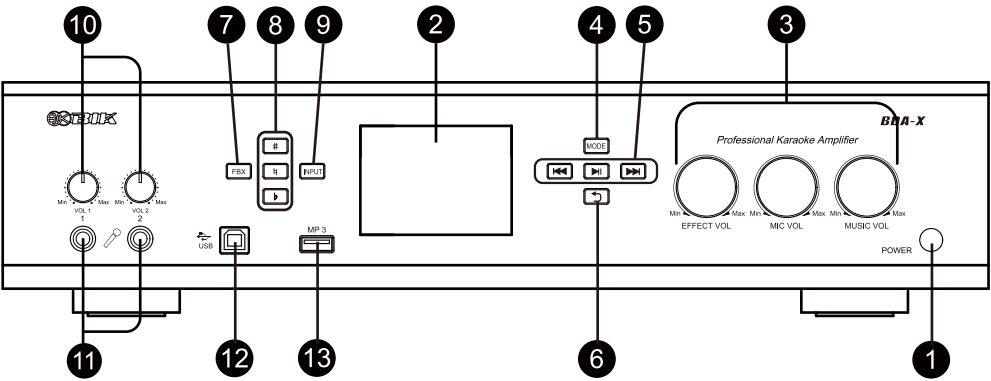
- 在使用时、如果有冒烟、异味、异音等异常现象发生、为避免发生火灾、触电现象等、请立即切断本机电源、然后拔下AC电源插头。确认没有再冒烟后、到贩卖店进行修理。
- 在使用时如有水或异物等混入机体内、首先切断机体电源、然后拔下电源插头。请尽快与经销商联系、进行修理。
- 在未进行维修的状态下使用、会引起火灾、触电现象等问题。
- 请勿分解、改装本机器、会引起火灾、触电、故障等现象。绝对不可以打开本机器的外壳、会引起触电事故。内部的检查、修理等请委托经销商。
- 请勿在浴室内使用、会引起火灾、触电等现象。
- 请防止机器进水或使机器受潮、会引起火灾、触电等现象。
- 电源插头不要插入电压（AC220V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

