

USB 5.1 Channel Audio Adapter

User's Manual

ABOUT THIS MANUAL

This manual is designed for use with the USB 5.1 Channel Audio Adapter. Information in this document has been carefully checked for accuracy; however, no guarantee is given to the correctness of the contents. The information in this document is subject to change without notice. The manufacturer does not make any representations or warranties (implied or otherwise) regarding the accuracy and completeness of this document and shall in no event be liable for any loss of profit or any commercial damage, including but not limited to special, incidental, consequential, or other damage.

SAFETY INSTRUCTIONS

Always read the safety instructions carefully:

- ◆ Keep this User's Manual for future reference
- ◆ Keep this equipment away from humidity
- ◆ If any of the following situation arises, get the equipment checked by a service technician:
 - The equipment has been exposed to moisture.
 - The equipment has been dropped and damaged.
 - The equipment has obvious sign of breakage.
 - The equipment has not been working well or you cannot get it to work according to the User's Manual.

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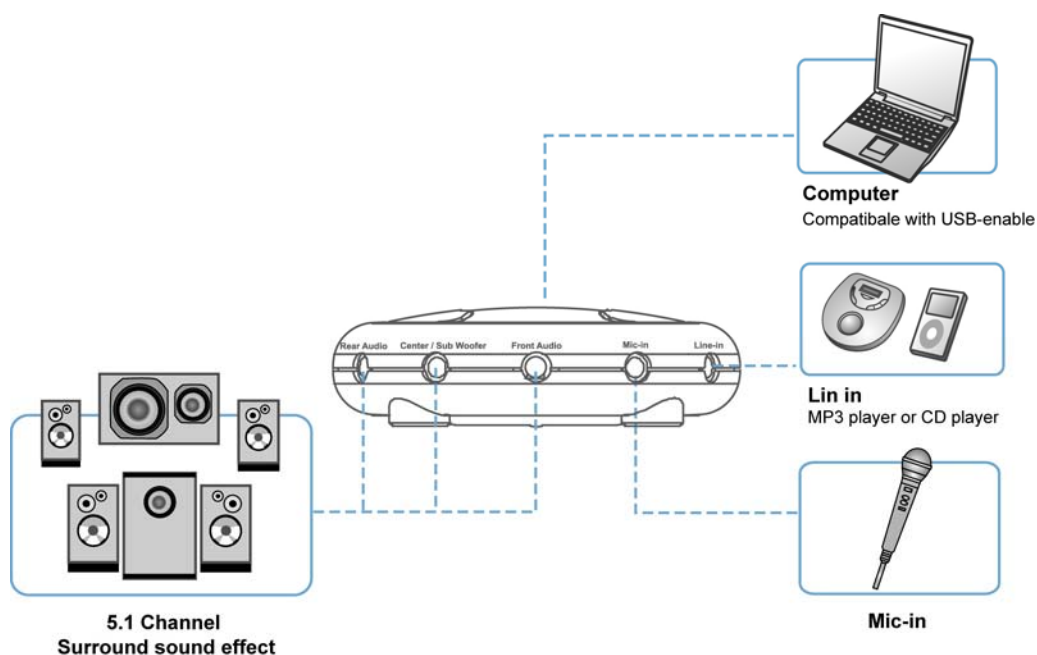
1. Introduction

The USB 5.1 Channel Audio Adapter that provides an amazing audio accessory for any computer with a USB port. It is quipped with standard input and output connectors to add a great stereo input and output performance.

The USB 5.1 Channel Audio Adapter not only combines high quality audio recording and playback capabilities but also allows the connection of most popular audio gear such as microphones, home stereos, musical instruments, and powered speakers to your USB capable computer.

Extra unique driver supports Xear 3D™, makes your games sound better than ever! With fantasy magic voice and karaoke function makes you karaoke party with much joyful and fun. You can also have room size chose and environment sound effect to change the atmosphere. Easily adds stereo 5.1 Channel sound effects to your computers with simply install plug-and-play operation for PC and Mac.

* The extra unique driver supports for Windows XP and Vista OS only, and need to installation when used it.



Features

- ◆ Plug-and-play operation, no drive needed.
- ◆ Small size, convenient and portable
- ◆ USB bus-power, no external power required
- ◆ 5.1 surround sound technology over USB cable
- ◆ Dramatically improve your PC / Computer / Notebook audio quality
- ◆ Auxiliary inputs for microphone, stereo, and other analog sources
- ◆ Volume controlled through your computer or manually on the adapter
- ◆ Full-duplex playback/recording audio stream without sound card in PC
- ◆ Supports suspend/resume and remote wake-up
- ◆ Window Vista™ Premium Level Compliant

Package Contents

- | | |
|---|----|
| ◆ USB 5.1 Channel Audio Adapter | x1 |
| ◆ CD (Driver and User's Manual include) | x1 |
| ◆ Quick installation Guide (Optional) | x1 |

System Requirements

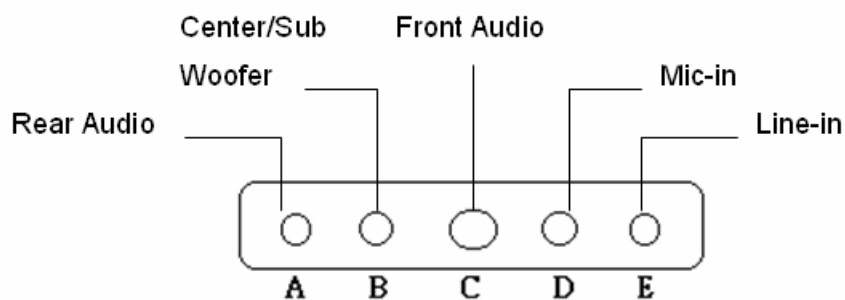
The minimum requirements for the PC are:

- ◆ Intel Pentium III or AMD K6 500 CPU above
- ◆ At least 128MB RAM
- ◆ At least 50 MB hard disk space
- ◆ PC or Mac with one USB port
- ◆ With one of the following operating systems :
 - Windows® 2000, XP and Vista™,
 - Mac OS X v10.x or higher

2. Using the Adapter

How to Use Your Audio I/O Devices

No external driver installed under OS support of Win Vista, Win 2000, Win XP and Mac. Simply plug the USB Audio Adapter Type A Connector into the available USB port of your PC or MAC and get the USB 5.1 Channel Audio effects directly.



1. **5.1 Channel Speaker**

Plug the speaker cable into the speaker/line-out jack (jack A, B, and C) on the USB 5.1 Channel Audio Adapter.

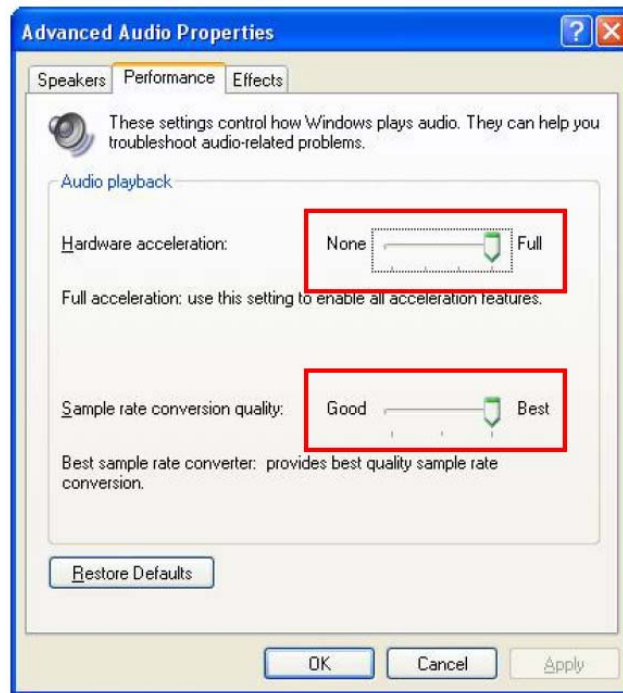
2. **Microphone**

Plug the *MONO microphone* into the Mic-in jack (jack **D**) on the *USB Audio Adapter*.

3. **Stereo Audio Input**

Plug the *STEREO line* into the Line-in jack (jack **E**) on the *USB Audio Adapter*.

4. To enhance your audio performance, set your audio properties to the **full hardware acceleration** and the best **sample rate conversion quality**.



Note :

Some USB Host Controller may have problem with data stream package loss, this will influence output audio data and make some discontinuous sound. But this is very rare.

Sometime, when user plug USB Personal Multi-media Device on PC system and OS cannot auto change audio device to USB audio, please switch the audio device to USB audio sound and audio devices properties in control panel.

