⟨⟩Alctron

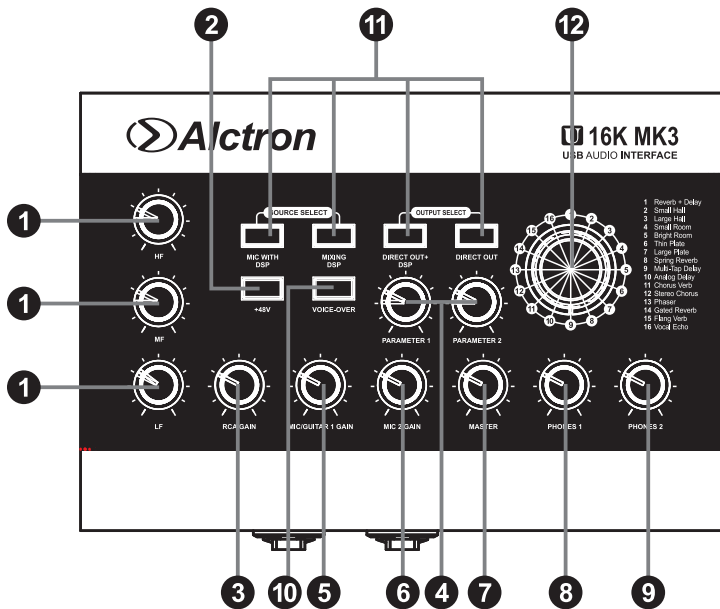# Ⓤ16K MK3

USB音频接口（带DSP功能）
USB INTERFACE WITH DSP

快速连接使用手册
QUICK CONNECTION MANUAL

使用前请务必认真阅读本手册
PLEASE READ THIS MANUAL BEFORE USE

1. HF/MF/LF:通过这三个旋钮分别调节麦克风的高音、中音、低音的均衡指标。

2. +48V :按下按键灯亮，为卡侬口提供48V供电，否则不供电。

3. RCA GAIN:该旋钮在接安卓手机或者MP3唱歌时，调整RCA莲花输入（伴奏）的增益。

4. PARAMETER 1/PARAMETER 2:选定其中一种效果后，通过"DSP参数1"和"DSP参数2"，调节该效果的参数。

5. MIC/GUITAR 1 GAIN:话筒1和吉他增益调节。

6. MIC 2 GAIN:话筒2增益调节。

7. MASTER:仅对连接在Line Out或Stereo Out上的设备音量进行调节。
如：Line Out接音箱时，可通过该旋钮进行音箱的音量调节；手机唱歌时如果有需
要接Stereo Out接口，也会用到它进行音量调节。

8. PHONES 1:耳机1音量调节。

9. PHONES 2:耳机2音量调节。

10. VOICE-OVER:按下灯亮时，开启闪避功能，当麦克风有声音输入时，背景音乐自动衰减。

11. SOURCE SELECT/OUTPUT SELECT:通过按下不同的按键组合，选择不同的工作模式。
例如：音乐模式、唱歌模式、聊天模式、听湿录干模式等等。
说明：
"MIC WITH DSP"按键灯亮，表示对伴奏和话筒声音进行混音，可以唱歌录歌；
"MIXING DSP"按键灯亮，表示对话筒的声音添加混响效果（共计16种）；
"DIRECT OUT+DSP"按键灯亮，即开启监听，这时耳机才能听到声音；
"DIRECT OUT"按键灯亮，表示对您监听到的声音（耳机）添加了混响效果。

12.转动该旋钮，对应上数字表示对应要选择的效果。
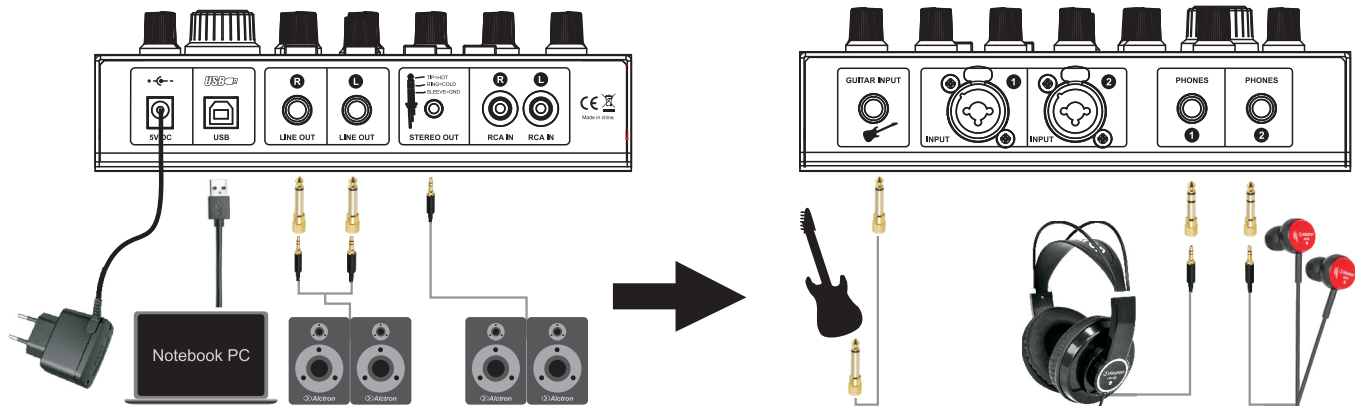
第一步：
插上声卡附送的
专用电源适配器

