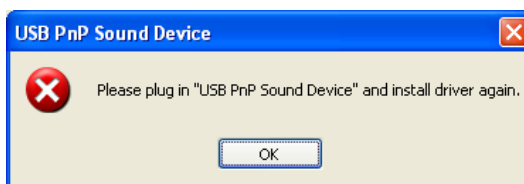


Software User Manual for XP

Make sure your headset is plugged-in. Otherwise you will see the following dialog.



1.1 Installation

- Insert the driver CD and double click on the setup.exe file if the auto run is disabled. Press “Cancel” if you want to quit the installation.
- Start the driver installation and press “Next” to go to the next step.
- Make sure the headset is plugged in to the USB audio card before you install the CAVUMANUS USB PnP Sound Device driver. Otherwise, the driver may not install.
- When the installation is complete, we recommend you restart your computer.

1.2 Remove the driver

- Double click on the “Add or Remove Programs” icon in the Windows XP Control Panel.
- Select “USB PnP Sound Device” item, and then click “Change/Remove” button.
- Press “OK” button to Uninstall CAVUMANUS USB Advance Audio Device driver.
- When the process is finished, we recommend you restart your computer to completely remove the driver.

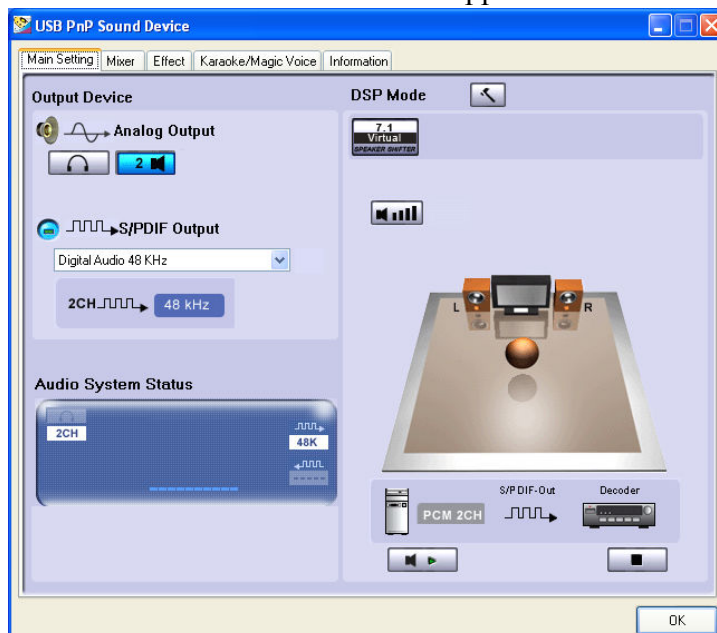
Driver Control Panel (CPL) Introduction

2.0 Open Software CPL

After you have finished rebooting your PC, you will find CAVUMANUS PnP PnP Sound Device software CPL icon on the system tray bar.

- You can open the CPL by double-clicking on the icon.
- If the tray icon does not appear in your system tray, just go to the Windows XP control panel and double click on the CPL icon to open it.

The CAVUMANUS USB PnP Sound Audio Device CPL will appear as below:

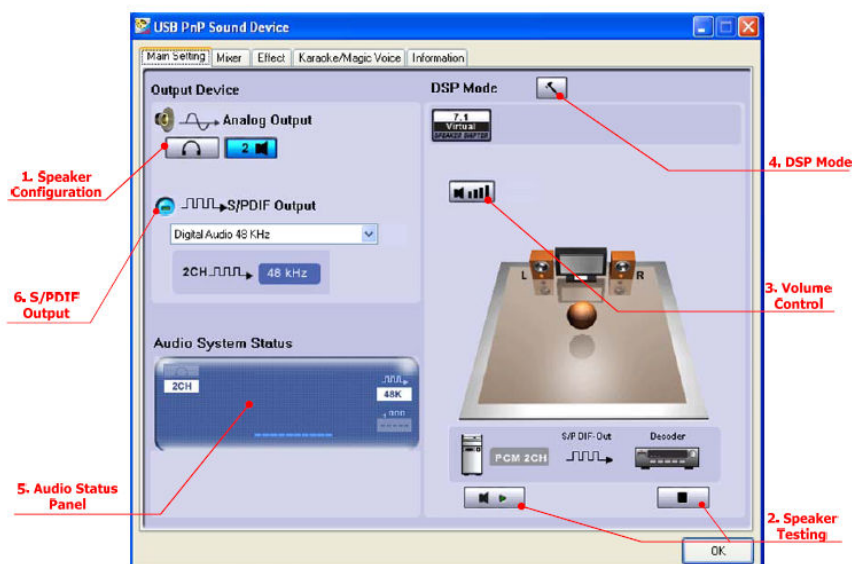


How to show the CPL icon in the system tray?

1. Open CAVUMANUS PnP Sound Device software control panel.
2. Go to “Information” page.
3. Check “Show the audio configuration icon in the system tray.”

2.1 “Main Setting” Page Function Introduction


You can control the USB Audio various playback device configurations as below:



1. Analog Output – Speaker/Headphone Configuration. (refer to 2.1.1)
2. Analog Output – Speaker Testing. (refer to 2.1.2)
3. Analog Output – Volume Control. (refer to 2.1.3)
4. Analog Output – DSP Mode. (refer to 2.1.4)
5. Display – Audio System Status. (refer to 2.1.5)
6. S/PDIF Output – S/PDIF Output Switch (refer to 2.1.6)


2.1.1 Analog Output – Speaker/Headphone advanced setting

The PnP Sound Device supports stereo headphones and 2CH Speaker analog output.

- Click the Advanced settings button () to set the advanced speaker setting.
- Advanced settings – Headphone
Swap headphone left/right output

2.1.2 Analog Output – Speaker/Headphone Sound Testing

You can test Speaker/HP sound output automatically or manually.

1. Automatic Speaker/Headphone Testing:
Click the auto testing button (), and the CPL will auto test every speaker in turn.
2. Manual Speaker/Headphone Testing:
Click the single Headphone/Speaker diagram to test the speaker output sound manually.

2.1.3 Analog Output – Volume Control

The CPL provides a volume control function; you can click the “Digital Volume” button to enable the volume control bar.

1. Volume Control Bar:



Use the volume control bar to adjust the sound value for Speaker/Headphone left/right channel.

2. Reset Button:


Click the “Reset” Button to return all speaker sound values to the default setting.

2.1.4 Analog Output - DSP Mode

The CPL provides a DSP mode.

- The button () lets you switch the DSP Effect Advanced Setting on or off.
When the DSP Mode is turned on, you can see the DSP working layout on the right.
- When the DSP Mode is off (), the standard speaker test mode will be resumed.

1.7.1 Virtual Speaker Shifter:

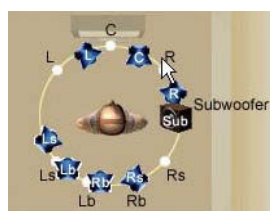
Click the “7.1 Virtual Speaker button” () to enable the DSP Effect. When enabled, the icon will be displayed in the DSP Effect section on the right.

I. Volume Control:

Increase / decrease the volume of all channels by 1 dB for one step. (+4dB~-17dB)

II. Auto Rotation Mode:

The virtual speakers rotate clockwise or counterclockwise slowly. For example, if clockwise is selected:



T=0



T=0.25 sec



T= 1 sec

III. Manual Rotation Mode:

Use the mouse to rotate the virtual speakers on the screen manually.

IV. Manual Shifting (Free Moving Mode):

Use the pointer and click-and-drag to move the location of the individual virtual speakers.

V. Reset:

Reset the location of the virtual speakers / virtual listener to default.

VI. Virtual Speaker:

Each virtual speaker virtualizes one channel of the 7.1 channel speakers in the real world.