各部分的功能及名称

前面板



- 1 电源开关

按一下ON、再按即为OFF

2 显示屏

3 音量调节

音乐、麦克风、效果的音量调节旋钮。  
按下进入详细调节界面。

4 模式调节

可以通过按下按钮来改变模式。长按可保存当前设置。

5 录音・播放按钮

⏮: 上一曲  
▶|| / REC: 播放 / 录音（长按2秒以上）  
▶▶: 下一曲

6 后退按键
- 7 啸叫抑制

8 升降调按钮

b: 降调、#: 升调、q: 复原

9 输入切换按键

按此按键的时候会依据VOD, DVD, BT, USB, OPT, ARC的顺序切换信号。

10 麦克风音量旋钮

麦克风总音量的调节。

11 麦克风输入端子

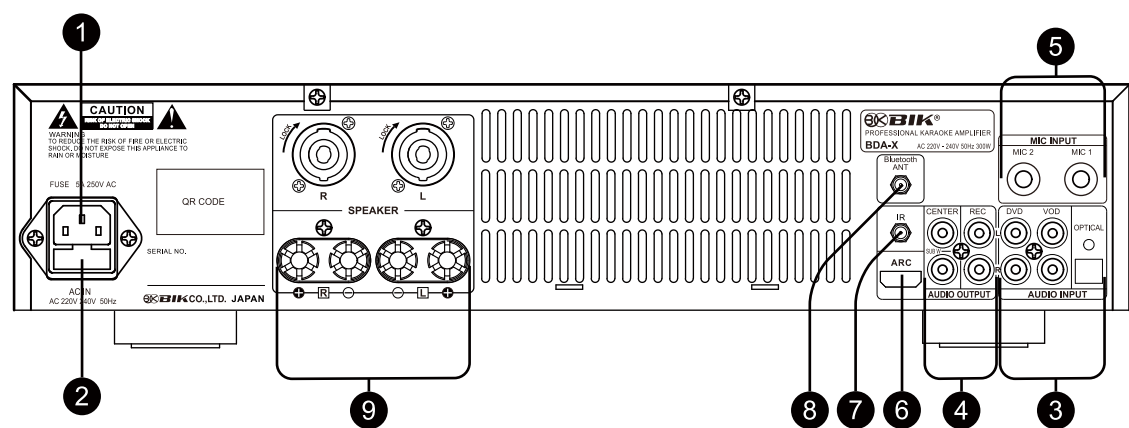
可以插入2支麦克风（MIC 1、MIC 2）

12 USB端子

电脑连接口。

13 USB输入端子(MP3)

后背板



- 1 电源线插座  
电源电压 AC 220 - 240V / 50Hz

2 保险丝

3 音频信号输入端子  
VOD, DVD, 数字光纤

4 音频信号输出端子  
录音, 中置, 超低输出。  
只有ARC和MP3信号输入时才有超低音输出。

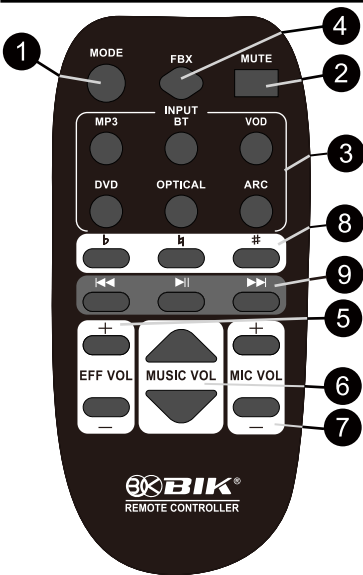
5 麦克风输入端子  
连接MIC-1, MIC-2
- 6 HDMI ARC 输出端子

