

CREATIVE

SoundBLASTER

AUDIGY Rx



Introduction

Thank you for purchasing Creative's high performance audio solution, Sound Blaster Audigy Rx!

High Definition Digital Audio Entertainment

Featuring 24-bit / 192 kHz audio playback, the Sound Blaster Audigy Rx audio card delivers high-definition sound of astounding quality and 24-bit / 96 kHz audio recording capability from line level.

The Sound Blaster Rx audio card with its Rx processor enables awesome EAX[®] ADVANCED HD[™] technologies to enhance your online karaoke, chatting, gaming and music listening experience. Your Sound Blaster Rx provides ASIO2 driver support for 24-bit / 96 kHz and 16-bit / 48 kHz—allowing singer and musicians to produce high quality work.

This User Guide contains software installation and usage information for your audio cards.

System Requirements

Minimum Requirements

- Intel[®] Core[™] i3 or AMD[®] processor equivalent
- Intel, AMD, or 100% compatible motherboard
- Microsoft[®] Windows[®] 11 / Windows 10 64-bit or 32-bit
- ≥ 4 GB RAM
- 4 GB of free hard disk space
- Available PCI Express based 1.0a compliant slot

Notes

- Other applications may have higher system requirements. Refer to the applications' documentation for details.

More Help

For the latest news and products for Sound Blaster, visit www.soundblaster.com. The site also includes information on making purchases, technical help, and the latest driver updates.

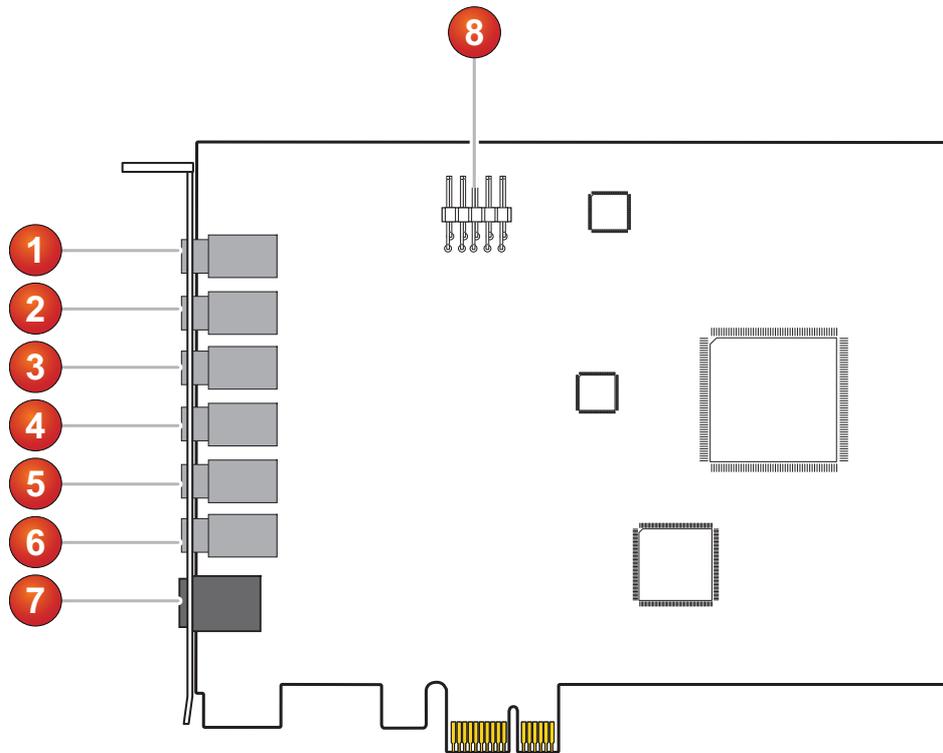
About Your Hardware

Visit www.soundblaster.com for the latest Sound Blaster news and products.

Your Sound Blaster Audigy Rx

Your audio card has these jacks and connectors to enable the attachment of a wide variety of devices:

Model: SB1550



	Jack or Connector	Description
1.	Mic 1	Connects to a Mono microphone input 1
2.	Mic 2	Connects to a Mono microphone input 2
3.	Line-in	Connects to analog line level output from other devices like music synthesizers
4.	Front / Headphone-out (Line-out 1)	Connects to Front Left and Front Right inputs on powered analog speakers or an external amplifier for audio output Also supports headphones
5.	Rear / Side R (Line-out 2)	Connects to Rear Left, Rear Right, and Side Right (only on 7.1 systems) inputs on powered analog speakers or an external amplifier for audio output
6.	Sub / C / Side L (Line-out 3)	Connects to Front Center, Subwoofer, Side Left (only on 7.1 systems) inputs on powered analog speakers or an external amplifier for audio output
7.	Optical-out	Connects to external digital devices or digital speaker systems
8.	HD Front Panel	Connects to front panel connectors like microphone and headphones on PC that is Intel HD compliant

Installing and Uninstalling Software

To take full advantage of your Sound Blaster Audigy Rx, you need to install device drivers and applications. At times, you may also need to uninstall some or all of the device drivers and applications to correct problems, change configurations, or upgrade outdated drivers or applications. To learn how to do so in all supported Windows operating systems, consult the following sections:

- Installing and Uninstalling Software
- Reinstalling all Audio Drivers and Applications
- Uninstalling all Audio Drivers and Applications

Installing and Uninstalling Software

For Windows 11 / 10:

1. Download the software from **support.creative.com/sbrx**.
2. Double-click on the downloaded file.
3. Follow the instructions on the screen.
4. Restart your computer when prompted.

Using Creative Software AutoUpdate

Locating, downloading, and installing updates for your Creative products is now simpler and faster with the web-based **Creative Software AutoUpdate** system.

When you connect to **Creative Software AutoUpdate** via the Internet, the website will analyze your computer system to determine what operating system (OS), language, and Creative products are installed in your system.

After the online analysis, you will be able to select from a list of only the most relevant software and driver updates. The files will then be retrieved and installed on your system for you.

To learn more about **Creative Software AutoUpdate**, visit www.soundblaster.com/support.

Notes

- First-time users of **Creative Software AutoUpdate** may be prompted to authorize the download of a browser component required for system inspection. Ensure that the content is signed by Creative Labs, Inc., then click the **Yes** button.
- Ensure that all your Creative products are connected and installed on the same computer running **Creative Software AutoUpdate**.

Uninstalling Applications and Device Drivers

At times you may need to reinstall some or all of the audio applications and device drivers to correct problems, change configurations, or upgrade outdated drivers or applications.

Before you begin, close all audio card applications. Applications that are still running during the uninstallation will not be removed.

All Audio Drivers and Applications

For Windows 8:

1. Click the **Desktop** tile on the start screen. Click **Settings** → **Control Panel**
2. Select the **Sound Blaster Audigy Rx** entry or your audio device's entry.
3. Click the **Uninstall** button.
4. Follow the on-screen instruction to uninstall the driver / application.
5. Restart your computer when prompted.

You may now install existing or updated Sound Blaster Audigy Rx device drivers or applications.

Connecting Related Peripherals

Your Sound Blaster Audigy Rx will give you endless hours of karaoke singing and listening pleasure. To connect related peripherals, refer to the corresponding sections.