第二步：
用声卡附送的USB线，
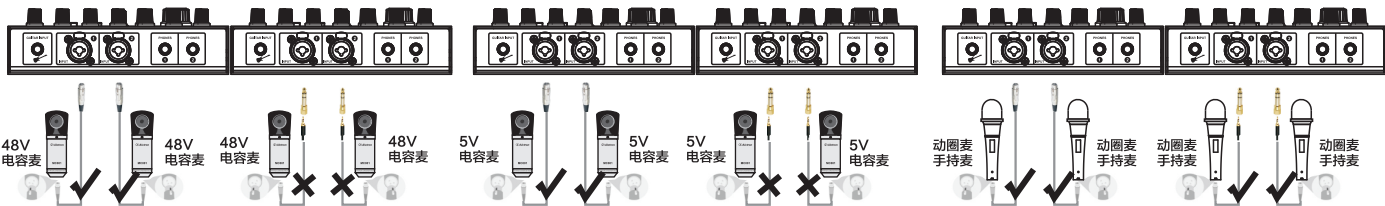接上电脑USB接口

第三步：不使用音箱，可忽略这一步
方法1：音箱音频线接上6.35mm转接头，再接到声卡Line Out
方法2：直接用音箱立体声的音频线3.5mm接头接上声卡
注意：两对音箱同时输入的时候，只有一对音箱能出声

第四步：不用乐器，可忽略这一步
可接多种电子乐器实现录歌伴奏

第五步：
同时接两个监听耳机需用6.35mm
接头或转接头

第六步（一）：48V电容麦
大振膜电容麦克风，需要48V幻象电源供电，因此本文
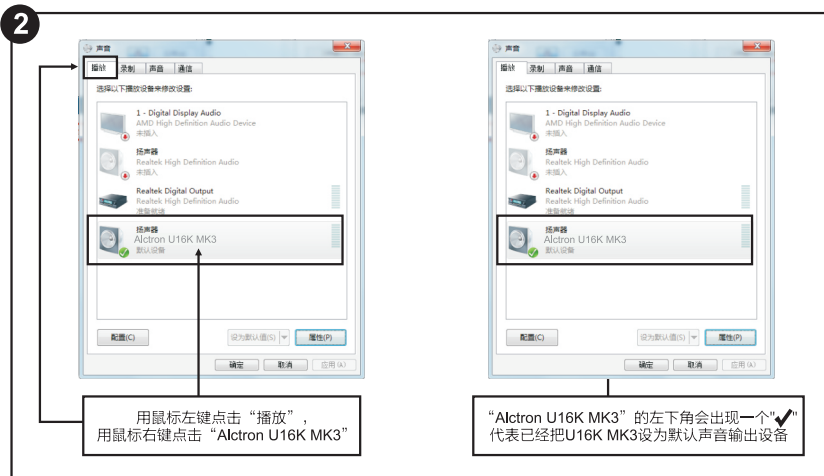统一称之为"48V电容麦"接48V电容麦，需要打开声
卡面板上的"+48V"开关。

第六步（二）：5V电容麦
双卡侬口接5V电容麦时需要打开"+48V"开关（但市面极个别
质量差的麦克风可能会被烧坏）6.35mm接口接5V电容麦时不需
要打开"+48V"，通过电脑USB线供电，但底噪会略大。

第六步（三）：动圈麦、手持麦
双卡侬口接动圈麦或者手持麦（用于电池洪电的麦克风）时，声
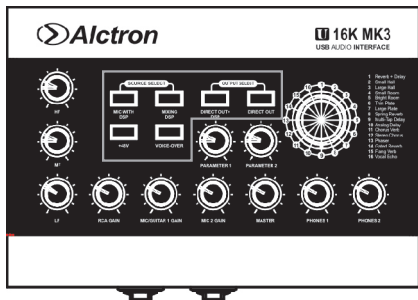卡不需接电源适配器或者关闭"+48V"供电开关，以防止麦克
风被烧坏。

（三）电脑设置

1

用鼠标右键点击电脑桌面右下角的小喇叭

用鼠标左键点击"播放设备"

2

用鼠标左键点击"播放"，
用鼠标右键点击"Alctron U16K MK3"

"Alctron U16K MK3"的左下角会出现一个"✔"
代表已经把U16K MK3设为默认声音输出设备

3

用鼠标左键点击
"录制"，
用鼠标右键点击
"Alctron U16K MK3"