7 红外线天线  
连接附属IR天线

8 蓝牙天线端子  
连接附属蓝牙天线

9 音箱端子  
4 - 8Ω

遥控器



- 1 音效模式

2 静音

3 切换音源输入  
MP3、BT、VOD、DVD  
OPTICAL、ARC。

4 啸叫抑制

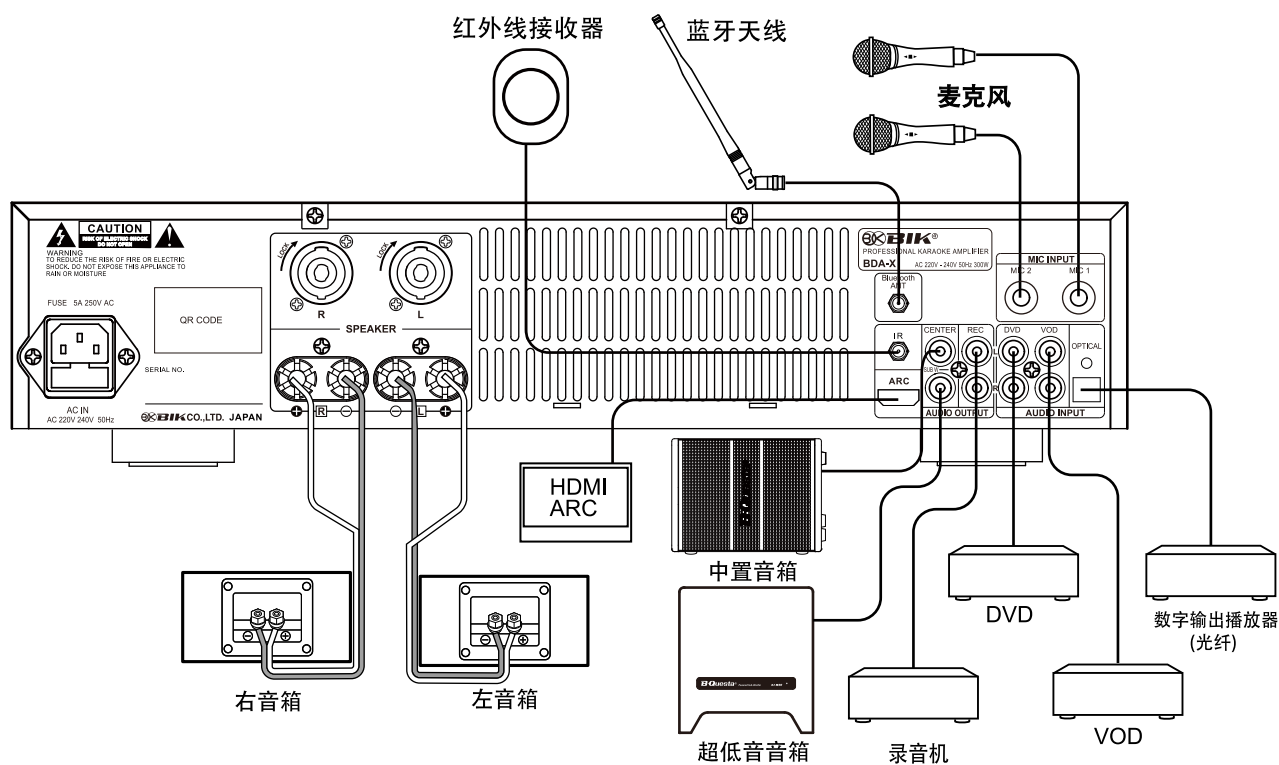
5 效果音量调节

6 音乐音量调节
- 7 麦克风音量调节

8 声调调节  
b: 降调  
#: 升调  
h: 复原

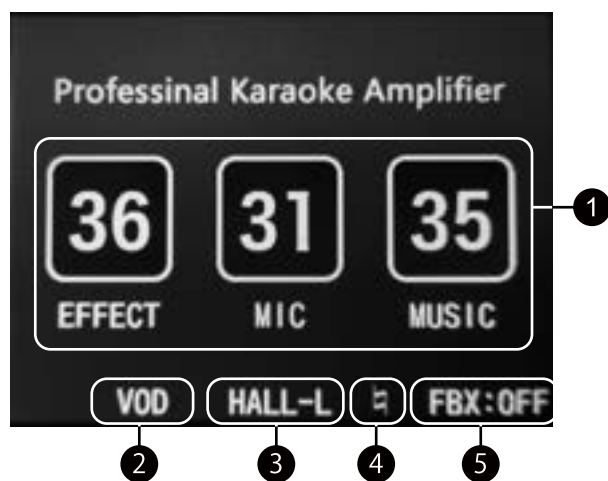
9 播放控制  
<<<: 上一曲  
>>||: 播放/暂停  
>>>: 下一曲

连接方法



硬件操作

主界面



- ① 音量显示
- ② 输入显示
- ③ 模式显示
- ④ 声调显示
- ⑤ 啸叫抑制

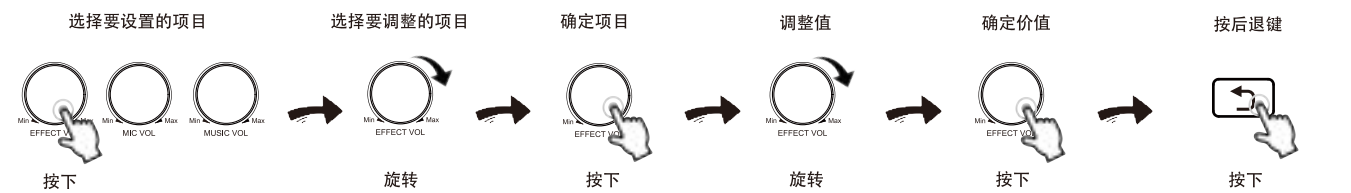
USB(MP3)输入界面



- ① 播放列表  
显示文件与歌曲的名称，  
通过上下键选择要播放的歌曲。
- ② 歌曲的播放时间



如何设置



效果菜单

| EFFECT SETTING   |       |
|------------------|-------|
| ECHO LEVEL       | 100%  |
| ECHO DIR LEVEL   | 50%   |
| ECHO-A PRE DELAY | 0ms   |
| ECHO-A DELAY     | 218ms |
| ECHO-A REPEAT    | 55%   |

| EFFECT SETTING   |       |
|------------------|-------|
| ECHO-B PRE DELAY | 0ms   |
| ECHO-B DELAY     | 217ms |
| ECHO-B REPEAT    | 54%   |
| ECHO R DELAY     | 0ms   |
| REV LEVEL        | 100%  |

| EFFECT SETTING |        |
|----------------|--------|
| REV DIR LEVEL  | 20%    |
| REV PRE DELAY  | 0ms    |
| REV TIME       | 2687ms |

1 设定点

- ECHO LEVEL : 0% ~ 100%
- ECHO DIR LEVEL : 0% ~ 100%
- ECHO-A PRE DELAY : 0ms ~ 200ms
- ECHO-A DELAY : 0ms ~ 500ms
- ECHO-A REPEAT : 0% ~ 90%
- ECHO-B PRE DELAY : 0ms ~ 200ms
- ECHO-B DELAY : 0ms ~ 500ms
- ECHO-B REPEAT : 0% ~ 90%
- ECHO R DELAY : 0ms ~ 250ms
- REV LEVEL : 0% ~ 100%
- REV DIR LEVEL : 0% ~ 100%
- REV PRE DELAY : 0ms ~ 200ms
- REV TIME : 0ms ~ 5000ms