- Enjoying Online Karaoke
- Creating Music
- Listening to Music
- Watching DVDs

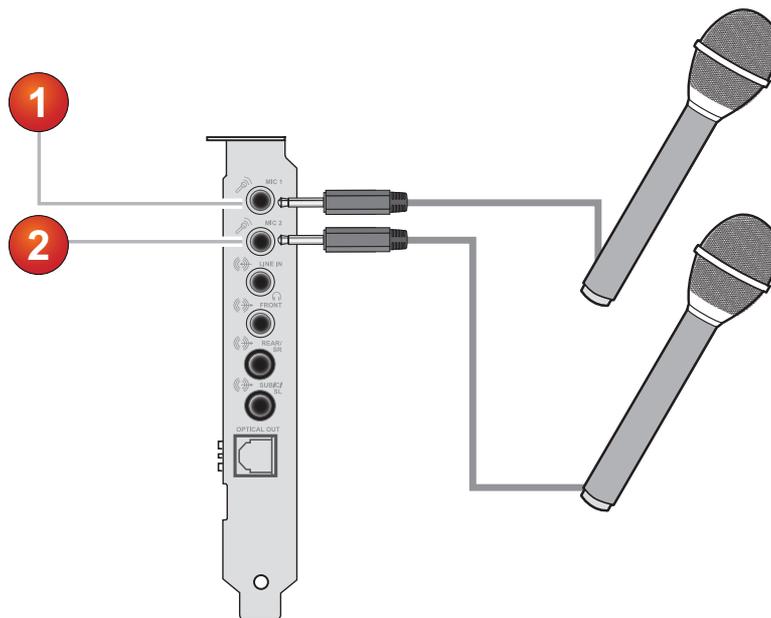
The cables shown here are available separately.

Enjoying Online Karaoke

With Sound Blaster Audigy Rx, you can have an enhanced karaoke singing experience when you are using karaoke softwares or when you go to your favorite karaoke websites.

Swiftly switch from **Sing Mode** to **Chat Mode** with a couple of clicks and effortlessly adjust your pitch and volume while singing. Chatting with your friends and singing with them is just a breeze.

You may connect to more than one microphone with your Sound Blaster Audigy Rx to enjoy singing in duet.

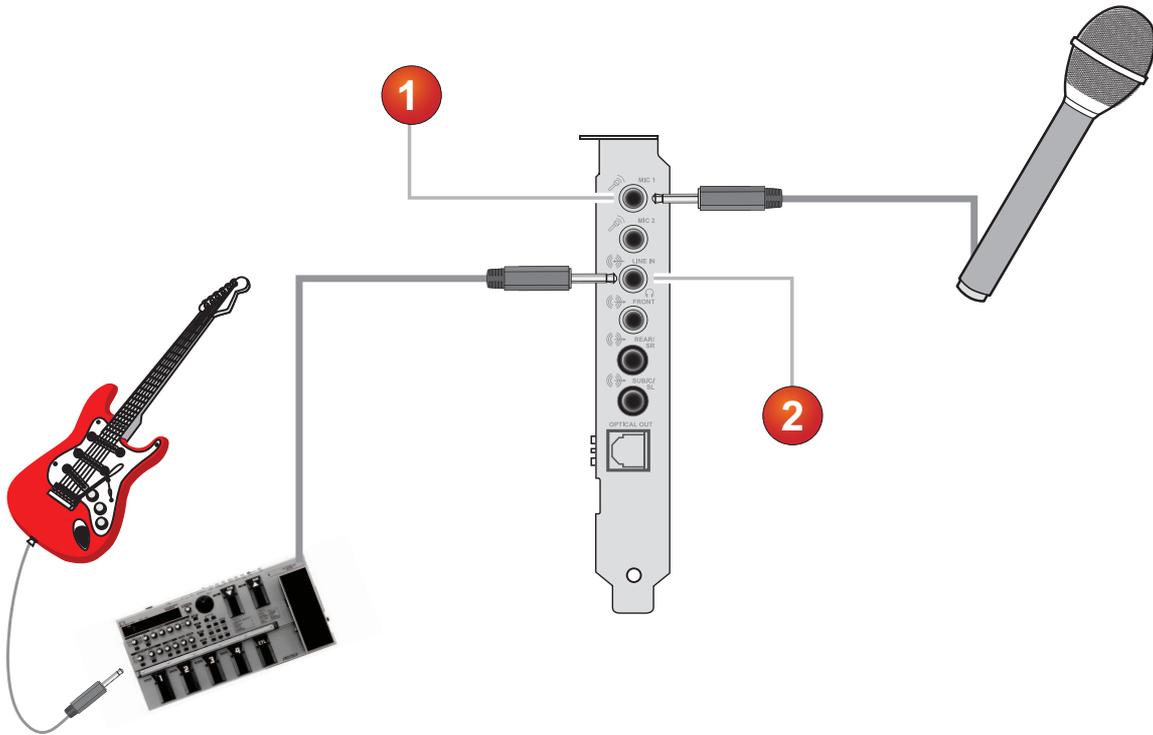


	Jack, Connector or Cable	Description
1.	Mic-in jack	Connects to a microphone.
2.	Mic-in jack	Connects to a second microphone.

Creating Music

You can set up a home music studio using your Sound Blaster Audigy Rx.

Put together your own productions consisting of multiple music tracks from a MIDI Synthesizer, an electric guitar or a microphone. Alternatively, connect your electric guitar using a Pre-amp Box to the Line In jack. Use a convertor if your electric guitar comes with a larger connector.



	Jack, Connector or Cable	Description
1.	Mic-in jack	Connects to a microphone.
2.	Line-in jack	Connects to line sources (for example, electric guitars).

Listening to Music

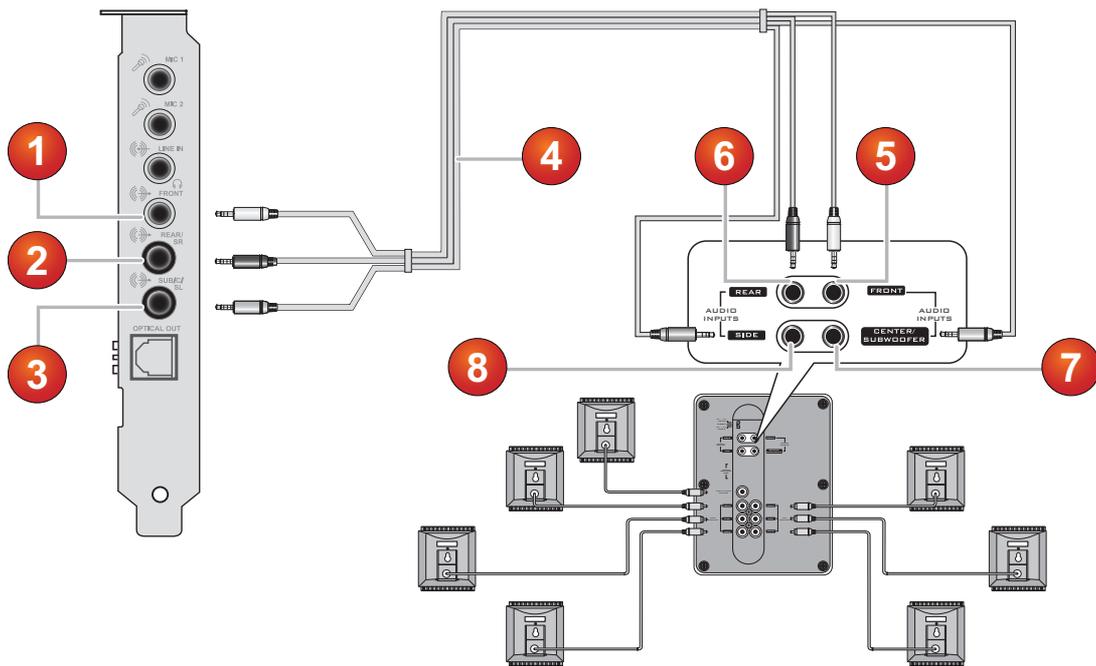
You can connect stereo headphones to the Line-out 1 jack on your Sound Blaster Audigy Rx. Use a convertor if your headphones come with a larger connector.



	Jack, Connector or Cable	Description
1.	Line-out 1 jack	Connects to stereo headphones with a 3.5 mm (1/8-inch) jack.