"Alctron U16K MK3"
的左下角会出现一个"✔"
代表已经把U16K MK3
设为默认声音输出设备

（四）电脑设置

电脑唱歌、录歌软件有YY、酷我K歌、酷狗等，这里以YY、酷狗为例介绍如何设置。

第二步：
点击"语音视频"

第三步：
点击"音频设置"

第四步：
把您所使用的软件的麦克风、扬声器的音源选项设置为"Alctron U16K MK3"

第五步：
按"确定"后，切记必须重启YY软件，也就是在电脑桌面右下角任务栏，鼠标右键点击YY程序图标，并选择退出后，再重新启动YY软件。其他软件的设置也类似，如酷狗、酷我K歌等。

第一步：
点击"设置"按钮

第二步：
点击图标符号选择"设置"

第四步：
点击箭头处，选择Alctron U16K MK3

第三步：
选择"音效设置"

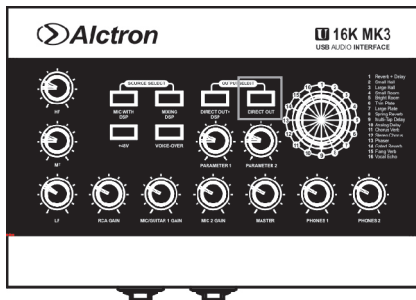第五步：点击应用确定，重启"酷狗"软件，即在电脑桌面右下角的任务栏，右键点击"酷狗"图标，并选择退出，再重启"酷狗"软件。
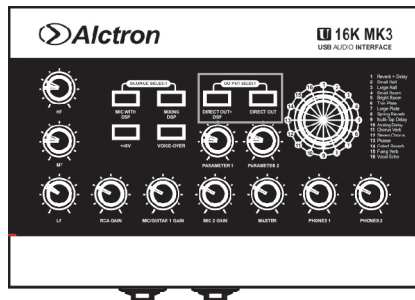
第一步：
关闭酷狗的音效（蝰蛇音效）

❶ 音乐模式：所有按键都不按下

听音乐，欣赏电影，请注意此模式下不能进行语音K歌，话筒声音在耳朵是听不到的，所以请不要觉得声卡或者话筒有问题。
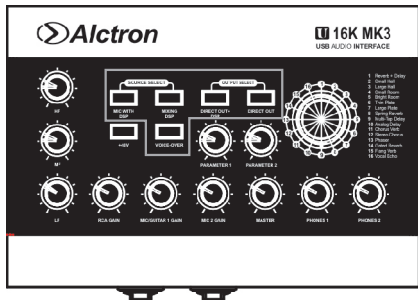

❷ 聊天模式：仅需按下直接监听

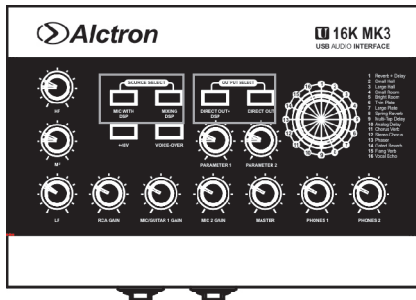语音通话对讲，此模式呈现的声音不带有任何附加效果，对方听见的是您的原始干声

❸ 听湿录干模式：按下直接监听和DSP效果
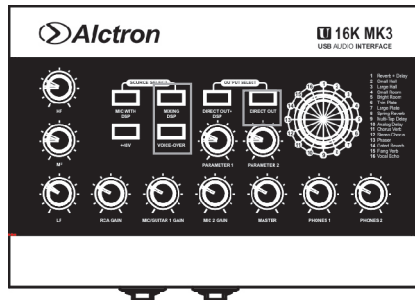
自己监听到的声音是具备混音效果的，而网络对方（或者本地录制）听到的声音则是未经过处理的干声。

❹ 喊麦模式：按下输入控制、输出控制和闪避

喊麦模式下，可尽情的喊麦，人声的混音和高、中、低音处理，让您轻松做DJ
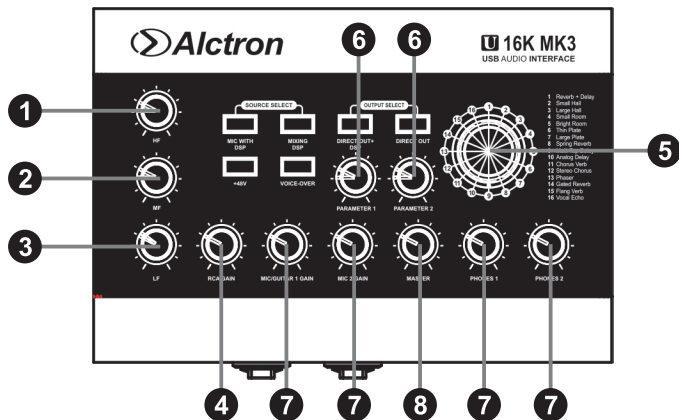

❺ 唱歌模式：按下直接监听、DSP效果、DSP混音

唱歌模式下，自己监听到声音和网友以及本地录制的声音都带有混响效果，人声与伴奏混音成歌曲。
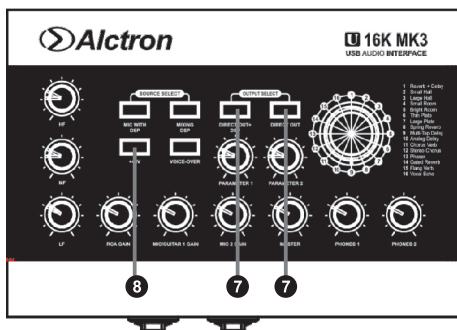