麦克风菜单

| MIC SETTING |       |
|-------------|-------|
| E01: 20.5Hz | 0.0dB |
| E02: 31.9Hz | 0.0dB |
| E03: 50.6Hz | 0.0dB |
| E04: 80.3Hz | 0.0dB |
| E05: 125Hz  | 0.0dB |

| MIC SETTING  |       |
|--------------|-------|
| E06: 198Hz   | 0.0dB |
| E07: 315Hz   | 0.0dB |
| E08: 490Hz   | 0.0dB |
| E09: 721Hz   | 0.0dB |
| E010: 1240Hz | 0.0dB |

| MIC SETTING   |       |
|---------------|-------|
| E011: 1920Hz  | 0.0dB |
| E012: 3050Hz  | 0.0dB |
| E013: 5040Hz  | 0.0dB |
| E014: 7550Hz  | 0.0dB |
| E015: 12000Hz | 0.0dB |

1 麦克风均衡器设置

- 15段式均衡器增益: -24dB - +12dB

音乐菜单

| MUSIC SETTING |       |
|---------------|-------|
| E01: 20.5Hz   | 0.0dB |
| E02: 31.9Hz   | 0.0dB |
| E03: 50.6Hz   | 0.0dB |
| E04: 80.3Hz   | 0.0dB |
| E05: 125Hz    | 0.0dB |

| MUSIC SETTING |       |
|---------------|-------|
| E06: 198Hz    | 0.0dB |
| E07: 315Hz    | 0.0dB |
| E08: 490Hz    | 0.0dB |
| E09: 721Hz    | 0.0dB |
| E010: 1240Hz  | 0.0dB |

| MUSIC SETTING |       |
|---------------|-------|
| E011: 1920Hz  | 0.0dB |
| E012: 3050Hz  | 0.0dB |
| E013: 5040Hz  | 0.0dB |
| E014: 7550Hz  | 0.0dB |
| E015: 12000Hz | 0.0dB |