Watching DVDs

You can connect your multichannel speaker system to your Sound Blaster Audigy Rx audio card, to enjoy watching your favorite DVDs.



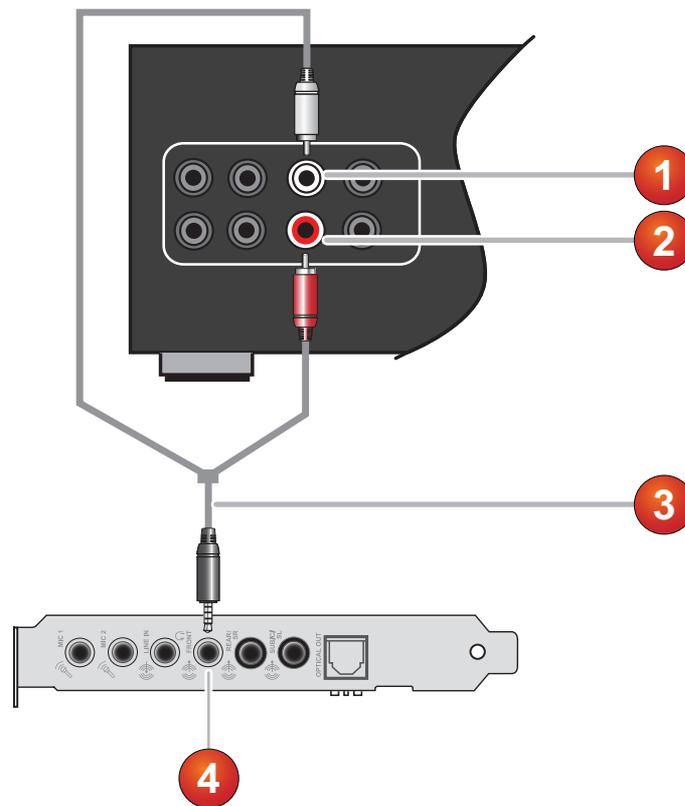
	Jack, Connector or Cable	Description
1.	Line-out 1 jack	Connects to the Line-out 1 jack on the Sound Blaster Audigy Rx.
2.	Line-out 2 jack	Connects to the Line-out 2 jack on the Sound Blaster Audigy Rx.
3.	Line-out 3 jack	Connects to the Line-out 3 jack on the Sound Blaster Audigy Rx.
4.	7.1 channel audio cable (Not included, refer to 7.1 Speaker Configuration Guide)	Connects the Sound Blaster Audigy Rx. and 7.1 analog speaker.
5.	Front connector	Connects to the Front jack on your 7.1 analog speaker.
6.	Rear connector	Connects to the Rear jack on your 7.1 analog speaker.
7.	Center / Subwoofer (Audio-in) connector	Connects to the Center / Subwoofer jack on your 7.1 analog speaker
8.	Side (Audio-in) connector	Connects to the Side jack on your 7.1 analog speaker.

Notes

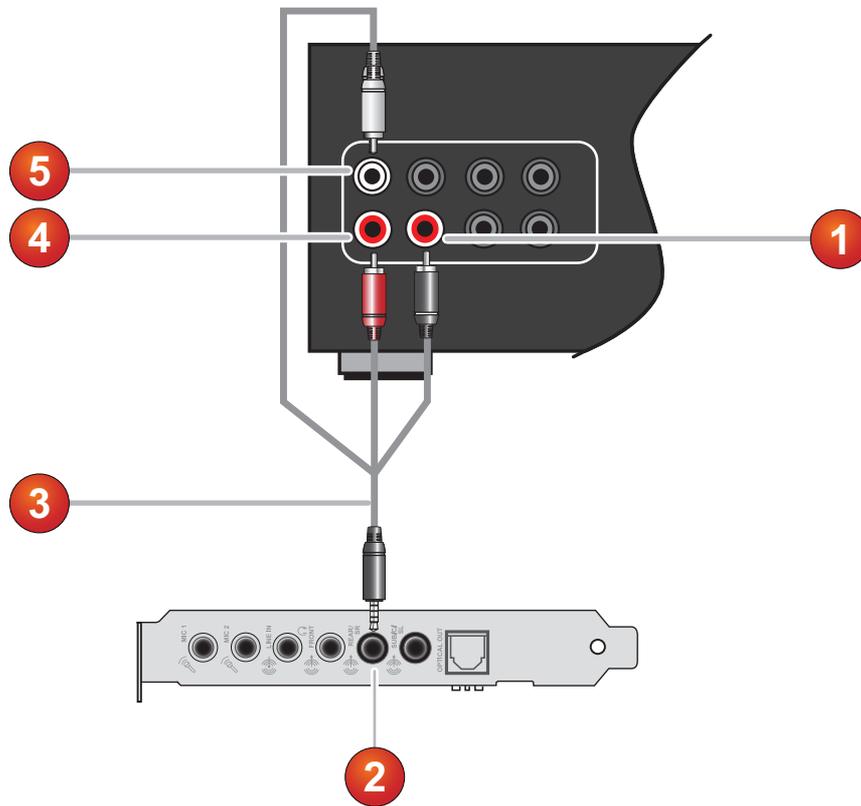
- Depending on the number of output channels on your external decoder or AV Amplifier, you can connect up to 7.1 speaker systems to your Sound Blaster Audigy Rx. For more information, refer to the User's Guide of your speaker system.

Connecting a multichannel AV Amplifier

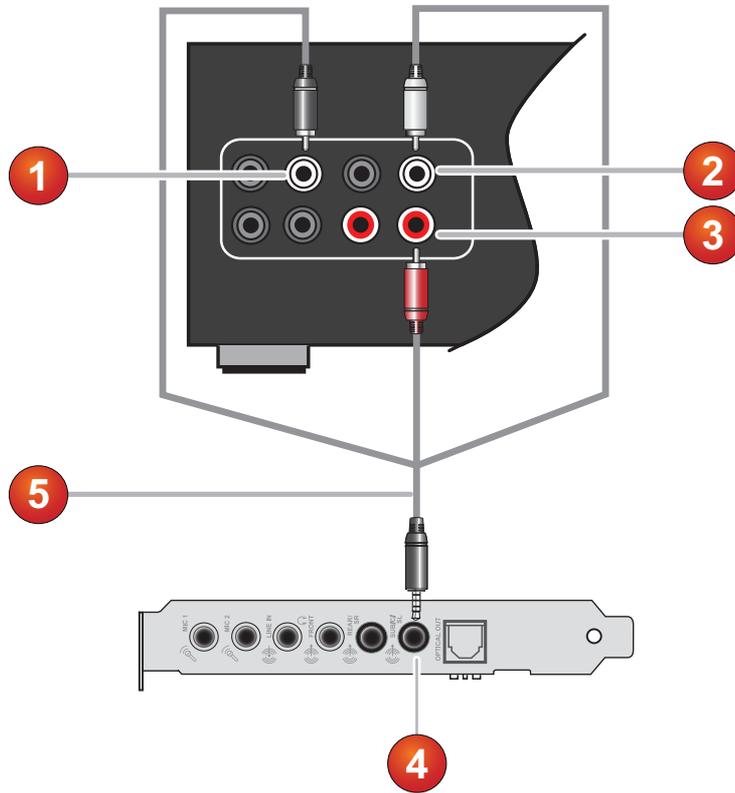
- If you have a multichannel AV Amplifier, connect it directly to the Sound Blaster Audigy Rx audio card's Line-out 1, Line-out and Line-out 3 jacks as shown below. For more information on multichannel AV Amplifier speaker connections, consult the User's Guide of your AV Amplifier.
- For more information on the appropriate jacks to use, see **Connecting Speakers**.