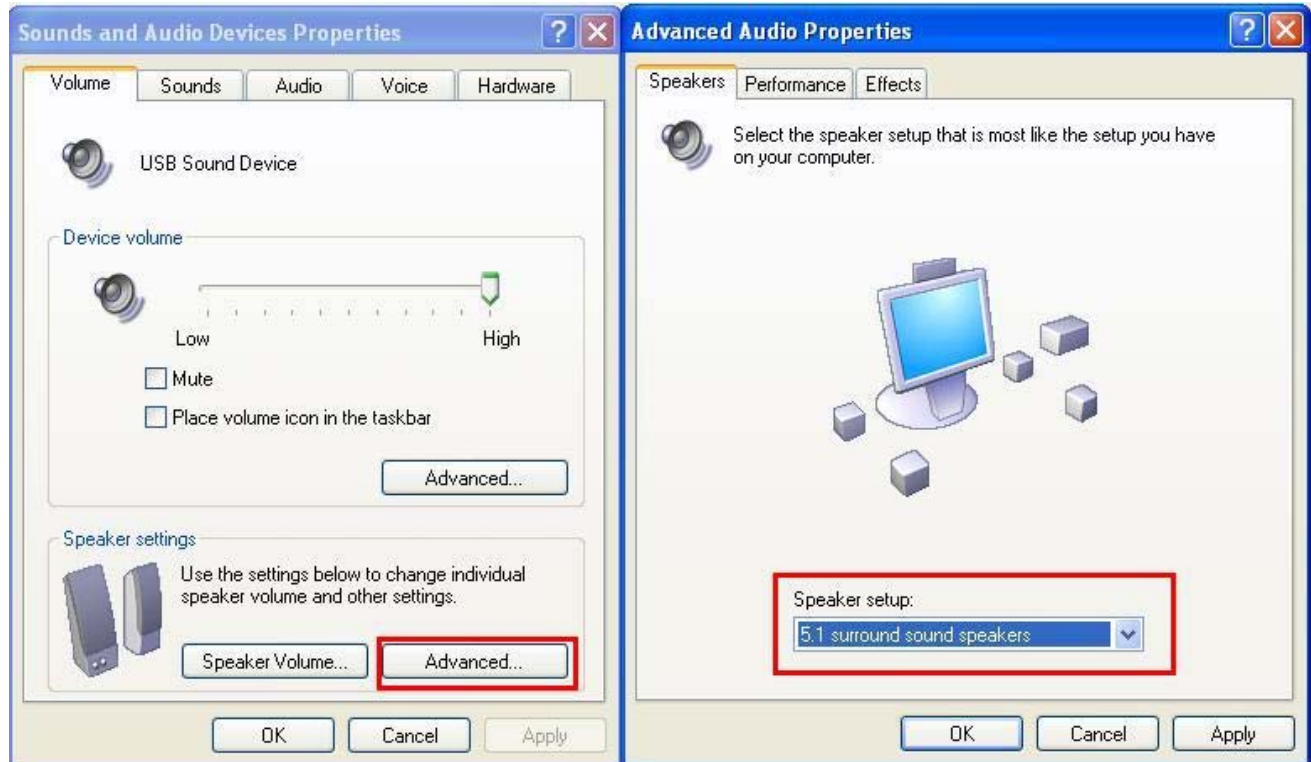


How to Setting 5.1 Surround Sound Speakers

On Windows 2000 and XP

Please follow the steps and finished the 5.1 surround sound speakers setting.

My computer > Control Panel > Sounds and Audio Devices > Volume > Speaker Settings > Advanced > Speaker setup > 5.1 surround sound speakers.