❻ 主持模式：按下直接监听、DSP混音、闪避

相比喊麦模式，主持模式的人声不加任何效果。

1 声音的"高音"旋钮一般调整到12点钟左右位置为佳

2 声音的"中音"旋钮一般调整到8-9点钟左右位置为佳

3 声音的"低音"旋钮一般调整到8点钟左右位置为佳

4 当使用安卓手机K歌录歌时，此旋钮，用于调节伴奏音量，一般情况旋钮调至12点钟位置为佳

5 唱歌录歌：一般可选择1-7号混响效果，当然其他混响也可根据需要使用

6 DSP参数一般调至10-13点钟位置为佳

7 麦克风增益旋钮、耳机音量旋钮，一般调整到12-15点钟位置为佳

8 手机唱歌时，该旋钮也可调整麦克风音量，一般调整到12点钟附近为佳

（七）手机唱歌录歌按键说明

7 接手机唱歌录歌时，按下DSP效果和监听开关

8 声卡连接需要幻想电源供电的话筒时才能开启该按键

（八）麦克风接口标准
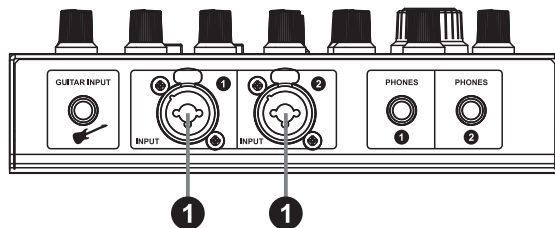
1 48V开关打开，两个卡侬口均替代+48V供电.

1 48V开关关闭，两个卡侬口均不供电.

1 6.35mm接口不供电平衡输入，可接动圈麦

1 6.35mm接口5V供电可接5V电容麦，但底噪会比接卡侬口时略大

（九）安卓手机接连方法

1. 用安卓手机唱歌时，按下直接监听、DSP效果、DSP混音；
2. 话筒音量通过对应的话筒增益旋钮以及总音量；
3. 耳机监听音量通过对应的耳机音量旋钮调节；
4. 伴奏音量通过声卡"RCA输入增益"旋钮调节；
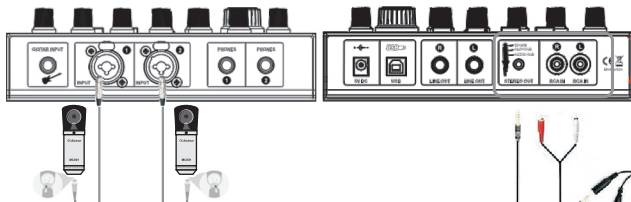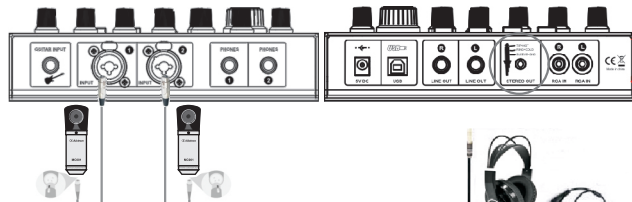5. 关闭手机唱吧等唱歌软件里的"混响特效"，选择"原音"；
6. 请你确保手机的物量音量键（手机上的"+－"键）音量调到最大或者接近最大；
7. 如果使用电容式麦克风，嘴与话筒的距离保持15cm或以上，防止喷麦或者声音断断续续。

（十）手机唱歌录歌按键说明

1. 用苹果手机唱歌时，"混音"按键不需要按下（切记）；
2. 话筒音量通过对应的话筒增益旋钮以及总音量；
3. 耳机音量、伴奏音量均通过手机调节；
4. 关闭手机唱吧等唱歌软件里的"混响特效"，选择"原音"；
5. 请你确保手机的物理音量键（手机上的"+－"键）音量调到最大或者接近最大；
6. 如果使用电容式麦克风，嘴与话筒的距离需保持15cm或以上，防止喷麦或者声音断断续续。