1 音乐均衡器设置

- 15段式均衡器增益: -24dB - +12dB

## 软件操作

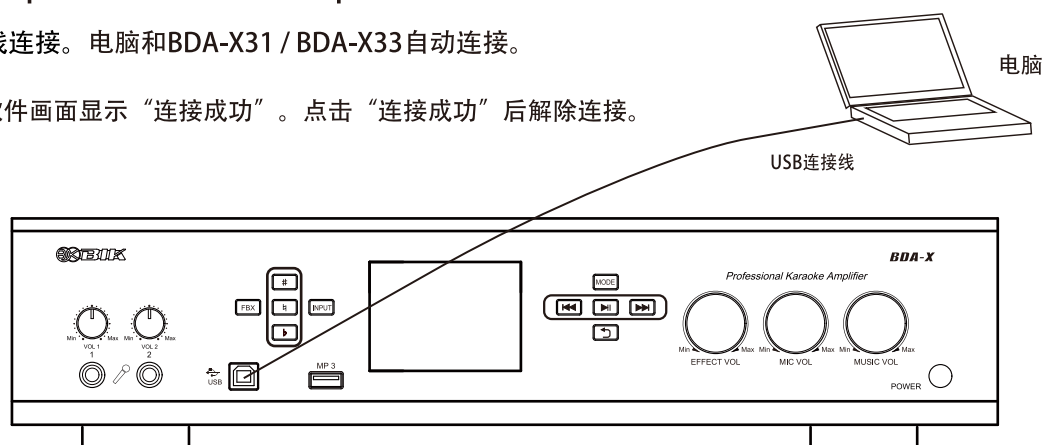
1. BDA-X31 / BDA-X33 的调试软件请在BIK官方网站下载。

※ URL: <https://www.bik-audio.com/product/bda-x31/>

※ URL: <https://www.bik-audio.com/product/bda-x33/>

2. 用USB连接线连接。电脑和BDA-X31 / BDA-X33自动连接。

3. 连接后电脑软件画面显示“连接成功”。点击“连接成功”后解除连接。



## 主界面操作



### 1 电脑连接显示

连接电脑和BDA-X31 / BDA-X33。连接成功时显示绿色。

### 2 系统菜单

可调整所选模式菜单的各种数值。

### 3 输入选择

从VOD, DVD, OPT, MP3, BT, 和ARC中选择输入信号。

### 4 音量设置

音乐、麦克风、效果的音量调节。  
按扬声器图标即变为静音。

- 音乐 : 0 - 84%
- 话筒 : 0 - 84%
- 效果 : 0 - 84%

🔊 : 无静音

🔇 : 静音

### 5 图形均衡器

7个带均衡器的HPF、LPF和GAIN、频率和Q值可以调节。

- 增益 : -24dB - +12dB
- 频率 : 19.7Hz - 20600Hz
- Q : 0.4 - 128

### 6 调整配置均衡器和各种项目

- 频段 : 7  
可以调整7波段EQ的增益、频率和Q值。
- 音乐音量 : 0 - 100%
- 直达声音量 : 0 - 100%
- 回声效果音量 : 0 - 100%
- 混响效果音量 : 0 - 100%
- 左声道延时 : 0.0 - 20.0ms
- 右声道延时 : 0.0 - 20.0ms
- 启动电平 : -20 - 14dBu
- 启动时间 : 0.5 - 90ms
- 释放时间 : Atk×2 - Atk×32ms
- 压限比例 : 1.0 - 100.0
- 高通 : OFF - 20600Hz
- 低通 : 19.7 - 20600Hz
- 高通滤波器斜率 : Bessele, Butterworth, Link Riley
- 低通滤波器斜率 : Bessele, Butterworth, Link Riley
- 左声道 : 无静音 - 静音
- 右声道 : 无静音 - 静音
- 均衡器复位
- 均衡器旁通

中置界面操作



2 图形均衡器

- 7个带均衡器的HPF、LPF和GAIN、频率和Q值可以调节。
- 增益：-24dB - +12dB
  - 频率：10.5Hz - 20600Hz
  - Q：0.4 - 128

1 调整配置均衡器和各种项目

- 频段：7  
可以调整7波段EQ的增益、频率和Q值。
- 音乐音量：0 - 100%
- 直达声音量：0 - 100%
- 回声效果音量：0 - 100%
- 混响效果音量：0 - 100%
- 启动电平：-20 - 14dBu
- 启动时间：0.5 - 90ms
- 释放时间：Atk×2 - Atk×32ms
- 压限比例：1.0 - 100.0
- 延时：0.0 - 20.0ms
- 高通：OFF - 20600Hz
- 低通：19.7 - 20600Hz
- 高通滤波器斜率：Bessele, Butterworth, Link Riley
- 低通滤波器斜率：Bessele, Butterworth, Link Riley
- 声道：无静音 - 静音
- 均衡器复位
- 均衡器旁通

超低音界面操作



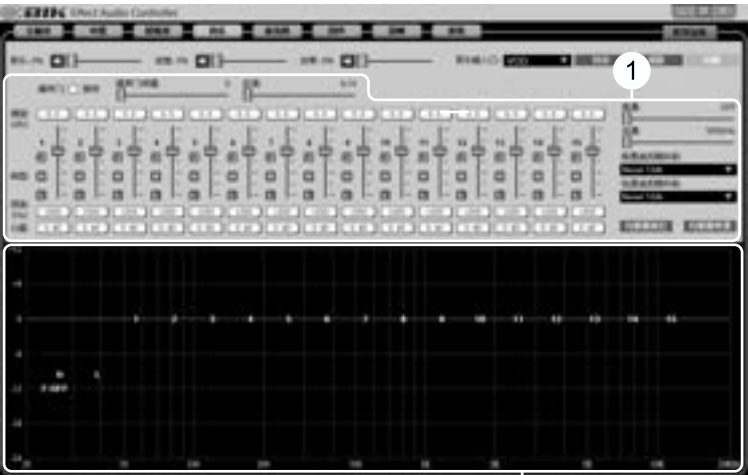
2 图形均衡器

- 7个带均衡器的HPF、LPF和GAIN、频率和Q值可以调节。
- 增益：-24dB - +12dB
  - 频率：10.5Hz - 20600Hz
  - Q：0.4 - 128

1 调整配置均衡器和各种项目

- 频段：7  
可以调整7波段EQ的增益、频率和Q值。
- 音乐音量：0 - 100%
- 直达声音量：0 - 100%
- 回声效果音量：0 - 100%
- 混响效果音量：0 - 100%
- 启动电平：-20 - 14dBu
- 启动时间：0.5 - 90ms
- 释放时间：Atk×2 - Atk×32ms
- 压限比例：1.0 - 100.0
- 延时：0.0 - 20.0ms
- 高通：OFF - 20600Hz
- 低通：19.7 - 20600Hz
- 高通滤波器斜率：Bessele, Butterworth, Link Riley
- 低通滤波器斜率：Bessele, Butterworth, Link Riley
- 声道：无静音 - 静音
- 均衡器复位
- 均衡器旁通

音乐界面操作



1 调整配置均衡器和各种项目

- 频段：15  
可以调整15波段EQ的增益、频率和Q值。
- 噪声门：禁用 - 开启
- 噪声门阈值：0 - 20
- 变调：b20 - 0 - #10
- 高通：OFF - 330Hz
- 低通：5990Hz - OFF
- 高通滤波器斜率：Bessele, Butterworth, Link Riley
- 低通滤波器斜率：Bessele, Butterworth, Link Riley
- 均衡器复位
- 均衡器旁通