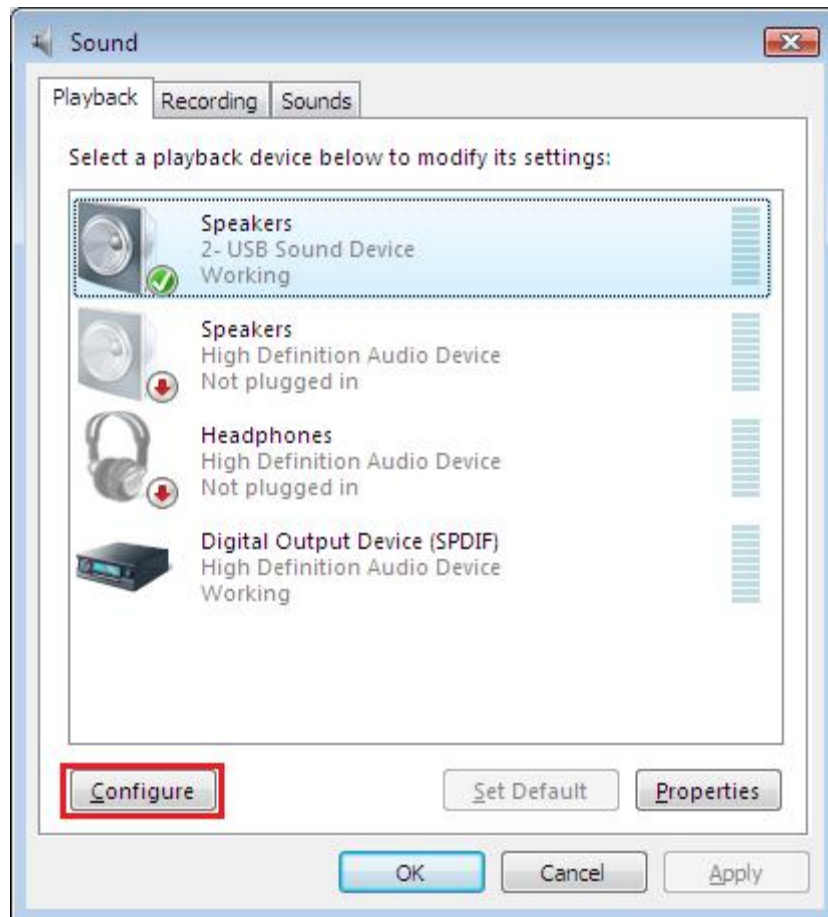


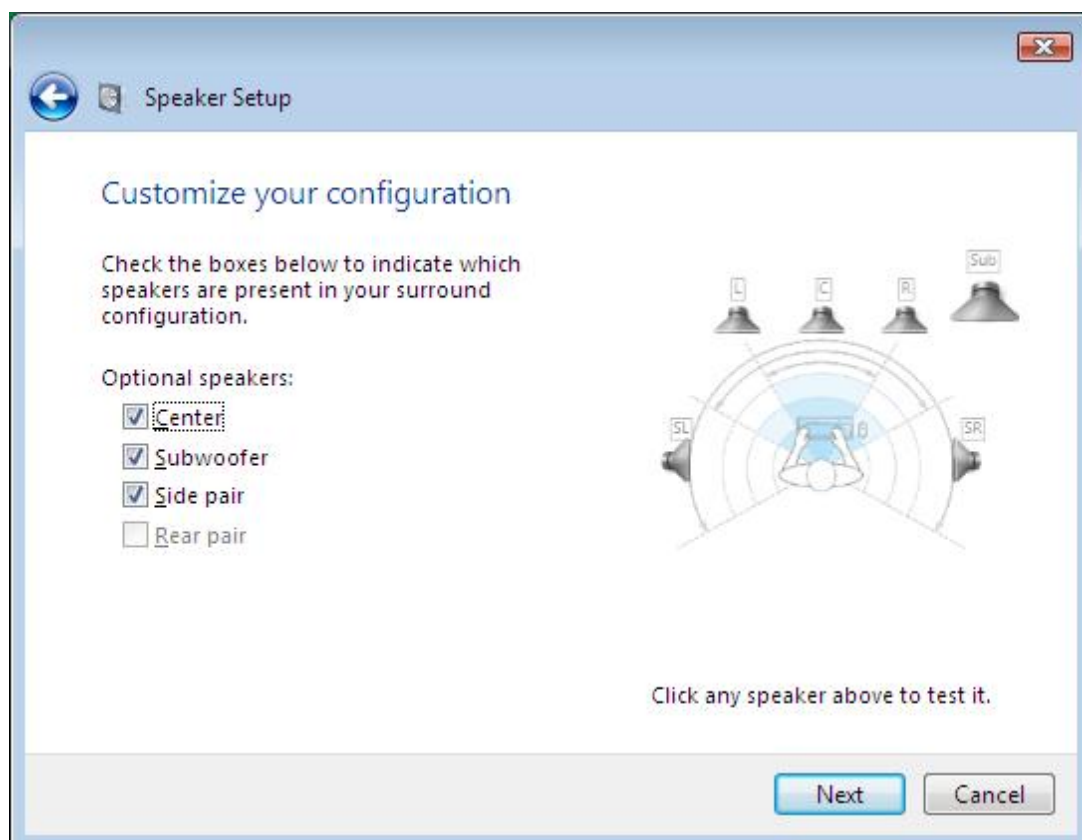
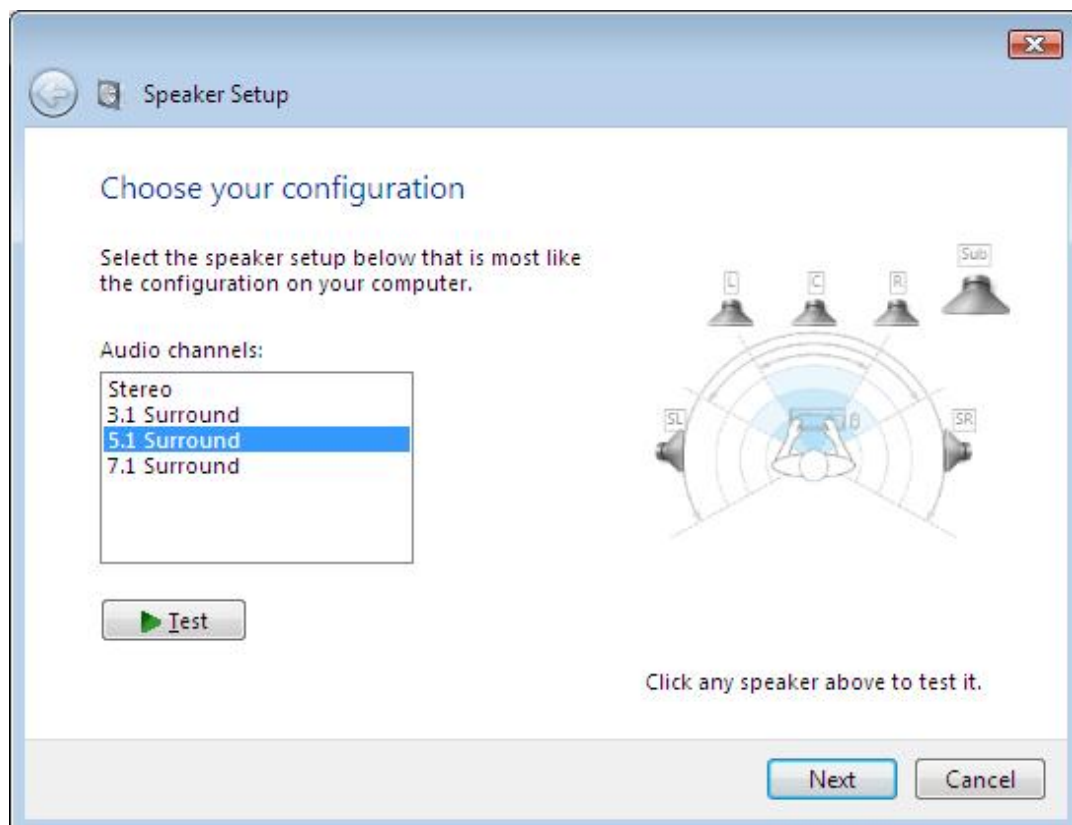
**Actual strings depend on your operation system. These screen shots are from Windows XP and might vary slightly for each operation system.*

On Windows Vista

Please kindly follow the steps and finished the 5.1 surround sound speakers setting.

Settings > Control Panel > Hardware and Sound > Playback > Configure > Speaker setup
> 5.1 surround sound speakers.





On Mac OS X v10.x or higher

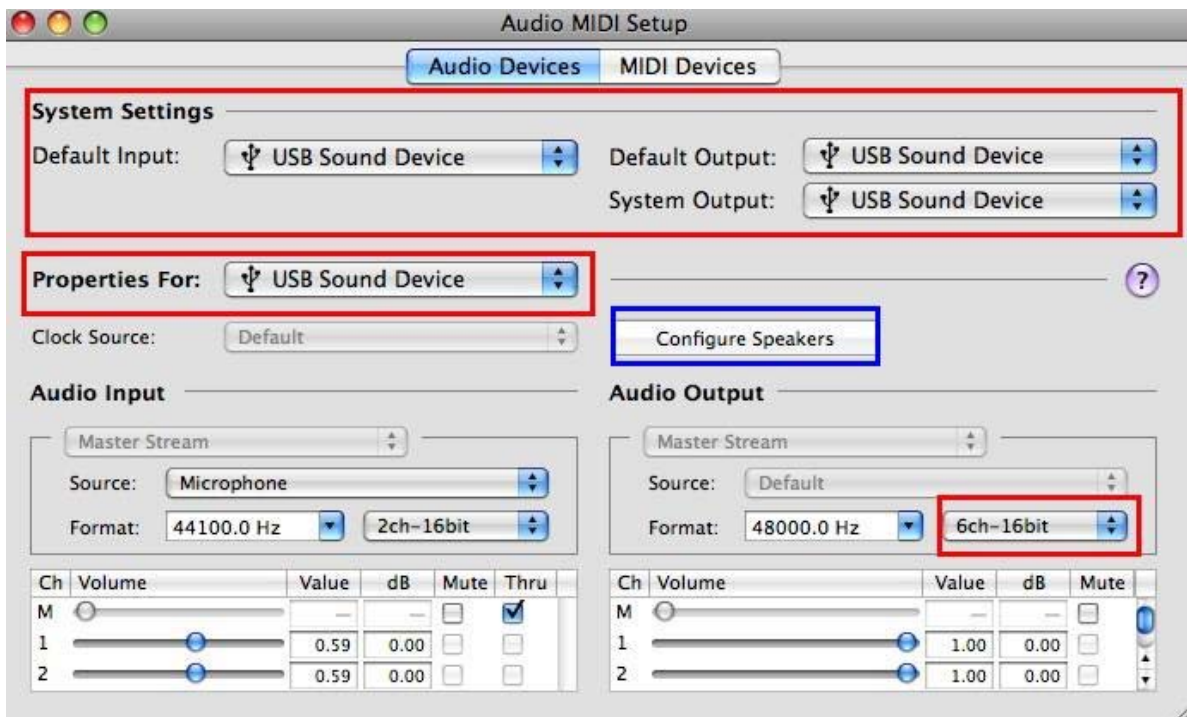
Please kindly follow the steps and finished the 5.1 surround sound speakers setting.

1. Select **Go** first and then chose **Utilities** after, keep select **Audio MIDI Setup** as below screen.

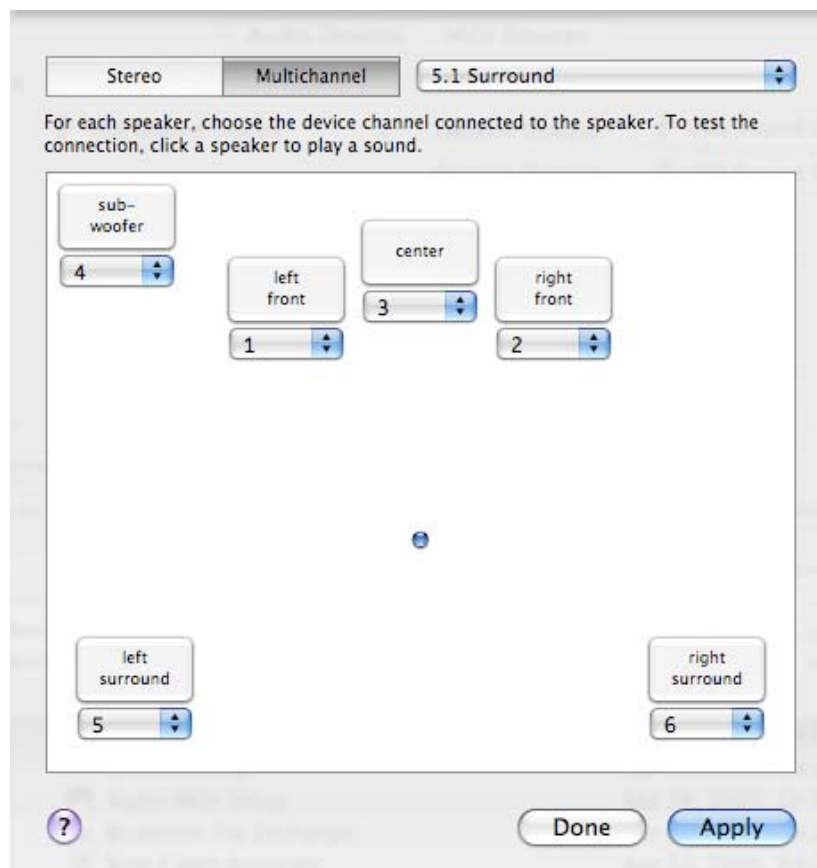


- Under Audio MIDI Setup, open the **Audio Devices**, and make sure you have chose **USB Sound Device** under **System Settings** and **Properties For**. Also please check Audio Output has setting the **Format** : at **6ch-16bit**.

After settings as above, please select **Configure Speakers** and going to next step.