（十一）使用故障排除

1. 麦克风无声音
处理办法：（1）对应的麦克风音量、耳机音量是否都已调整到合理位置；
（2）确认麦克风和耳机质量是否正常；
（3）48V大震膜电容麦须使用平衡卡侬公母线，声卡须接上电源适配器，并按下48V开关供电；
（4）5V电容麦克风的6.35mm接口，不需要开48V开关；
（5）动圈麦需接麦克风的6.35mm接口（或者接双卡侬线，并关闭48V开关）；
（6）声卡面板上的"监听开关"没有打开（音乐模式下只能听歌，无法听到麦克风声音），请打开"监听开关"。
2. 唱歌模式无混响效果或者效果不理想
处理办法：（1）请同时按下声卡面板上的"监听效果"、"监听开关"、"输入效果"和"混音"按键（但接手机唱歌时不需要按下"混音"按键）；
（2）请调整声卡面板上的"DSP参数1"和"DSP参数2"，以达到较理想效果；
（3）电脑可能有其他内置麦克风的设备未关闭（如摄像头或笔记本自带的麦克风），请禁用这些内置的麦克风以免造成冲突；

3. 音效频段不理想
处理办法：请转动面板上的高、中、低频独立调节旋钮至较理想效果。
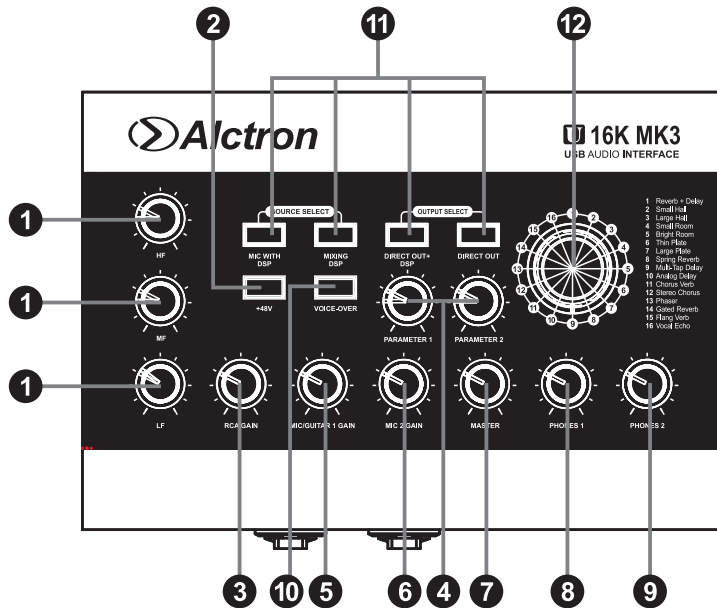**4. 接音箱无声音**
处理办法：请调整面板上的"总音量"旋钮。
5. 接手机唱歌无声音
处理办法：请调整面板上的"总音量"旋钮或者"RCA输入增益"旋钮。
6. 耳机监听麦克风低噪、杂音情况
处理办法：（1）检查麦克风类型和输入接口是否匹配；
（2）检查麦克风对应的音量增益调节旋钮是否过大；
（3）检查没有接麦克风的接口对应的音量增益调节旋钮是否调到最小位置。

1. HF/MF/LF: through 3 buttons separately to adjust microphone's high、 mid、low sounds' balanced index.

2. +48V: to press the button, the light will light up, providing 48V power to XLR, otherwise no power supply.

3. RCA GAIN: when connecting this button to Android or MP3, adjust the gain of RCA.

4. PARAMETER 1/PARAMETER 2: after selecting one of effect, through "DSP parameter 1" and "DSP parameter 2" to adjust the parameters' effect.

5. MIC/GUITAR 1 GAIN: MIC 1 and guitar gain adjust.

6. MIC 2 GAIN: MIC 2 gain adjust.

7. MASTER: only adjust the equipment which connect to the Line Out or Stereo Out. For example, when connecting Line Out to the loudspeaker, through this button you can adjust volume; when singing if it needs to connect Stereo Out connector, it also can adjust volume.

8. PHONES 1: headphone 1 volume adjust.

9. PHONES 2: headphone 1 volume adjust.

10. VOICE-OVER: to press the button, the light will light up, it means you turn on the dodge function. When sound beginning into microphone, the background music will reduce automatically.

11. SOURCE SELECT/OUTPUT SELECT: press the different button to choose the different working mode. Eg. Music mode, singing mode, chatting mode and other mode.
"MIC WITH DSP": press the button, light lit, it indicating mixing the accompaniment and mic voice.
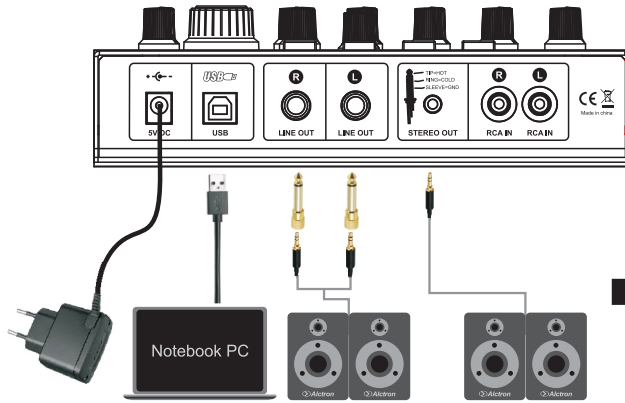"MIXING DSP": press the button, light lit, it indicating add the mixing mode into mic.
"DIRECT OUT+DSP": press the button, light lit, it indicating monitoring and headphone can hear the sound.
"DIRECT OUT": press the button, light lit, it indicating add mixing mode into monitor.