	Jack, Connector or Cable	Description
1.	Front Left connector	Connects to the Line-out 1 jack on the Sound Blaster Rx.
2.	Front Right connector	Connects to the Line-out 1 jack on the Sound Blaster Rx.
3.	3.5 mm (1/8-inch) stereo-to-RCA cable (not included)	Connects the Sound Blaster Audigy Rx and AV Amplifier.
4.	Line-out 1 jack	Connects to the Front Left and Front Right connectors on an AV Amplifier.



	Jack, Connector or Cable	Description
1.	Side Right connector	Connects to the Line-out 2 jack on your Sound Blaster Audigy Rx.
2.	Line-out 2 jack	Connects to the Rear Left, Rear Right and Side Right connectors on an AV Amplifier.
3.	3.5 mm (1/8-inch) Stereo-to-RCA cable	Connects the Sound Blaster Audigy Rx and AV Amplifier.
4.	Rear Right connector	Connects to the Line-out 2 jack on the Sound Blaster Audigy Rx
5.	Rear Left connector	Connects to the Line-out 2 jack on the Sound Blaster Audigy Rx



	Jack, Connector or Cable	Description
1.	Side Left connector	Connects to the Line-out 3 jack on the Sound Blaster Audigy Rx.
2.	Center connector	Connects to the Line-out 3 jack on the Sound Blaster Audigy Rx.
3.	Subwoofer connector	Connects to the Line-out 3 jack on the Sound Blaster Audigy Rx.
4.	Line-out 3 jack	Connects to the Side Left, Center and Subwoofer connectors on an AV Amplifier.
5.	3.5 mm (1/8-inch) Stereo-to-RCA cable (not included)	Connects the Sound Blaster Audigy Rx and AV Amplifier.

Connecting Speakers

The connectors and associated components shown here may be different from that of your speaker system. Consult the User's Guide of your speaker system to identify similar input connectors.

To learn how to connect different types of speaker systems to your Sound Blaster Audigy Rx, consult the following sections:

- Positioning Your Speakers
- Connecting Digital Speaker Systems
- Connecting Analog Speaker Systems
- Connectivity

For tips on how to arrange your speakers, consult **Positioning Your Speakers**.

For a list of supported Creative speaker systems or access interactive help on speaker connectivity, visit the **Knowledge Base** at either www.soundblaster.com or www.creative.com.

Notes

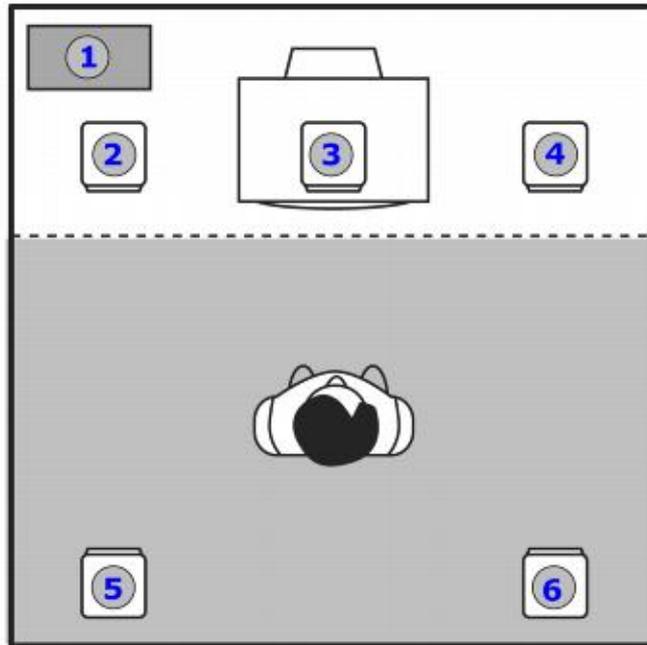
- Actual products may differ slightly from those shown in this chapter.
- The cables shown in this chapter may be bundled with your peripheral or are available separately from www.creative.com.

Positioning Your Speakers

Good speaker placement is crucial to getting optimal performance from your audio system and achieving an enhanced listening experience. Below are our recommendation for 5.1 and 7.1 channel speakers.

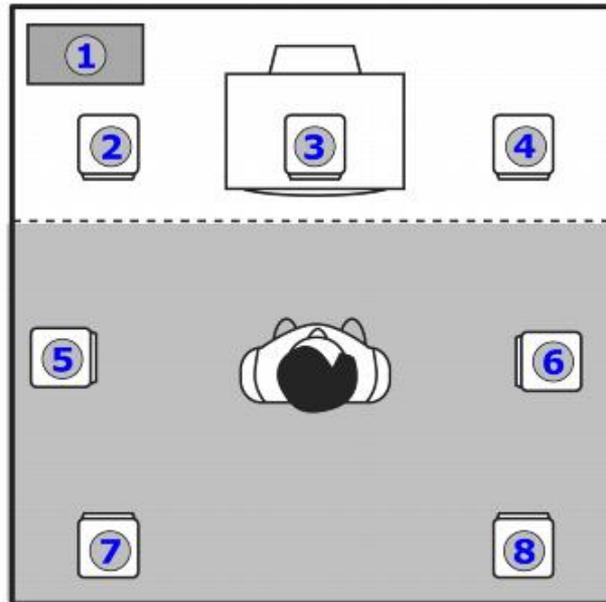
For detailed speaker placement tips, consult the documentation of your speaker system.

For 5.1 channel speakers:



	Speaker Component
1.	Subwoofer
2.	Front Left
3.	Front Center
4.	Front Right
5.	Rear Left
6.	Rear Right

For 7.1 channel speakers:



	Speaker Component
1.	Subwoofer
2.	Front Left
3.	Front Center
4.	Front Right
5.	Side Left
6.	Side Right
7	Rear Left
8	Rear Right

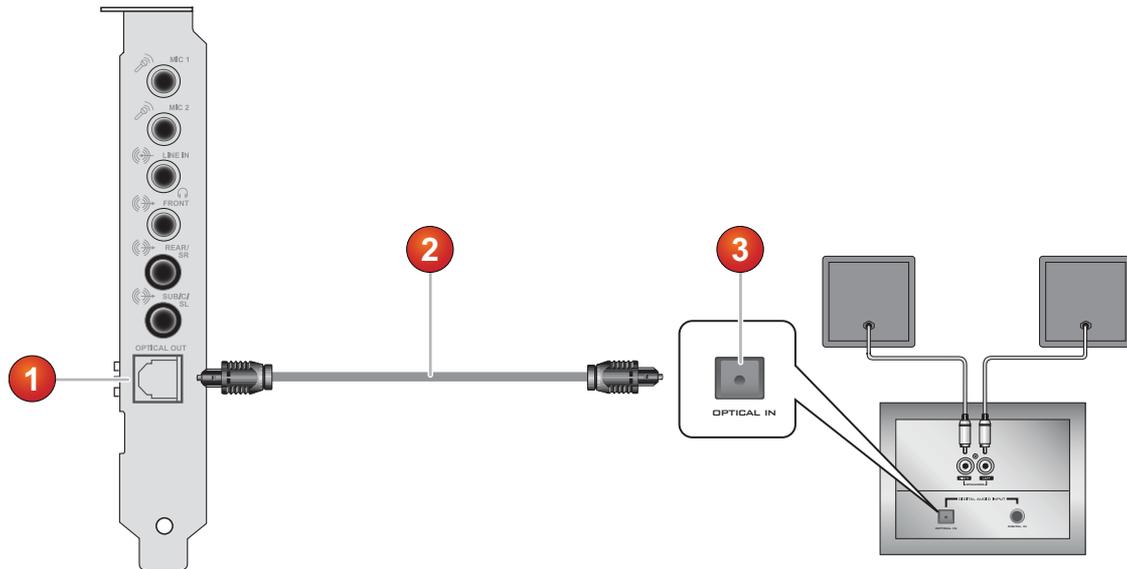
Notes

- If you have a 5.1 channel or 7.1 channel speaker system, you can upmix your stereo sources to the respective channels by using Creative Multi-Speaker Surround (CMSS®) technology. To upmix, you need to enable the CMSS feature, refer to **Using your Creative Sound Blaster Rx Control Panel**.