- Select **Multichannel** then chose **5.1 Surround**, and now the setting has finished.



3. Application Software Installation

For Windows XP and Vista only

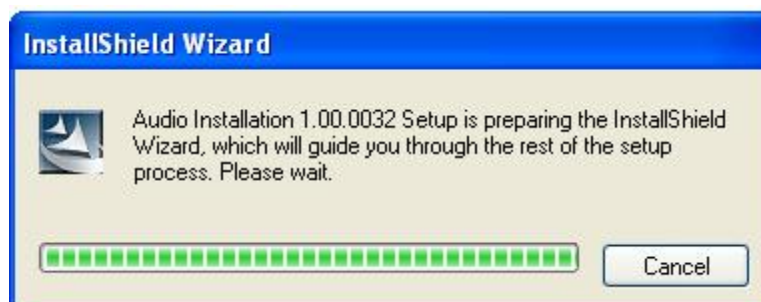
Notice : This application software allows you have extra functions as Karaoke, microphone echo, magic voice, key shifting and vocal canceling...etc. Only support on Windows XP and Vista only.

Connect the adapter first and then follow the procedures below to install the driver.

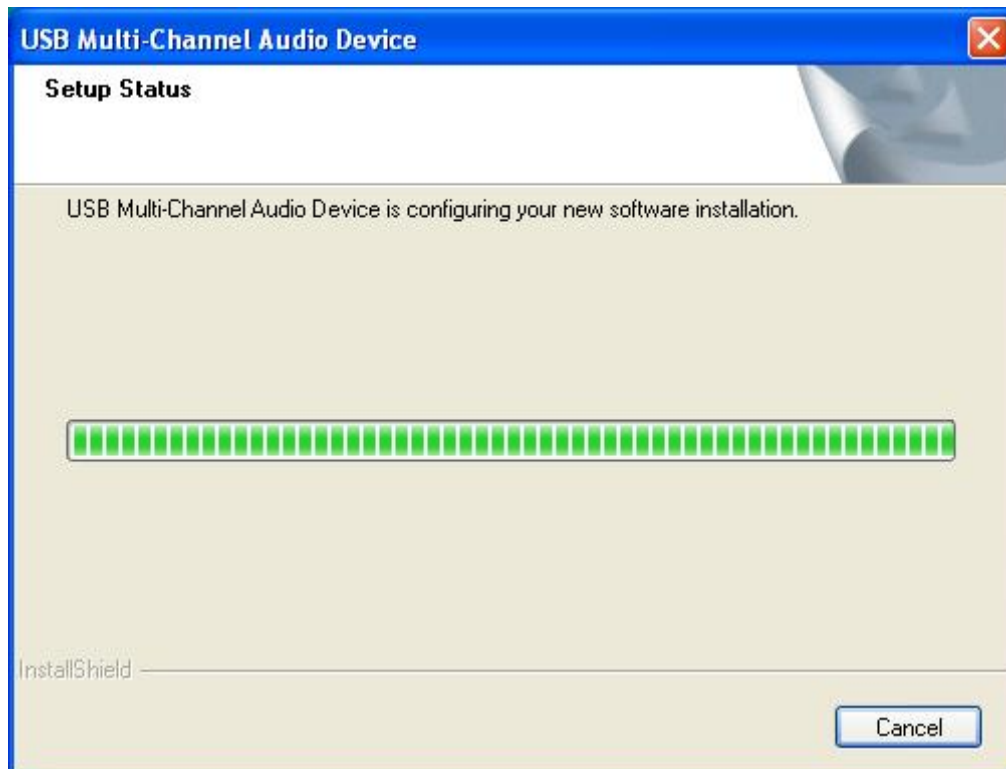
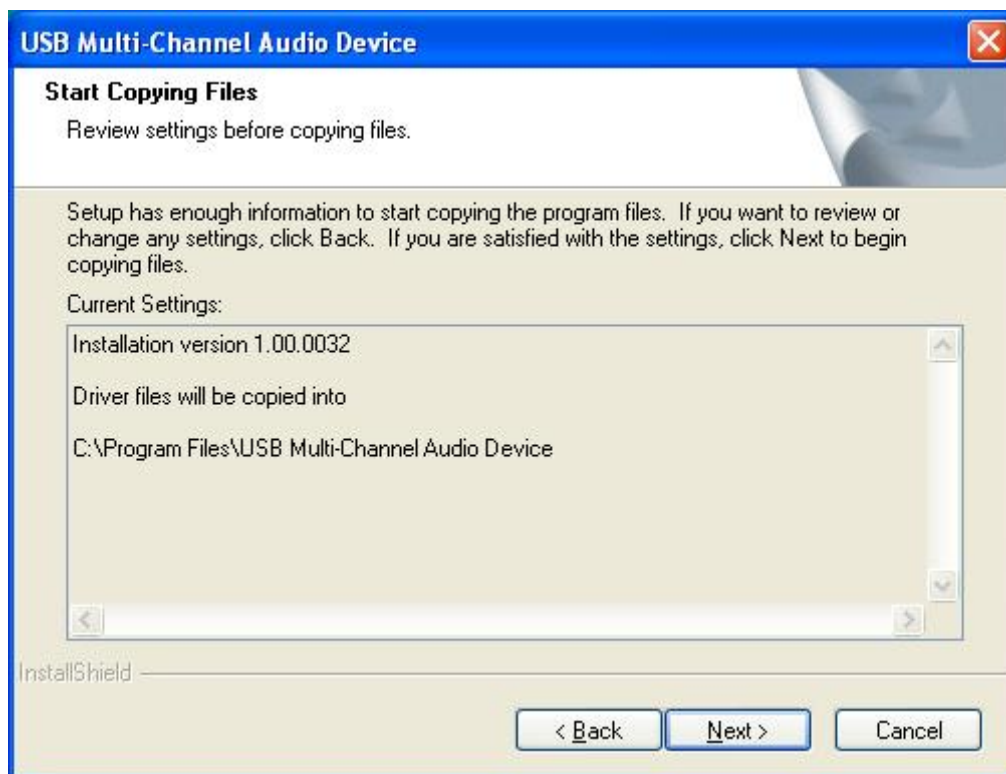
1. Connect the USB 5.1 Channel Adapter to your USB port of computer first, or you may find the screen pop up as below. After correctly connected the adapter, you may find the **USB Audio Device** screen pop in the notification area as below.



2. Insert the provided CD into your disc drive. Locate and double-click the **Setup.exe** file in the Driver folder to launch the setup program.
3. Please follow the steps and process the installation.



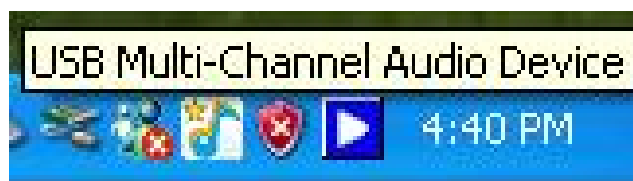
4. When the USB Multi-Channel Audio Device screen appears, Click on **Next**, and you may find the **Setup Status** process automatically as below screen.



5. After USB Multi-Channel Audio Device Driver installation complete, please select Yes, and reboot the computer to effect the driver install.



6. After reboot and system running up again, a pop-up message will appear in the notification area indicating the installation is complete. You may click it to open and for functions control.



**Actual strings depend on your operation system. These screen shots are from Windows XP and might vary slightly for each operation system.*

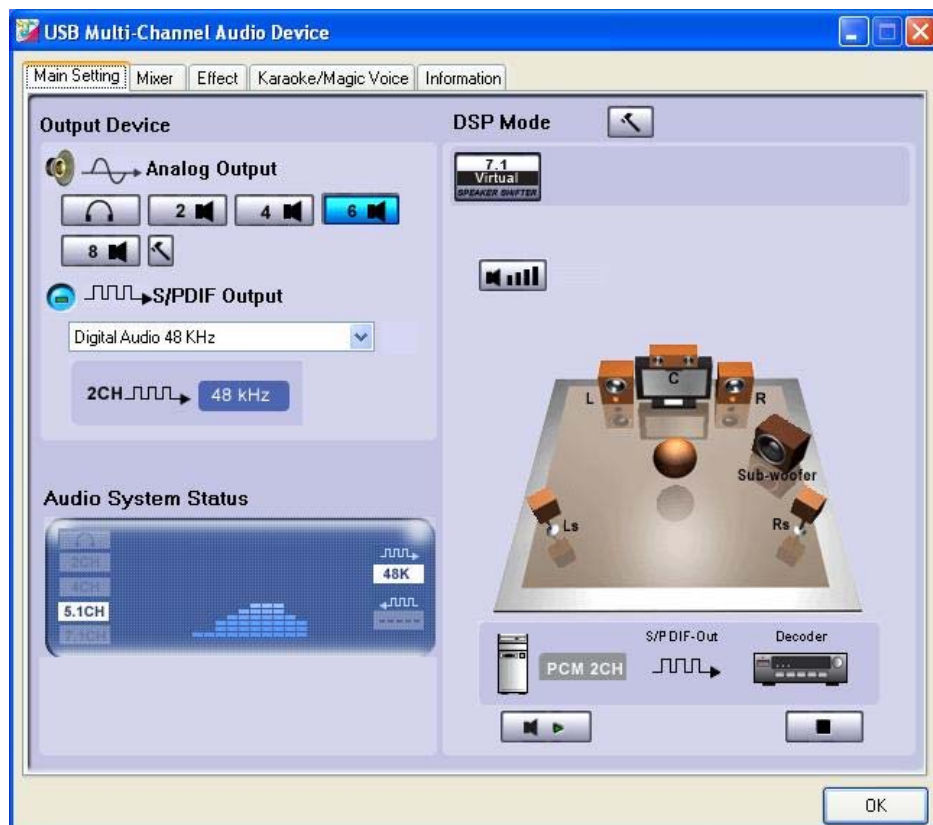
Using Interface and Function Control

This section will show you the using Interface and function control.