2 图形均衡器

- 15个带均衡器的HPF、LPF和GAIN、频率和Q值可以调节。
- 增益：-24dB - +12dB
  - 频率：10.5Hz - 20600Hz
  - Q：0.4 - 128

## 麦克风界面操作



### 2 图形均衡器

15个带均衡器的HPF、LPF和GAIN、频率和Q值可以调节。

- 增益：-24dB - +12dB
- 频率：10.5Hz - 20600Hz
- Q：0.4 - 128

## 回声界面操作

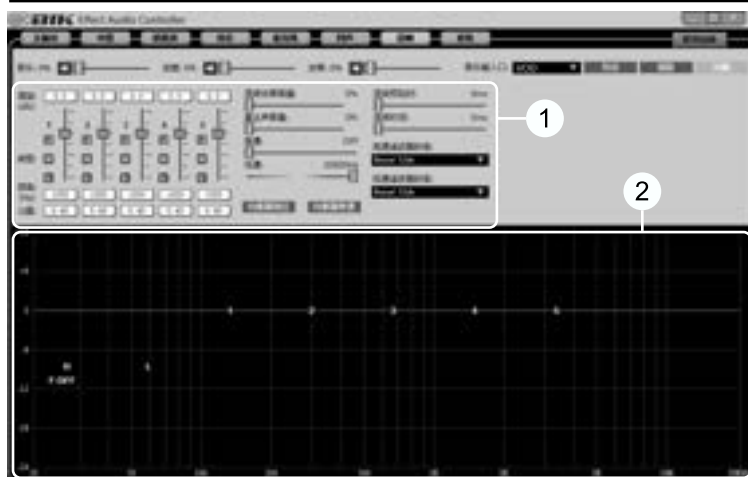


### 2 图形均衡器

5个带均衡器的HPF、LPF和GAIN、频率和Q值可以调节。

- 增益：-24dB - +12dB
- 频率：10.5Hz - 20600Hz
- Q：0.4 - 128

## 混响界面操作



### 1 调整配置均衡器和各种项目

- 频段：15  
可以调整15波段EQ的增益、频率和Q值。
- 噪声门：禁用 - 开启
- 噪声门阈值：0 - 20
- 音量麦克风A：0 - 84%
- 音量麦克风B：0 - 84%
- 启动电平：-20 - 14dBu
- 启动时间：0.5 - 90ms
- 释放时间：Atk×2 - Atk×32ms
- 压限比例：1.0 - 100.0
- 高通：OFF - 330Hz
- 低通：5990Hz - OFF
- 高通滤波器斜率：Bessele, Butterworth, Link Riley
- 低通滤波器斜率：Bessele, Butterworth, Link Riley
- 麦克风防啸叫：OFF, 1, 2, 3
- 麦克风A / 麦克风B：可以独立设置
- 均衡器复位
- 均衡器旁通

### 1 调整配置均衡器和各种项目

- 频段：5  
可以调整5波段EQ的增益、频率和Q值。
- 回声效果音量：0 - 100%
- 直达声音量：0 - 100%
- 回声左通道预延时：0 - 200ms
- 回声右通道延时：0 - 250ms
- 回声右通道预延时：0 - 200ms
- 高通：OFF - 20600Hz
- 低通：19.7 - 20600Hz
- 高通滤波器斜率：Bessele, Butterworth, Link Riley
- 低通滤波器斜率：Bessele, Butterworth, Link Riley
- 回声A延时：0 - 500ms
- 回声A重复：0 - 90%
- 回声B延时：0 - 500ms
- 回声B重复：0 - 90%
- 均衡器复位
- 均衡器旁通

### 1 调整配置均衡器和各种项目

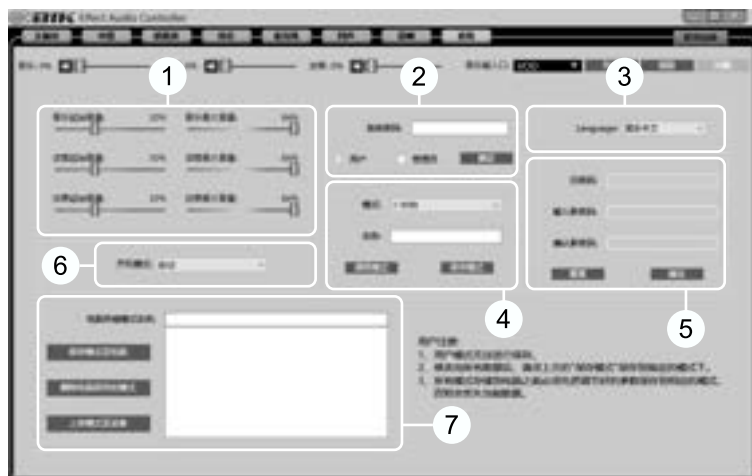
- 频段：5  
可以调整5波段EQ的增益、频率和Q值。
- 混响效果音量：0 - 100%
- 直达声音量：0 - 100%
- 混响预延时：0 - 200ms
- 混响延时：0 - 250ms
- 高通：OFF - 20600Hz
- 低通：19.7 - 20600Hz
- 高通滤波器斜率：Bessele, Butterworth, Link Riley
- 低通滤波器斜率：Bessele, Butterworth, Link Riley
- 均衡器复位
- 均衡器旁通