12. To switch the button to relative position to choose the ideal mixing mode.

TWO: USING STEPS

STEP 1:
Plug power adapter which come with audio card.

STEP 2:
Connecting the USB cable to computer's USB interface

STEP 3:
If you don't use loudspeaker, please ignore
Method 1: Audio cables connect to a 6.35mm adapter, and then connect to Line Out
Method 2: connecting loud speaker stereo's 3.5mm audio cable to audio card
NOTE: when two pairs of speaker input at the same time just one pair speaker produce sound.

STEP 4:
If you don't use instruments, please ignore
Can connect to many kinds of electronic instruments to realize recording accompaniment

STEP 5:
when connecting to 2 monitoring headphone, we need 6.35mm connector or adapter.
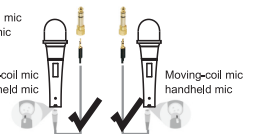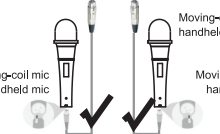
STEP 6(ONE): 48V condenser microphone Large diaphragms condenser mic needs 48V phantom power supply, so we call it "48V condenser microphone". When connecting 48V condenser microphone, you need to open "+48V" switch in audio card.

STEP 6(TWO): 5V condenser microphone When connecting double XLR to 5V condenser microphone, you need to turn on "48V" switch (but the worst quality of microphone can be damaged). When connecting 6.35mm connector to 5V condenser microphone, there is no need for you to turn on "48V", but through USB cable supply, the background noise will be a little bit loud.

STEP 6(THREE): Moving-coil mic, handheld microphone he double XLR connect to moving-coil microphone or handheld microphone (apply to battery powered microphone), audio card don't need to connect to adapter or turn off "+48V" switch, to prevent damaging mic.

THREE: COMPUTER SETTING

1

Using mouse's right button to click trumpet on the bottom right

打开音量合成器(M)

PLAYING EQUIPMENT

录音设备(R)

声音(S)

音量控制选项(V)

Using mouse's left button to click "playing equipment"

2

Using mouse's left button to click "playing", using mouse's right button to click "Alctron U16K Mk3"

"Alctron U16K MK3" on the bottom left will appear "✔"now you setting U16K MKII as default sound output equipment

3

Using mouse's left button to click "recording", using mouse's right button to click "Alctron U16K MK3"

"Alctron U16K MK3" on the bottom left will appear "✔" now you setting U16K MK3 as default sound output equipment.

COMPUTER HAS YY,KUGOO AND KTV SUCH RECORD SOFTWARES. HERE WE TAKE YY, KUGOO AS EXAMPLES TO INTRODUCE HOW TO SET IT.

STEP 2:
Click "voice and video"

STEP 3:
Click "audio setting"

STEP 4:
Setting your microphone speaker's sound source as "USB Audio CODEC"

STEP 5:
After pressing "confirm" you should restart YY software, it is in right bottom taskbar. Using right button to click YY, choosing opt-out, then restart YY. The other software setting is the same as this one, such as KuGoo、 KuWo KTV and so on.

STEP 1:
click "setting"

STEP 2:
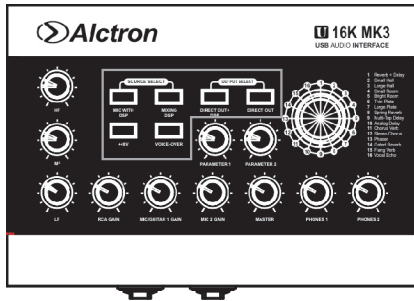Click icon choosing "setting"

STEP 4:
Click arrow choosing USB Audio CODEC

STEP 3:
Choose "sound setting"

STEP 5:
Click application confirm, restart "KuGoo" software, it is in right bottom taskbar. Using right button to click "KuGoo", choosing opt-out, then restart "KuGoo".
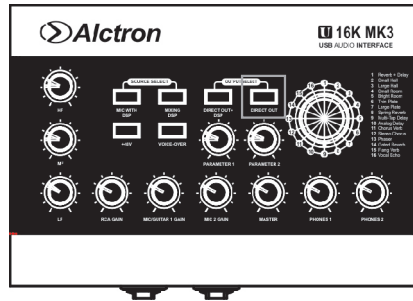
STEP 1:
Turn off the sound of KuGoo (viper sound)