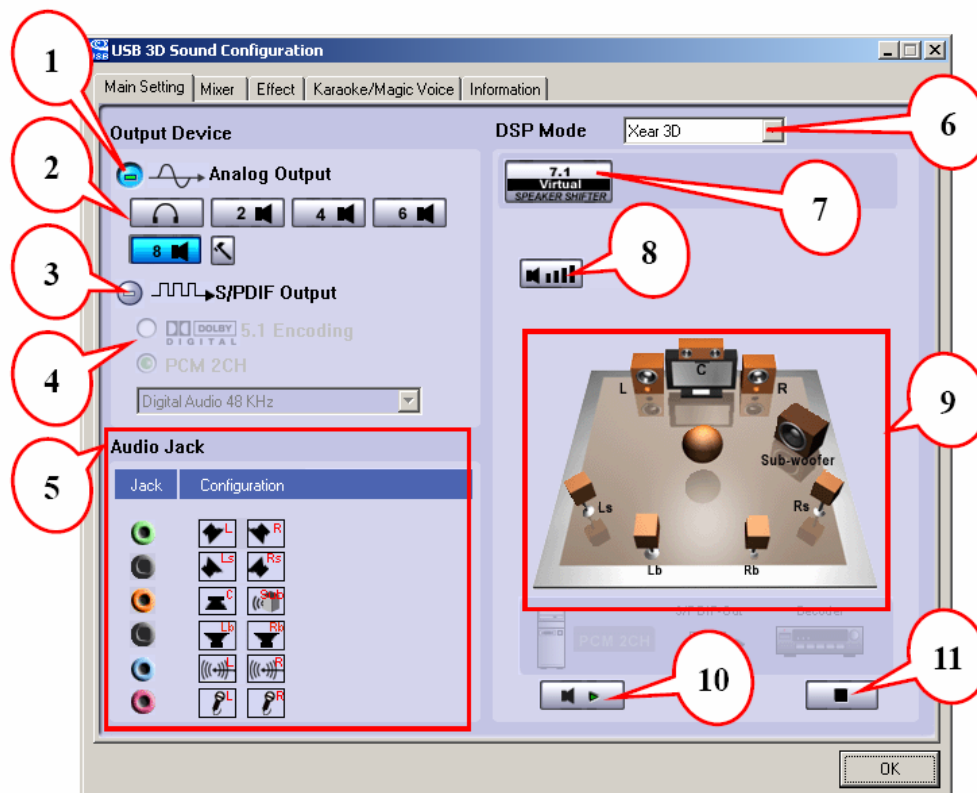


Please **Right click** the **USB Multi-Channel Audio Device icon** to use the function as Volume Control, Windows Media Player, Sound Recorder and Multimedia Properties.

To open the Using interface, please **Left click** the USB Multi-Channel Audio Device icon and select **Open**, or **double click** the USB Multi-Channel Audio Device icon to entry the Using Interface.



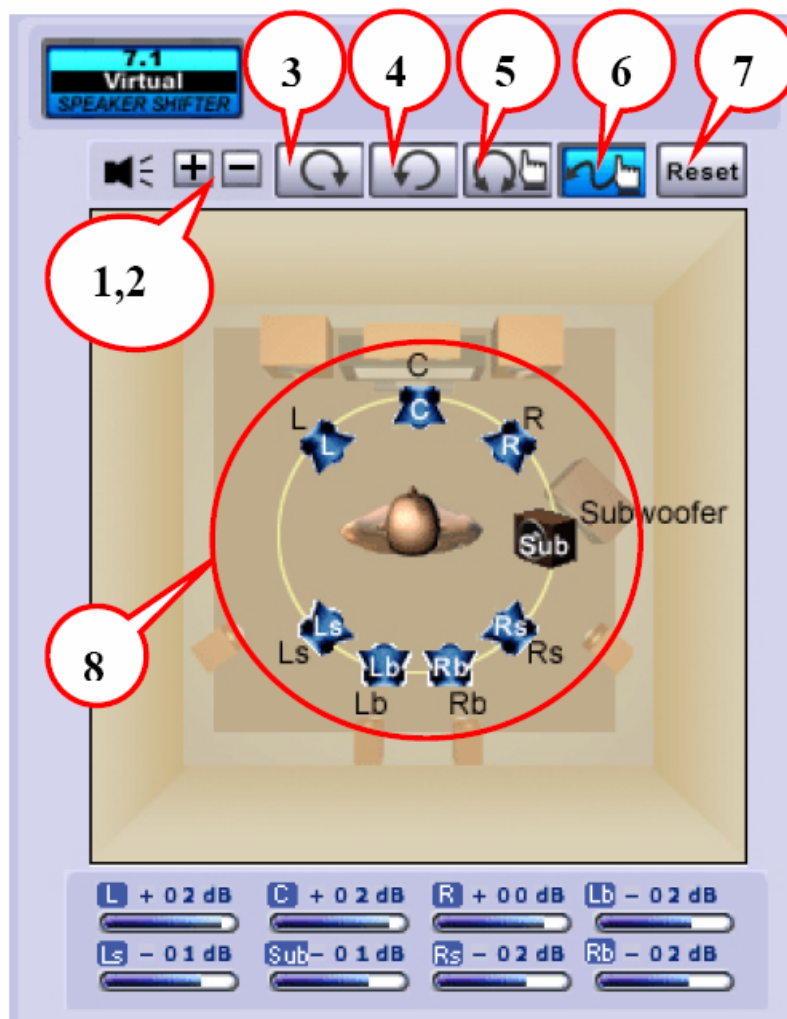
Main Setting



Using Analog Output

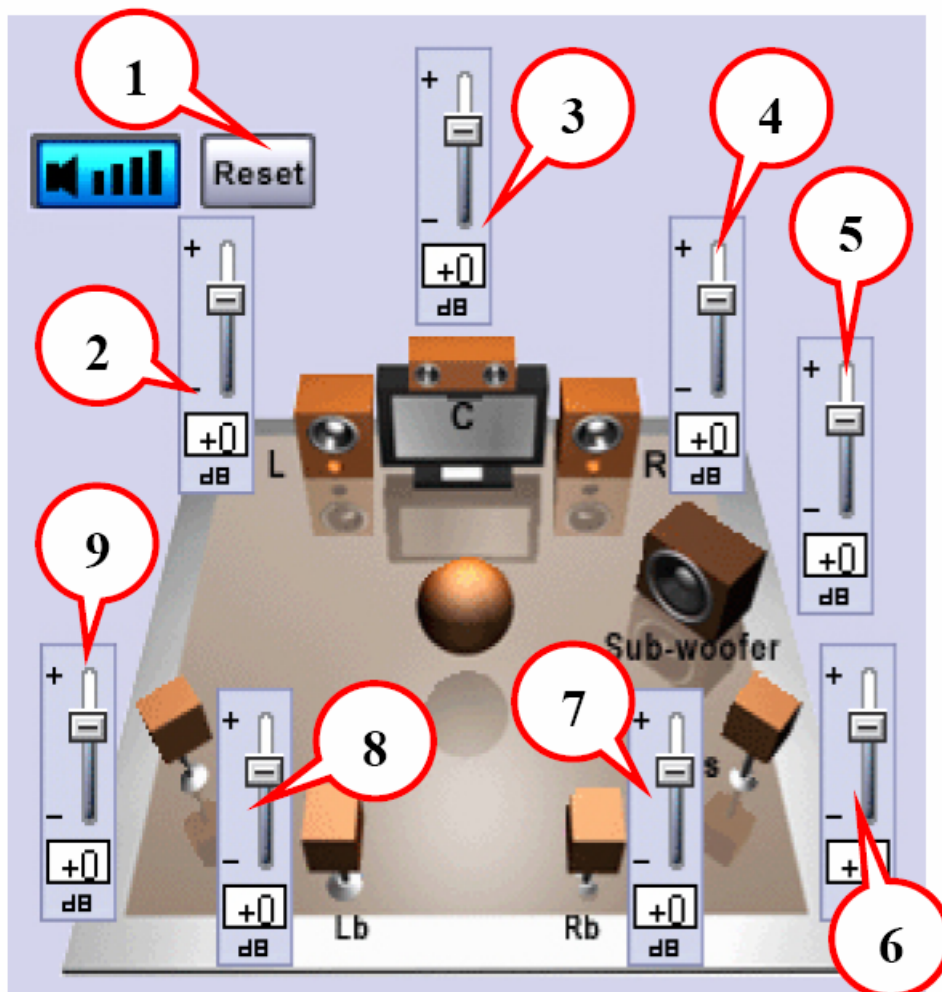
1. **Analog Output** : Turn on this button then can select analog output channels mode.
2. **Analog Output channels Mode** : Earphone, 2CH, 4CH, 6Ch and 8CH for selected.
3. **Digital Output** : Turn on this button then can select SPDIF Out data format.
4. **Digital Output Mode** : Dolby RTCE, PCM for selected.
5. **Audio Jack Connected Display**
6. **DSP Mode** : Pull down to select different DSP Mode. (Default support Xear 3D)
7. **Virtual SPEAKER SHIFTER** : Can open SPEAKER SHIFTER windows for control.
(For detail information see the next page)
8. **Digital Volume Control** : Can open each channel to adjust digital volume. (For detail information see the next page)
9. **Channel Display & Speaker Test** : Can show analog output channel status and directly click speaker graphic can do sound testing.
10. **Auto Sound Test** : Can auto testing every channel sound effect.
11. **Stop Auto Sound Test** : Can stop auto testing.