Connecting Digital Speaker Systems

You can connect generic digital speaker systems to your Sound Blaster Audigy Rx.

Generic digital speakers



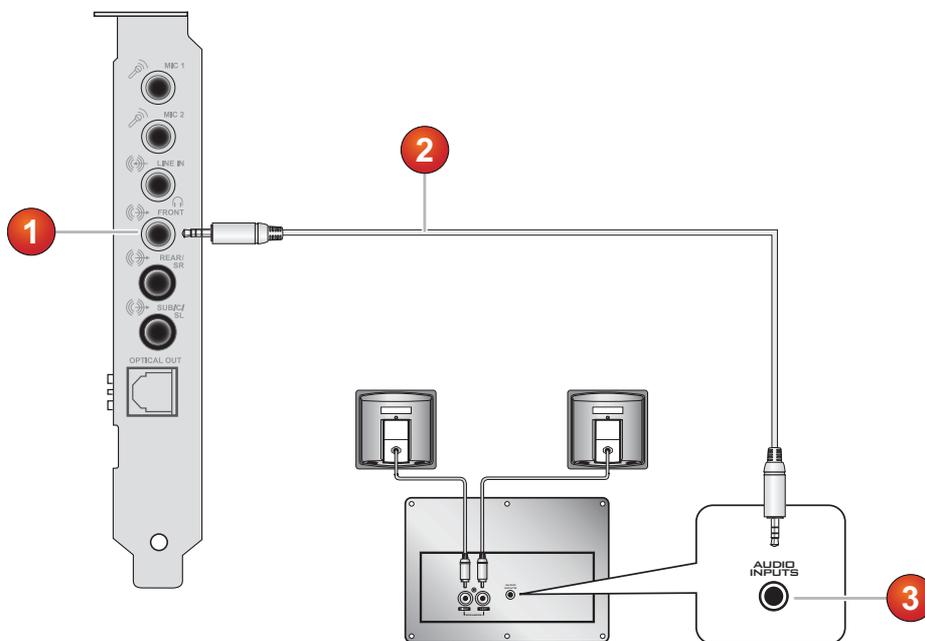
	Device/Cable
1.	Optical-out jack
2.	Optical cable (not included)
3.	Optical-in connector

Connecting Analog Speaker Systems

You can connect analog speaker systems of up to 7.1 channels. To learn more about connecting different channel speaker systems, consult the following sections:

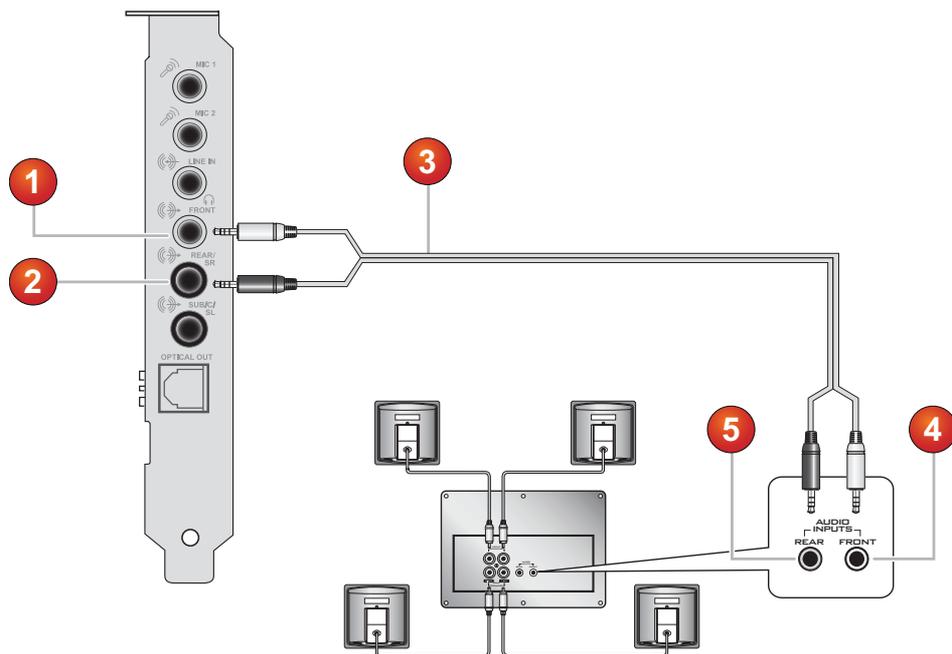
- 2.1 channel analog speakers
- 4.1 channel analog speakers
- 5.1 channel analog speakers
- 7.1 channel analog speakers

2.1 channel analog speakers



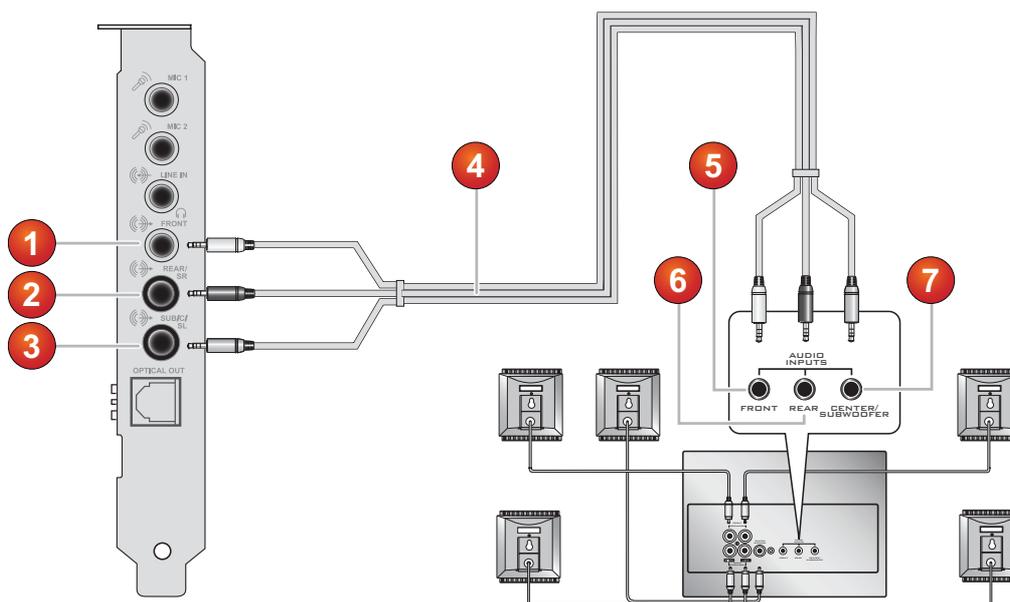
	Jack, Connector or Cable
1.	Line-out 1 jack
2.	2-channel audio cable (not included)
3.	Audio-in jack