1 MUSIC MODE: no need to press any button

When you are listening to music or enjoying movie, you can't sing. You can't hear the sound of microphone, so do not think there is something wrong in audio card or microphone


2 CHATTING MODE: just need to press direct monitoring

Voice communication, under this mode the sound without any attached additional effect, what people hearing is your original voice
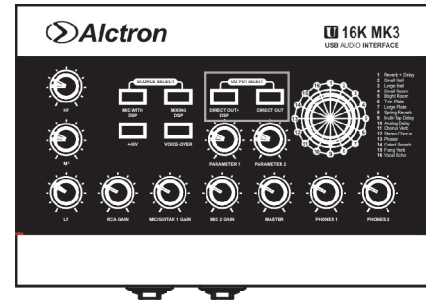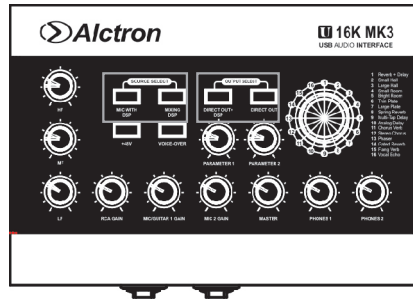

3 SOFTWARE MONITORING MODE: press direct monitoring and DSP effect

The sound you monitoring is mixing but the other people hearing (or local recording) hearing is your original sound.
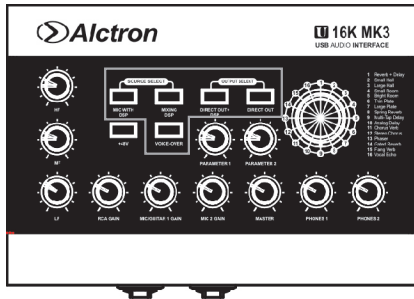

4 LOUD MODE: press input control、output control and dodge

Under loud mode, you can enjoy the microphone, the mixing voice and dealing with high、mid、low sound which help you to be a DJ easier.

**5 SINGING MODE:** press direct monitoring、DSP effect、DSP mixing

Under singing mode, you and online friends heard the sound with mixing effect, so the same as local recording. Voice and accompaniment are mixing as a song.
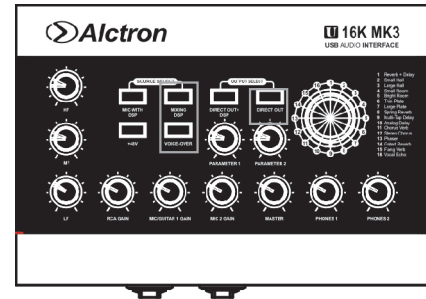
**6 HOSTING MODE:** press direct monitoring、DSP mixing、dodge

Compared with loud mode, the voice under the hosting mode without any attached effect.

# SIX: THE GUIDANCE OF SINGING AND RECODING IN COMPUTER AND MOBILE PHONE
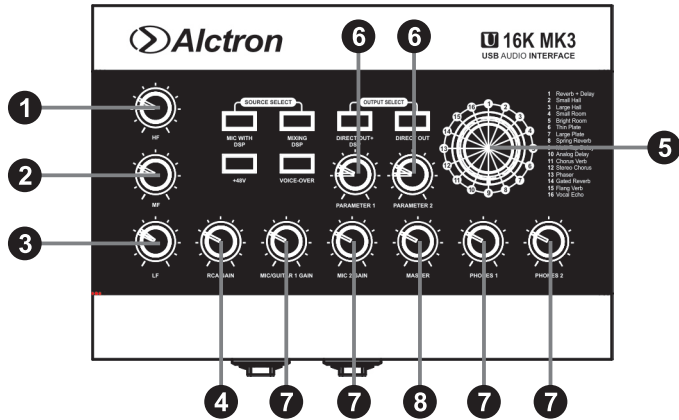
1 General speaking, it is best to adjust "high voice" button to the position around 12 o'clock.

2 General speaking, it is best to adjust "mid voice" button to the position around 8-9 o'clock.

3 General speaking, it is best to adjust "low voice" button to the position around 8 o'clock.

4 When using Android mobile phone to recording, this button just for you to adjust the volume of accompaniment. General speaking, it is best to adjust button to the position of 12 o'clock.

5 Singing and recording: generally you can choose NO.1-7 mixing effect. Of course if it is needed, you can choose other mixing.

6 General speaking, it is best for you to adjust the position of DSP parameter around 10-13 o'clock.

7 Microphone gain, headphone volume , generally it is best for you to adjust the position around 12-15 o'clock.

8 When singing on mobile phone, this button can adjust the volume of microphone. General speaking, it is best to adjust the position around 12 o'clock.