Virtual Speakers Shifter

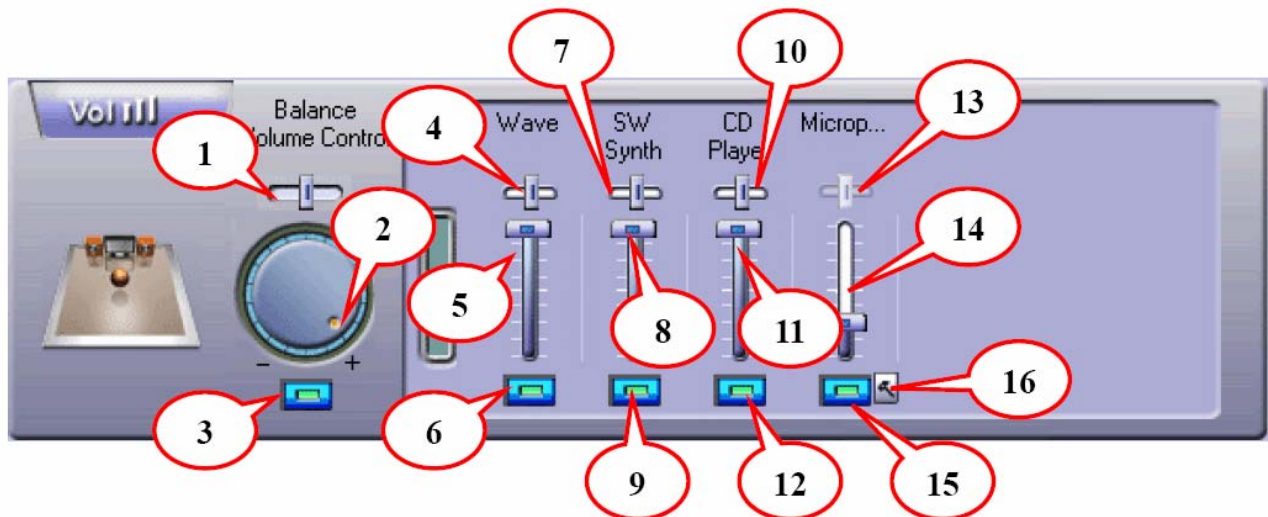


1. Total Volume Up Control
2. Total Volume Down Control
3. Clockwise
4. Counter Clockwise
5. Manual Rotation
6. Manual Shifter
7. Reset
8. Shifter Drag

Digital Volume Control

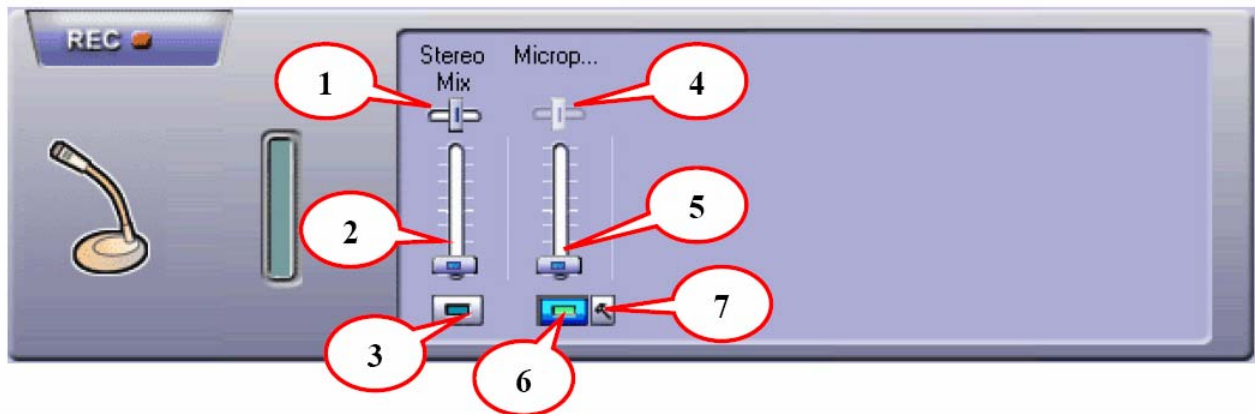


1. Reset Volume
2. Left Channel Control
3. Center Channel Control
4. Right Channel Control
5. Subwoofer Channel Control
6. Rear Right Channel Control
7. Right Back Channel Control
8. Left Back Channel Control
9. Rear Left Channel Control



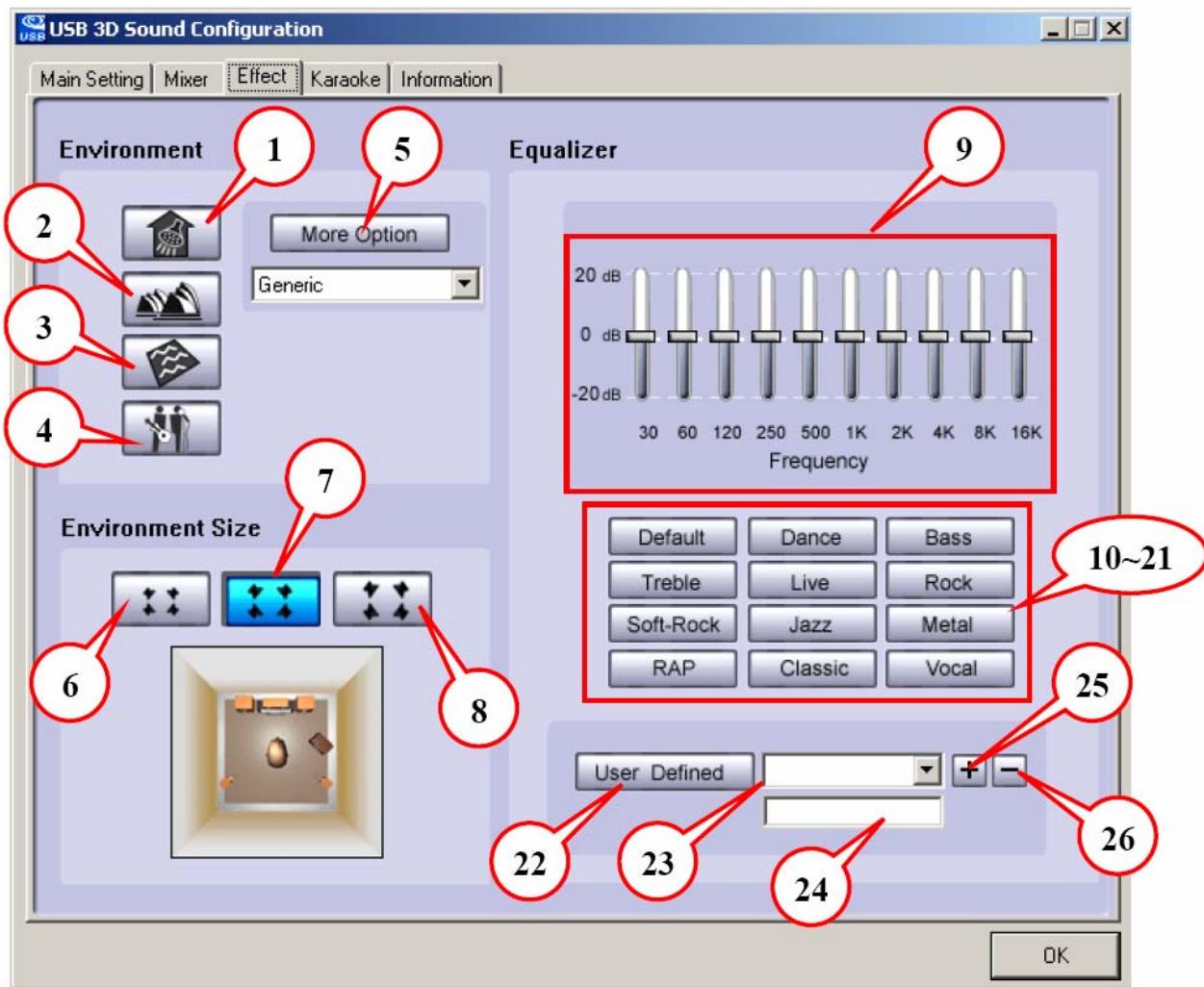
1. Balance Control
2. Volume Up/Down Control
3. Master Volume On/Off
4. Wave Volume Balance
5. Wave Volume Control
6. Wave Volume On/Off
7. SW Synth Volume Balance
8. SW Synth Volume Control
9. SW Synth Volume On/Off
10. CD Volume Balance
11. CD Volume Control
12. CD Volume On/Off
13. Microphone Balance
14. Microphone Control
15. Microphone On/Off
16. Microphone Advanced Setting