4.1 channel analog speakers



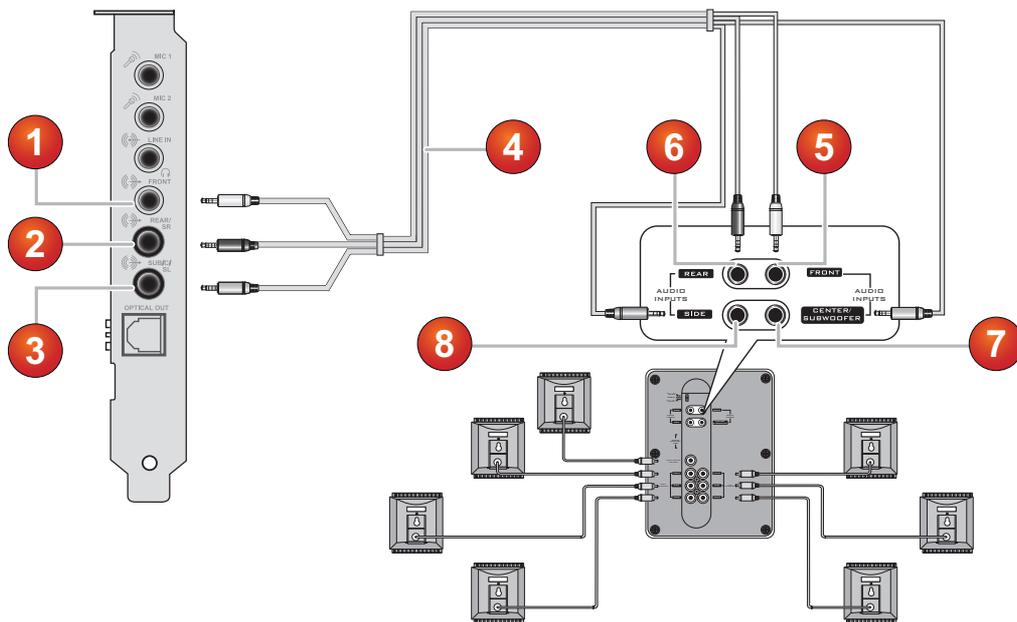
	Jack, Connector or Cable
1.	Front (Line-out 1) jack
2.	Rear (Line-out 2) jack
3.	4-channel audio cable (not included)
4.	Front (Audio-in) jack
5.	Rear (Audio-in) jack

5.1 channel analog speakers



	Jack, Connector or Cable
1.	Line-out 1 jack
2.	Line-out 2 jack
3.	Line-out 3 jack
4.	5.1 channel audio cable (not included)
5.	Front (Audio-in) connector
6.	Rear (Audio-in) connector
7.	Center / Subwoofer (Audio-in) connector

7.1 channel analog speakers



	Jack, Connector or Cable
1.	Line-out 1 jack
2.	Line-out 2 jack
3.	Line-out 3 jack
4.	7.1 channel audio cable (Not included, refer to 7.1 speaker configuration guide)
5.	Front (Audio-in) connector
6.	Rear (Audio-in) connector
7.	Center / Subwoofer (Audio-in) connector
8.	Side (Audio-in) connector

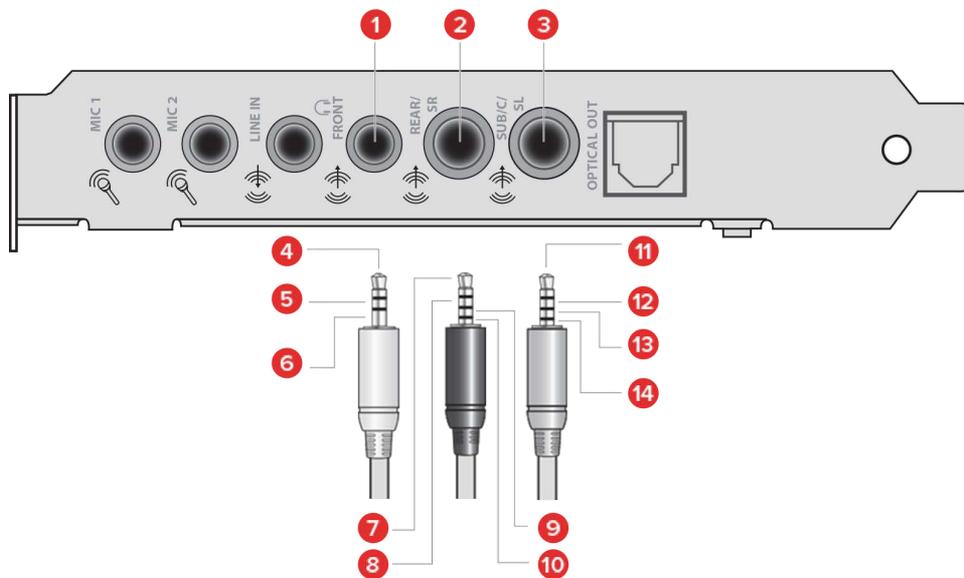
Notes

- When you are using 7.1 channel analog speakers with your audio card, make sure you select the 7.1 Speakers option on the **Speakers & SPDIF I/O Settings** in **Sound Blaster Rx Control Panel** to experience 7.1 channel audio.

Connecting Sound Blaster Audigy Rx to 7.1 Speaker System

The diagram below illustrates the signal (pin-out) of the 7.1 connectors on the Sound Blaster Audigy Rx. These cables are widely available online and in most major electronics stores.

7.1 Channel Analog Audio



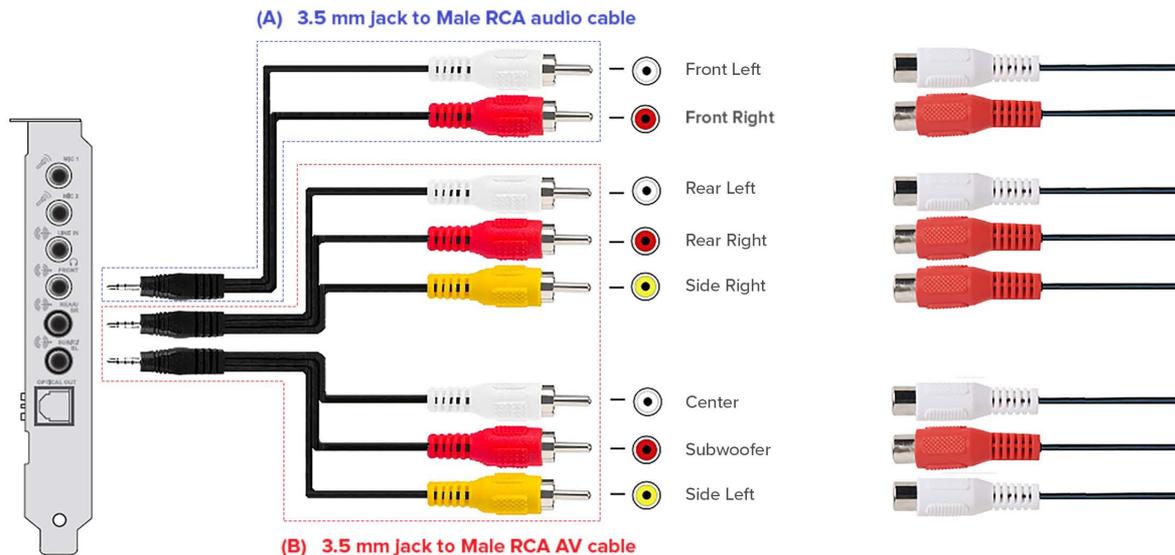
	Description		Description
1.	Line-out 1 Jack (Front Left / Right)	8.	Rear Right
2.	Line-out 2 Jack (Rear Left / Right / Side Right)	9.	Ground
3.	Line-out 3 Jack (Center / Sub / Side Left)	10.	Side Right
4.	Front Left	11.	Center
5.	Front Right	12.	Subwoofer
6.	Ground	13.	Ground
7.	Rear Left	14.	Side Left

Connecting Sound Blaster Audigy Rx to 7.1 Speaker System with Female RCA Connectors

The diagram below illustrates the cables required (purchased separately) to connect 7.1 speaker systems with female RCA connectors to the Sound Blaster Audigy Rx.