VII. Virtual Listener:

The virtual listener virtualizes your position.

VIII. Volume indicator:


Indicate the value for each channel.

2.1.5 Audio System Status Panel

The CPL provides a panel to indicate the Audio system status.

- Analog Output Device
- S/PDIF Output Sample Rate
- Peak Meter

2.1.6 S/PDIF Output – S/PDIF Output Device Options.




CM108AH USB Multi-Channel Audio Device supports the Digital Output. Click “S/PDIF Enable button” () to enable it.

1. S/PDIF Enable Button.
2. Digital Audio Sample Rate Option-48/44.1KHz 2CH digital PCM Data Output.

2.2 “Mixer” Page Function Introduction

The built-in mixer controls the volume playback / recording / monitoring (A-A Path).

2.2.1 Playback and Monitoring (A-A Path) Mixer

1. Master Volume Controller - Control playback output volume.
2. Master balance Controller - Control playback sound balance.
3. Speaker configuration – Indicate the speaker numbers or Headphone
4. Master Volume Mute / Un-Mute Control
Mute button is un-lit ().
Un-Mute button is lit ().
5. Balance Volume - Control the sound output from the left or right channel using the balance controller.
6. Volume Control - Control the playback output or A-A path device volume.
7. Peak Meter- Indicate the instantaneous level of an audio signal.
8. Mic Boost:
Click Mic-boost button () and then check the Mic-boost icon to increase the A-A path of microphone volume.

2.2.2 Recording Mixer

1. Peak Meter:
Indicate the instantaneous level of an audio signal.
2. Active Recording Device:
Indicate the recording resource device.
3. Sound Balance Controller:
Control the voice output from the left or right channel using the balance controller.
4. Volume Controller:
Control the recording value by individual recording device.
5. Recording Device Selector:
Click the selector to set the Recording source.

6. Mic Boost:

Click Mic-boost button () and then check the Mic-boost item to increase the recording of Microphone volume.

2.2.3 Playback Device Introduction

You have several options for controlling the volume in this panel, including adjusting the volume level, muting and reducing volume.

1. Wave:

The volume control is for OS system audio volume level.

2. SW Synth:

The volume control is for MIDI music.

3. CD Player:

The volume control is for the CD player, if you play a CD, you can adjust the volume level by this control bar.


4. Microphone:

The volume control is for the monitor (A-A path) of the “Microphone-in” device. The A-A path means the Microphone-in to Speaker-Out analog loop path.


2.2.4 Recording Device Introduction

You have several options for controlling the volume in this panel, including adjusting the volume level and select the default recording device.

1. Microphone:

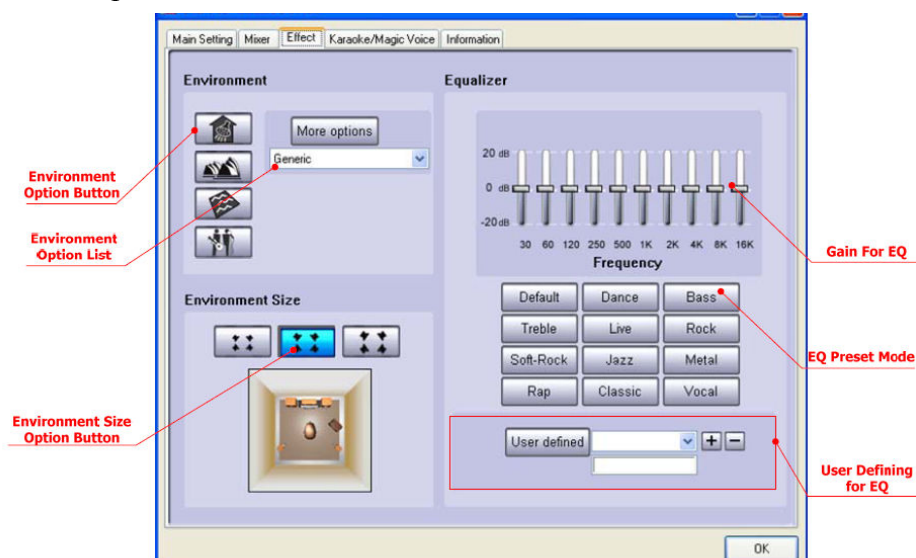
The volume level control and default device selector for the “Microphone” device. Plug-in the microphone and select () the “Microphone” as the default device, and start to record sound.