### 2 图形均衡器

5个带均衡器的HPF、LPF和GAIN、频率和Q值可以调节。

- 增益：-24dB - +12dB
- 频率：10.5Hz - 20600Hz
- Q：0.4 - 128





### ① 设置最大音量和初始音量

- 音乐起始音量：0 - 84%
- 话筒起始音量：0 - 84%
- 效果起始音量：0 - 84%
- 音乐最大音量：0 - 84%
- 话筒最大音量：0 - 84%
- 效果最大音量：0 - 84%

### ② 系统密码

通过输入密码“123456”，可以通过管理者权限登录。管理员可以锁定设置，使得其不能改变。

### ③ 语言切换

可以切换英文和中文。

### ④ 储存模式

可将各种设置保存在硬件存储器中。  
可以调用保存的设置。设定的名字可以自由变更。

### ⑤ 更改密码

可以设置新密码。请输入当前密码后输入新密码。

### ⑥ 开机模式

可以在启动系统时选择设置模式

### ⑦ 保存到电脑

可以将各种设置保存在电脑上。可以调用保存的设置。  
设定的文件夹名称可以自由变更。扩展名是“.jib”

- 保存模式到电脑：可以用任意的名字保存在电脑上
- 删除电脑保存的模式：删除电脑上记载的文件
- 上传模式到设备：将保存在电脑上的设定复制到硬盘上

## 故障分析处理

如感觉有故障请根据以下方法检查。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                                              |
|------------------------|------------------------------------------------------------|---------------------------------------------------|
| 不通电                    | ● 电源线没有插好。                                                 | ● 请插好电源插头, 将旋钮调整到适当位置。                            |
| 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。<br>● 输入信号选择不正确。<br>● 输出线与功率放大器的连接不正确。 | ● 调节适当的音量。<br>● 请选择正确的音源信号。<br>● 修正输出线与功能放大器间的连接。 |
| 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。<br>● 麦克连接线有划伤损坏。<br>● 麦克的插头没有连接好。             | ● 打开麦克风开关。<br>● 修理或更换麦克风连接线。<br>● 插好麦克风插头。        |
| 部分声道没有声音               | ● 输入信号连接方法不正确。<br>● 没有声音的声道上连接的音箱线不良。                      | ● 重新连接<br>● 请重新确认音箱线的连接                           |
| 没有视频图像。                | ● 视频输出接口上的插头没插好。<br>● 视频输入接口上的插头没插好。                       | ● 请插好插头。<br>● 请插好插头。                              |
| 没有混响。                  | ● 混响旋钮设定在最小位置。                                             | ● 调整混响旋钮到适当位置。                                    |
| 连接HDMI ARC、没有声音或没有图像显示 | ● HDMI线松动<br>● HDMI线破损                                     | ● 将HDMI线插牢固<br>● 更换HDMI线                          |
| 无线麦克风开关没有反应            | ● 没装入电池<br>● 电池没有电                                         | ● 请放入电池<br>● 更换电池                                 |
| 麦克风有电源但是没有声音           | ● 接收器的音量旋钮是最小状态。<br>● 接收器和麦克风的频道不同。                        | ● 打开接收器的旋钮<br>● 设定频道。                             |