## SEVEN: BUTTON INSTRUCTION WHEN SINGING AND RECORDING ON MOBILE PHONE
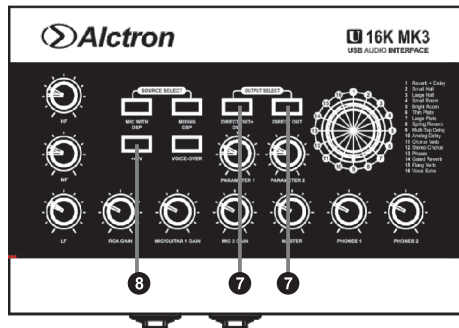
7 When connecting to a mobile phone to sing and record, pressing DSP effect and monitoring switch.

8 Only audio card connect to microphone which supply by phantom power can you turn on the button.

EIGHT: THE STANDARD OF MICROPHONE CONNECTOR
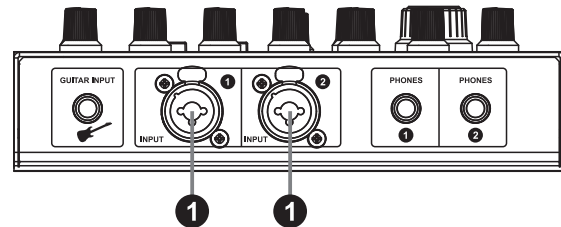
❶ Turn on 48V switch, two XLR both provide +48V power.
❶ Turn off 48V switch, two XLR both provide no power.
❶ 6.35mm connector balanced input without power can connect moving coil microphone.
❶ 6.35mm connector 5V power can connect to 5V condenser microphone, but compared with connecting to XLR the background noise will be a little loud.

NINE: THE METHOD OF CONNECTING TO ANDROID MOBILE PHONE
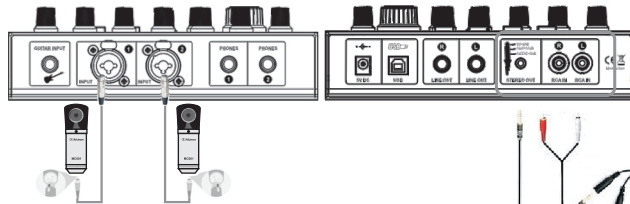
1. When using Android mobile phone to sing songs, press direct Monitoring, DSP effect, DSP mixing;
2. Through microphone gain and master volume to adjust the volume of Microphone;
3. Through headphone volume to adjust headphone's monitoring volume;
4. Through audio card "RCA input gain" to adjust accompaniment's volume;
5. Turn off "reverb effect" in Changba and other singing software, choose "SOLO";
6. Please be sure that adjust volume to max or near max (+/- button);
7. If using condenser microphone, the distance between mouth and microphone should be 15cm or more. Only in this way can prevent spray or sound choppy.

TEN: BUTTON INSTRUCTION WHEN SINGING AND RECORDING ON MOBILE PHONE
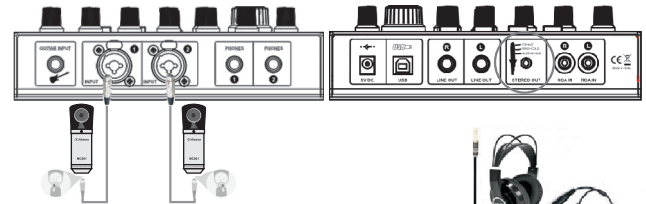
1. When using iphone to sing songs, there is no need for you to press "Mixing" (kindly remember);
2. Through microphone gain and master volume to adjust the volume of microphone;
3. Through mobile phone to adjust the volume of headphone and accompaniment;
4. Turn off "reverb effect" in Changba and other singing software, choose "SOLO"
5. Please be sure that adjust volume to max or near max (+/- button);
6. If using condenser microphone, the distance between mouth and microphone should be 15cm or more. Only in this way can prevent spray or sound choppy.

ELEVEN: TROUBLESHOOTING

1.No sound in microphone
Dealing method
(1) to check if corresponding microphone volume and headphone volume adjust to proper position;
(2) To confirm if microphone and headphone quality are ok;
(3) 48V large diaphragms condenser microphone must use balanced XLR female cable, audio card must connect to power adapter, then pressing 48V switch power;
(4) When connecting to 5V condenser microphone's 6.35mm connector, there is no need to turn on 48V switch; (5) Connecting moving coil microphone to 6.35mm connector (or connecting double XLR cable and turn off 48V switch)
(6) If you don't turn on the switch "monitoring" on audio card (under singing mode only can listening to music, you can't hear the sound of microphone) please turn on "monitoring"

2. Singing mode without mixing or poor effect
Dealing method:
(1) please press "monitoring effect""monitoring switch""input effect" and "mixing" at the same time on audio card (when connecting to mobile phone to sing songs, there is need for you to press the button "mixing")
(2) Please adjust "DSP parameter 1" and "DSP parameter 2" on audio card to achieve ideal effect;
(3) Other internal equipments in computers may not turn off (such as camera or laptop's microphone) please forbid these internal equipments to prevent conflict.
3. Audio frequency is not ideal
Dealing method: please adjust high、mid、low frequency separate button to an ideal effect.

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