Recording Volume Control



1. **Stereo Mixed Balance Control**
2. **Stereo Mixer**
3. **Stereo Mixer**
4. **Microphone Record Balance**
5. **Microphone Record Volume Control**
6. **Microphone Record On/Off**
7. **Microphone Record Advanced Setting**

Effects

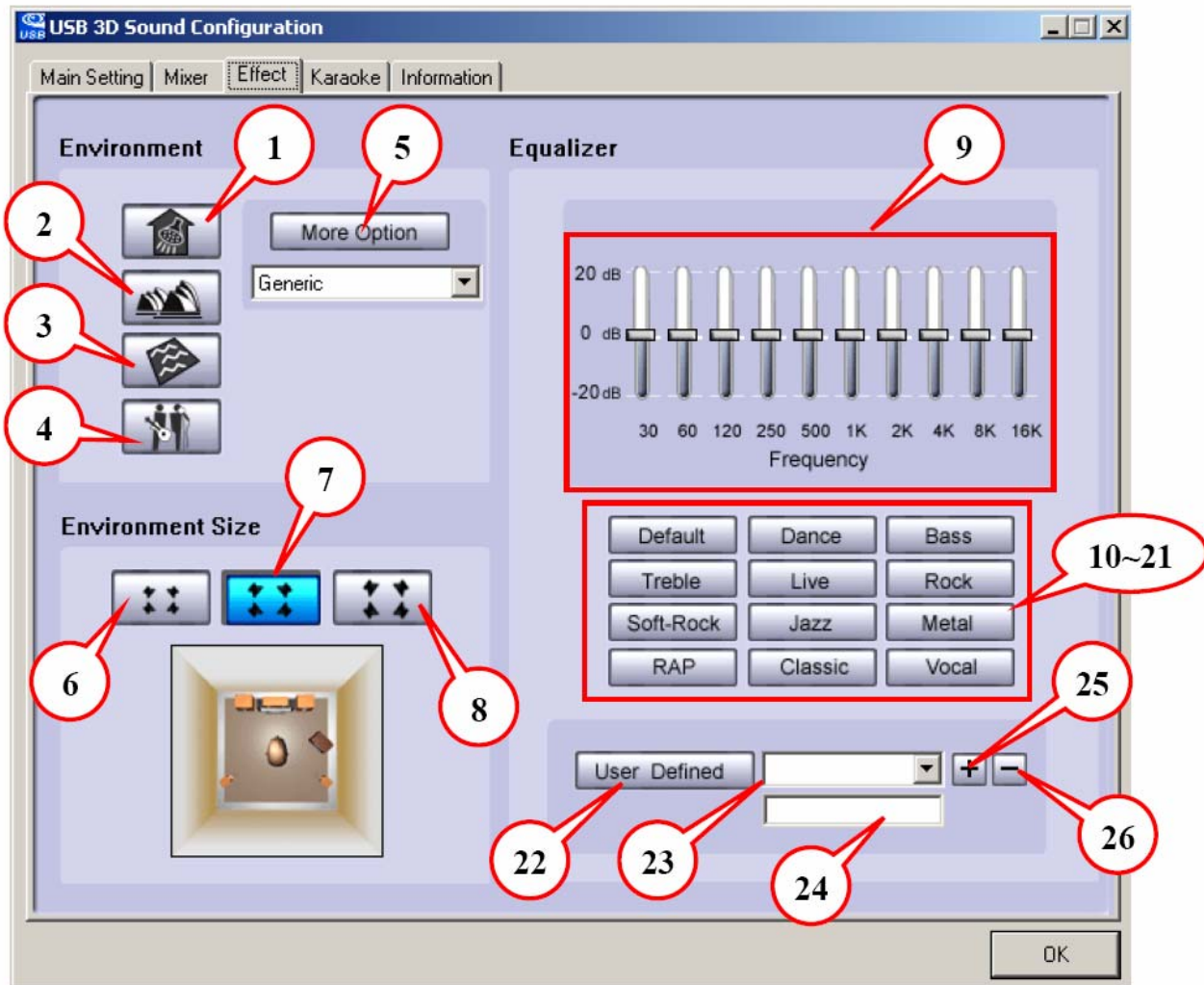


Environment

1. Bathroom
2. Opera
3. Underwater
4. Music Pub
5. More option : 27 mode for selected

Environment Size

6. Large
7. Middle
8. Small



Equalizer

9. Ten Band Equalizer Adjust

10. Pre-Set Mode (Default)

11. Pre-Set Mode (Dance)

12. Pre-Set Mode (Bass)

13. Pre-Set Mode (Treble)

14. Pre-Set Mode (Live)

15. Pre-Set Mode (Rock)

16. Pre-Set Mode (Soft-Rock)

17. Pre-Set Mode (Jazz)

18. Pre-Set Mode (Metal)

19. Pre-Set Mode (RAP)

20. Pre-Set Mode (Classic)

21. Pre-Set Mode (Vocal)

22. Equalizer User Define On/Off

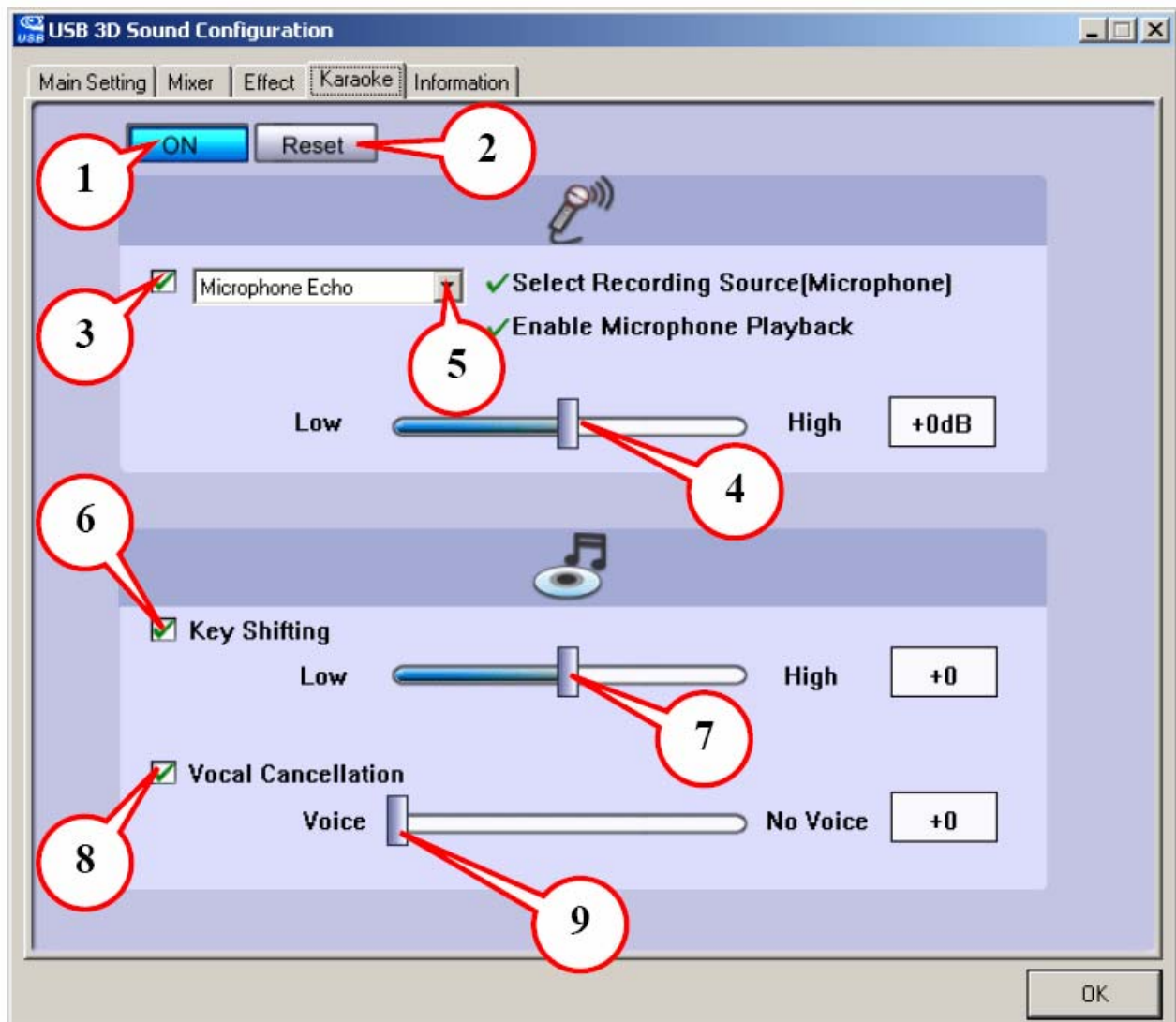
23. Pull to select user define mode

24. User Define naming key in

25. Add new user define mode

26. Del user define mode

Karaoke



1. **Karaoke On/Off** : Click this button then can control all karaoke functions.
2. **Karaoke Setting Reset** : Can reset all setting to default value
3. **Start Microphone Echo Function** : Select this button will pop up a dialog box to enable microphone function.

Click "OK" button to select recording source and enable microphone



4. **Echo Low/High Control Bar** : Adjust echo low/high
5. **Magic Voice Function (Optional)** : This function only supported in multi-channel audio products.

When you enable microphone echo then can pull down the menu to select magic voice. Magic voice provides 5 different effects for choice.



6. **Start Key Shifting Function** : Select this button to enable key shifting function and control.
7. **Key Shifting Low/High Control Bar** : This function can adjust tune of background music to fit your singing.
8. **Star Vocal Cancellation Function** : Select this button to enable vocal cancellation function and control.
9. **Vocal Canceling Control Bar** : This function can control singer's vocal of background music and cancel it as possible.

3. Troubleshooting

1. No Sound

You can often resolve a few basic problems by checking:

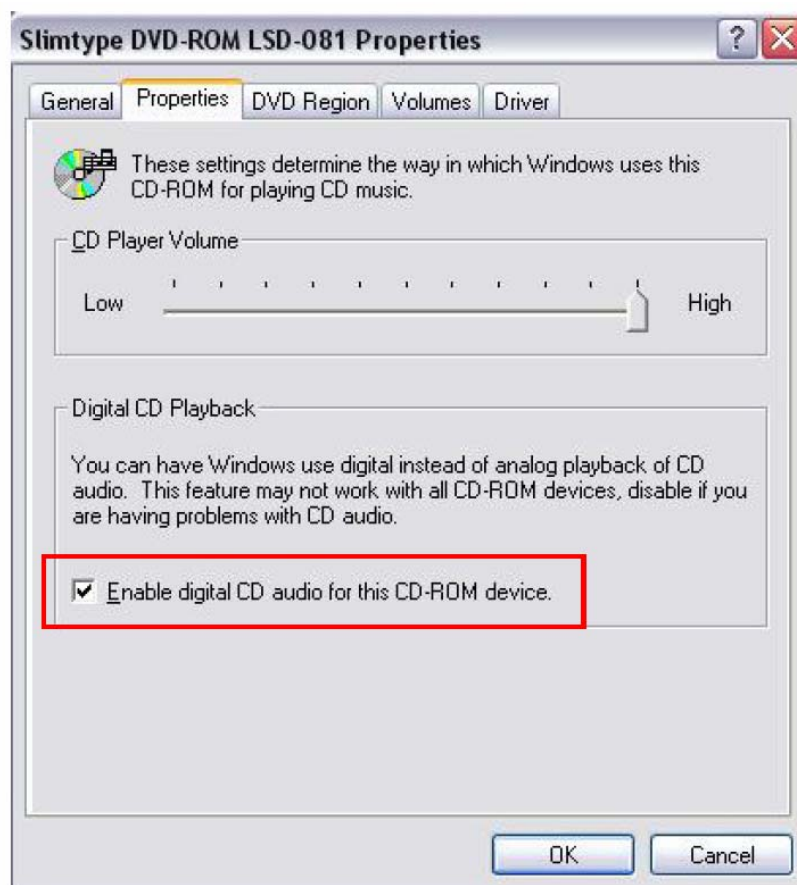
- The power of the speaker
- The sound volume
- The cable connections
- The audio CD compatibility

2. No Sound Is Recorded

You can often resolve a few basic problems by checking:

- If the MIC is probably connected
- If the file is saved and opened properly

3. Why play CD without sound ?



Most general case was digital CD playback function did not open. Because USB audio is digital signal, it is use different path to process CD music with traditional analog CD.

You should open “Device Manager”, select “DVD/CD ROM drives” and open it. Then switch to “properties” page and enable digital CD audio.