2. WAVE In:

The volume level control and default device selector for “WAVE In” device, this device is records what you hear, just select () the “WAVE In” as the default device, and start to record sound.

2.3 “Effect” Page Function Introduction

The features in this window provide various sound effects.



3. Environment

Select an “Environment option button” or “Environment option List” for emulation that is implemented by producing sound reflection and reverberation.

4. Environment Size

You can change the “Environment Size Button” to simulate a larger or smaller space (default is medium). You will feel the changes of space.

5. Equalizer (EQ) 10-Band

Select a pre-set mode for equalizer that is designed accordingly. There are 12 preset modes such as Bass, Treble, Live, Rock, Jazz, etc.

You can change the gain setting for each band and then give it a name in the following blank. Click “+” to add your new setting into the “User Defined” list. Click “-” to delete settings.

2.4 “Karaoke and Magic Voice™” Page Function Introduction

These functions let you experience voice processing. It is also an interesting feature that can be used on VOIP applications and Karaoke speaker systems.

1. Click “ON” to turn on the voice processing.
2. Click “Reset” to return all settings to default volume.
3. Magic Voice Function Area – Provide “Microphone Echo” and “Magic Voice” functions. (refer to 2.4.1)
4. Karaoke Function Area - Provide “Key Shifting” and “Voice Cancellation” functions. (refer to 2.4.2)

2.4.1 Magic Voice Area

1. Microphone Echo:

When singing a song, you may need the Voice Echo to make the singing more euphonious. You can select “Microphone Echo” to get the effect and adjust the volume of the echo sound. The range is -12dB to +12dB. For the first time when you turn on the function, the driver will select the microphone input as the recording source. Click “OK” to close this window as follows.

2. Magic Voice:

When you are talking to your friends using Messenger, VOIP, online game applications, you can use “Magic Voice™” effects in the pull-down menu for fun. Only one voice type can be chosen at a time.

When “Magic Voice™” is selected; the layout will be shown as followed. There are five options: Default (no effect), Monster, Cartoon, Male, and Female styles.

2.4.2 Karaoke Function Area

1. Key-Shifting:

You can enable Key-Shifting for the Karaoke VCD or the music to make it suitable for your voice pitch. The range is -4 to +4 semitones.

2. Vocal Cancellation:

If the music source includes the original singer's voice, try "Vocal Cancellation" function to cancel it (0~100). However, the effect doesn't always work, as it depends on the recording method of the source. Usually, this is not needed for Karaoke VCD or CD, which do not have a singer's voice.

2.5 "Information" Page Introduction

This page records the driver information and the technologies' trademark logo. You can get both hardware/software details and also legal information references here.

1. Trademark logo placement
2. Show Tray Icon option
3. Hardware and software information
4. Control Panel Version (Ver.2.0.01.05)
5. Genius Web Site. (URL: www.geniusnet.com)

2.6 "Tray Icon" Function Introduction

Open the "CPL Tray Icon Function List" by right-clicking on the tray Icon on system tray.

1. Open:

When click the "Open" item, will restore the USB 2.0 High-Speed True HD Audio Software CPL.

2. Volume Control:

When you click "Volume Control", it will open the Windows Volume Control as shown.

3. Windows Media Player:

When you click "Windows Media Player", it will open the Microsoft Windows Media Player.

4. Sound Recorder:

When click the "Sound Recorder" item, will open the Windows built-in default recording program.

5. Multimedia Properties:

Open the "Sounds and Audio Devices Properties" in Windows and you can set the advanced setting on this page.