## 产品规格

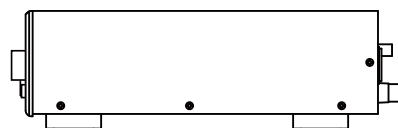
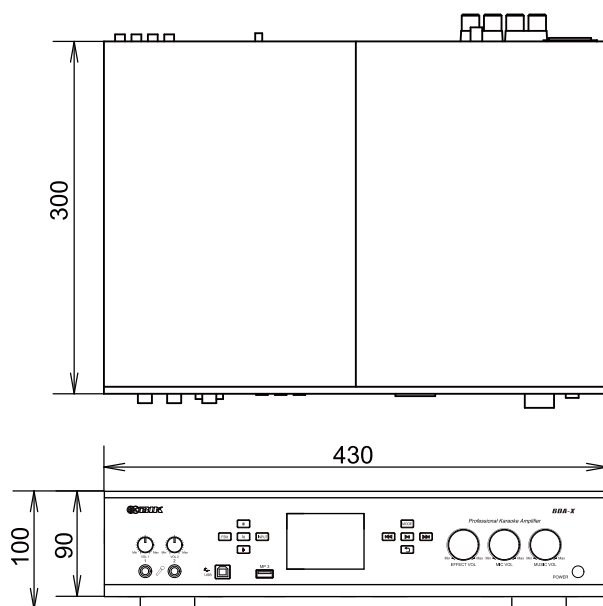
### BDA-X31

|                    |                                          |
|--------------------|------------------------------------------|
| 最大输出功率             | 230W + 230W / 8 欧姆<br>350W + 350W / 4 欧姆 |
| 失真度 (THD)          | ≤ 0.5%                                   |
| 信噪比 (S/N)          | 87dB                                     |
| 音箱阻抗               | 4 - 8欧姆                                  |
| 音乐输入灵敏度            |                                          |
| VOD, DVD           | 220mV                                    |
| Optical, Bluetooth |                                          |
| 麦克风输入灵敏度           |                                          |
| MIC-1, MIC-2       | 15mV                                     |
| 录音输出               | 1.6V                                     |
| 中置输出               | 1.6V                                     |
| 超低音输出              | 1.6V                                     |
| 频率响应范围             |                                          |
| 音乐                 | 20Hz - 20KHz ±3dB                        |
| 麦克风                | 20Hz - 20KHz ±3dB                        |
| 均衡器                |                                          |
| 音乐                 | 15频段                                     |
| 麦克风                | 15频段                                     |
| 中置                 | 7频段                                      |
| 超低音                | 7频段                                      |
| 回声                 | 5频段                                      |
| 混响                 | 5频段                                      |
| 音调控制范围             | ±10 pitch                                |
| HDMI ARC           | TYPE A (1个)                              |
| USB 输入             | (1个)                                     |
| 电源部分、其他            |                                          |
| 电源电压               | AC220V - 240V / 50Hz                     |
| 电源功耗               | 300W                                     |
| 外形尺寸 (长×高×宽)       | 430 X 100 X 300 mm                       |
| 净重                 | 8.5 Kg                                   |
| 附件                 |                                          |
| 使用说明书              | 1个                                       |
| 电源适配器              | 1个                                       |
| 红外线接收器             | 1个                                       |
| 蓝牙天线               | 1个                                       |
| 遥控器                | 1个                                       |

### BDA-X33

|                    |                                          |
|--------------------|------------------------------------------|
| 最大输出功率             | 400W + 400W / 8 欧姆<br>500W + 500W / 4 欧姆 |
| 失真度 (THD)          | ≤ 0.5%                                   |
| 信噪比 (S/N)          | 87dB                                     |
| 音箱阻抗               | 4 - 8欧姆                                  |
| 音乐输入灵敏度            |                                          |
| VOD, DVD           | 300mV                                    |
| Optical, Bluetooth |                                          |
| 麦克风输入灵敏度           |                                          |
| MIC-1, MIC-2       | 20mV                                     |
| 录音输出               | 1.6V                                     |
| 中置输出               | 1.6V                                     |
| 超低音输出              | 1.6V                                     |
| 频率响应范围             |                                          |
| 音乐                 | 20Hz - 20KHz ±3dB                        |
| 麦克风                | 20Hz - 20KHz ±3dB                        |
| 均衡器                |                                          |
| 音乐                 | 15频段                                     |
| 麦克风                | 15频段                                     |
| 中置                 | 7频段                                      |
| 超低音                | 7频段                                      |
| 回声                 | 5频段                                      |
| 混响                 | 5频段                                      |
| 音调控制范围             | ±10 pitch                                |
| HDMI ARC           | TYPE A (1个)                              |
| USB 输入             | (1个)                                     |
| 电源部分、其他            |                                          |
| 电源电压               | AC220V - 240V / 50Hz                     |
| 电源功耗               | 700W                                     |
| 外形尺寸 (长×高×宽)       | 430 X 100 X 300 mm                       |
| 净重                 | 10.0 Kg                                  |
| 附件                 |                                          |
| 使用说明书              | 1个                                       |
| 电源线                | 1个                                       |
| 红外线接收器             | 1个                                       |
| 蓝牙天线               | 1个                                       |
| 遥控器                | 1个                                       |

● 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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