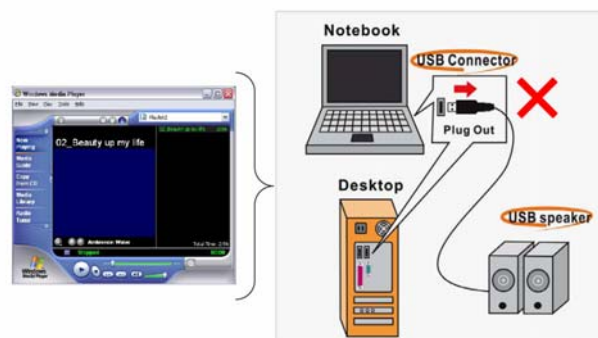
4. When using software application program (Like: Media player, Winamp, PowerDVD, WinDVD....) to playback any media files, can I plug out USB audio device while playing?

It is incorrect mode of operations, because while application programs were playing audio stream, windows system is stilling using audio device to process and deliver data real-time. So, when user plug out USB audio device windows system can not delivering audio data to the same device, so that system will be confused and make application programs failure or system crash.

The right way to plug out USB Audio device was stop playback function first. Especially when your Windows system was Win98SE or WinME, this corrected operation will keep stability of working system. Otherwise, uncorrected plug out will cause application program or system crash.

Note :

Do not plug out while application programs were playing media files. Please stop playback before plug out USB audio device.



4. Specifications

Item	Description	
Host Interface	USB Type A	
	3.5mm Stereo Jack Female	
Max Line Rate	USB 2.0 compatible with 1.1	
Sample rate	Fixed 48KHz sampling rate in analog recording and playback	
Audio Compliance	USB 2.0 full speed compliant.	
	USB audio device class specification 1.0	
	USB HID class specification V1.1	
Transfer Rate	1.5/12 Mbps	
Power Mode	Bus Power	
LED Indicators	Lights up when powered on , Flash when operation	
Operations System Support	Windows® 2000, XP and Vista™	
	Mac OS X v10.x or higher	
Working Environment	Operating Temperature	0~40 °C
	Storage Temperature	0~70 °C
	Humidity	0~80%
Housing	Dimension	70*70*17mm
	Material	ABS
	USB Cable	Length : 60cm

* Specifications are subject to change without notice.

5. Regulatory Compliance

FCC Conditions

This equipment has been tested and found to comply with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference
- (2) This device must accept any interference received. Including interference that may cause undesired operation.

Important! Changes or modifications not expressly approved by the manufacturer responsible for compliance could void the user's authority to operate the equipment. Use an approved phone set.

CE

This equipment is in compliance with the requirements of the following regulations:
EN 55 022: CLASS B

WEEE Information

For EU (European Union) member users:

According to the WEEE (Waste electrical and electronic equipment) Directive, do not dispose of this product as household waste or commercial waste. Waste electrical and electronic equipment should be appropriately collected and recycled as required by practices established for your country. For information on recycling of this product, please contact your local authorities, your household waste disposal service or the shop where you purchased the product.