Sound Blaster Audigy Rx

7.1 Speaker System with Female RCA Connectors



Cables required (available on major online stores)	
<p>(A) 1 set of 3.5 mm jack to Male RCA audio cable</p> <ul style="list-style-type: none"> • For Front Left and Front Right 	
<p>(B) 2 sets of 3.5 mm jack to Male RCA AV cable</p> <ul style="list-style-type: none"> • 1 set for Rear Left, Rear Right, and Side Right • 1 set for Center / Sub and Side Left 	

Notes

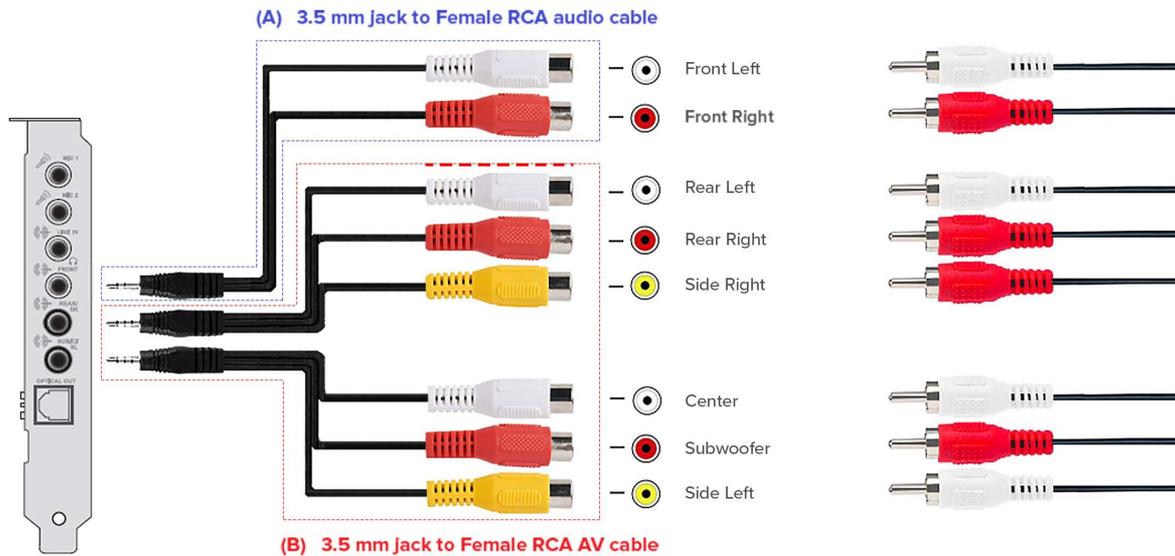
- Different speaker systems may implement the connection for 7.1 differently, hence, the actual connection may vary. Try swapping between the White, Red, or Yellow connectors to get the correct channels.

Connecting Sound Blaster Audigy Rx to 7.1 Speaker System with Male RCA Connectors

The diagram below illustrates the cables required (purchased separately) to connect 7.1 speaker systems with male RCA connectors to the Sound Blaster Audigy Rx.

Sound Blaster Audigy Rx

7.1 Speaker System with Male RCA Connectors



Cables required (available on major online stores)	
<p>(A) 1 set of 3.5 mm jack to Female RCA audio cable</p> <ul style="list-style-type: none"> • For Front Left and Front Right 	
<p>(B) 2 sets of 3.5 mm jack to Female RCA AV cable</p> <ul style="list-style-type: none"> • 1 set for Rear Left, Rear Right, and Side Right • 1 set for Center / Sub and Side Left 	

Notes

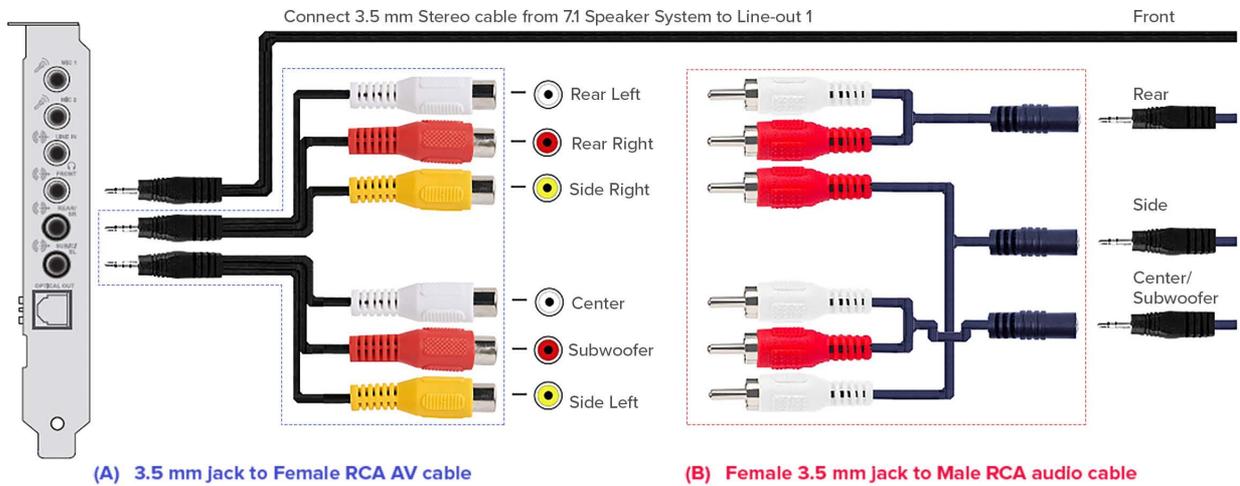
- Different speaker systems may implement the connection for 7.1 differently, hence, the actual connection may vary. Try swapping between the White, Red, or Yellow connectors to get the correct channels.

Connecting Sound Blaster Audigy Rx to 7.1 Speaker System with Male 3.5 mm Connectors

The diagram below illustrates the cables required (purchased separately) to connect 7.1 speaker systems with male 3.5 mm connectors to the Sound Blaster Audigy Rx.

Sound Blaster Audigy Rx

7.1 Speaker System with 3.5 mm Male Connectors



Cables required (available on major online stores)	
<p>(A) 2 sets of 3.5 mm jack to Female RCA AV cable</p> <ul style="list-style-type: none"> • 1 set for Rear Left, Rear Right, and Side Right • 1 set for Center / Sub and Side Left 	
<p>(B) 3 sets of Female 3.5 mm jack to Male RCA audio cable</p> <ul style="list-style-type: none"> • Intermediate connectors to 7.1 speaker system's Male 3.5 mm connectors 	

Notes

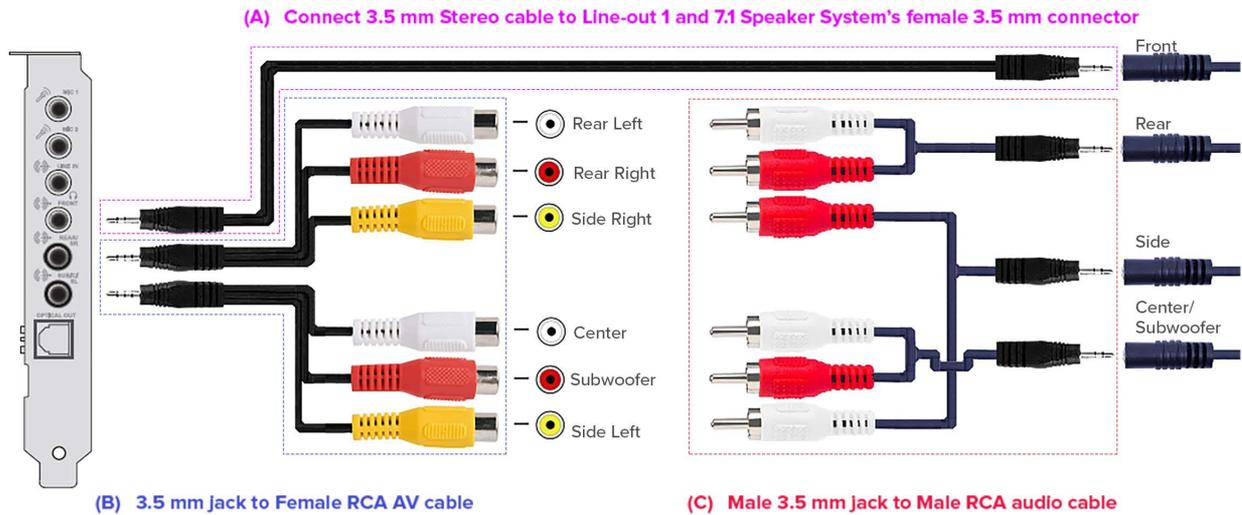
- Different speaker systems may implement the connection for 7.1 differently, hence, the actual connection may vary. Try swapping between the White, Red, or Yellow connectors to get the correct channels

How to connect the Sound Blaster Audigy Rx to 7.1 Speaker System with Female 3.5 mm Connectors

The diagram below illustrates the cables required (purchased separately) to connect 7.1 speaker systems with female 3.5 mm connectors to the Sound Blaster Audigy Rx.

Sound Blaster Audigy Rx

7.1 Speaker System with 3.5 mm Female Connectors



Cables required (available on major online stores)	
<p>(A) 1 set of 3.5 mm Stereo to 3.5 mm Stereo cable</p> <ul style="list-style-type: none"> • For Front Left and Front Right 	
<p>(B) 2 sets of 3.5 mm jack to Female RCA AV cable</p> <ul style="list-style-type: none"> • 1 set for Rear Left, Rear Right, and Side Right • 1 set for Center / Sub and Side Left 	
<p>(C) 3 sets of Male 3.5 mm jack to Male RCA audio cable</p> <ul style="list-style-type: none"> • Intermediate connectors to 7.1 speaker system's Female 3.5 mm connectors 	

Notes

- Different speaker systems may implement the connection for 7.1 differently, hence, the actual connection may vary. Try swapping between the White, Red, or Yellow connectors to get the correct channels.

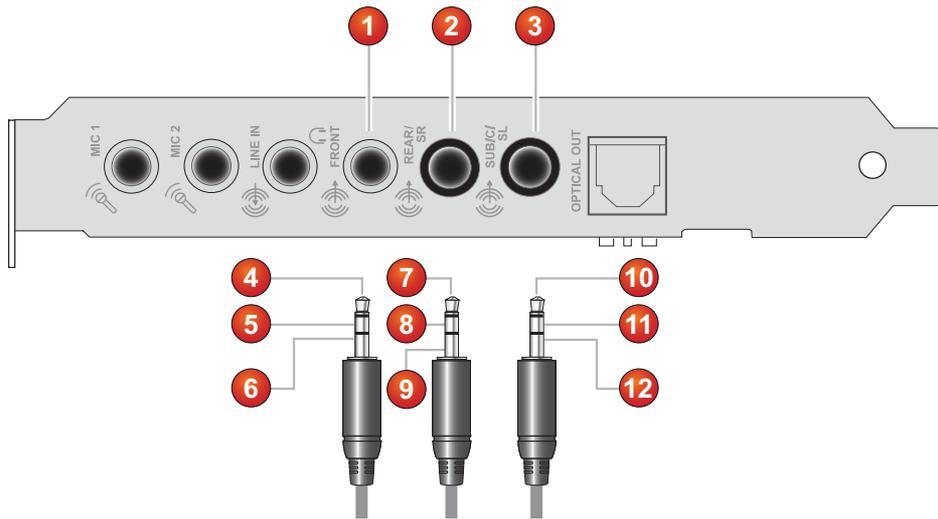
Connectivity

Audio Inputs /Outputs

- Two 3.5 mm (1/8-inch) Mono Microphone-ins
- One 3.5 mm (1/8-inch) Line-in
- One 3.5 mm (1/8-inch) Front speaker Left / Right or Amplified Headphone-out
- One 3.5 mm (1/8-inch) Rear Rear Left / Right / Side Right-out for 4 / 4.1, 5.1, 7.1 for analog audio-out
- One 3.5 mm (1/8-inch) Center / Subwoofer / Side Left jack
- One Optical-out SPDIF TOSLINK jack for digital-out
- One Intel HD Front Panel connector

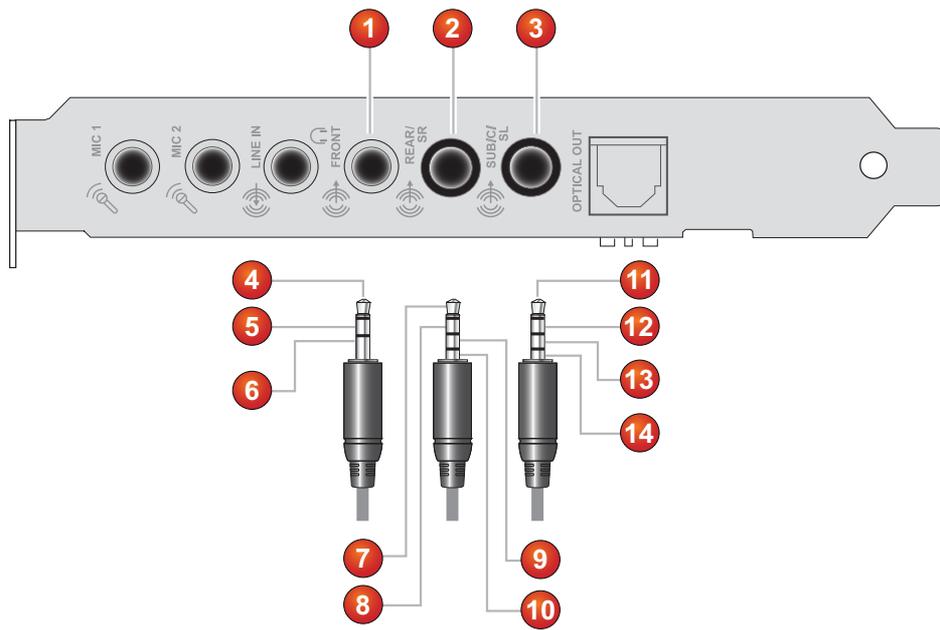
Stereo and 4-Pole Jack Diagrams

5.1 channel analog audio



	5.1 channel analog audio
1.	Line-out 1 jack
2.	Line-out 2 jack
3.	Line-out 3 jack
4.	Front Left
5.	Front Right
6.	Ground
7.	Rear Left
8.	Rear Right
9.	Ground
10.	Center
11.	Subwoofer
12.	Ground

7.1 channel analog audio



	7.1 channel analog audio
1.	Line-out 1 jack
2.	Line-out 2 jack
3.	Line-out 3 jack
4.	Front Left
5.	Front Right
6.	Ground
7.	Rear Left
8.	Rear Right
9.	Ground
10.	Side Right
11.	Center
12.	Subwoofer
13.	Ground
14.	Side Left

Using Sound Blaster Audigy Rx Applications

The following softwares are designed for you to access the basic as well as the advanced features of your audio card. We recommend that you familiarize yourself with their functions in order to make full use of the rich features of Sound Blaster Audigy Rx.

To learn more about each application, please refer to its online help. Depending on the application, you can do this by clicking  on the toolbar of the application, or selecting **Help Topics** from the **Help** menu.

Introduction to the Sound Blaster Audigy Rx software suite

- Sound Blaster Audigy Rx Control Panel (Supports Windows 11 / 10)
- Sound Blaster Audigy Rx EAX Studio (Supports Windows 11 / 10)
- Creative Smart Recorder (Provided as is, supports up to Windows 7)
- Creative Karaoke Player (Provided as is, supports up to Windows 8)
- Creative Open AL / EAX 4.0 (Provided as is, supports up to Windows 7)
- Creative WaveStudio (Provided as is, supports up to Windows 7)

Notes

- The applications included with Sound Blaster Audigy Rx may differ from those described here.

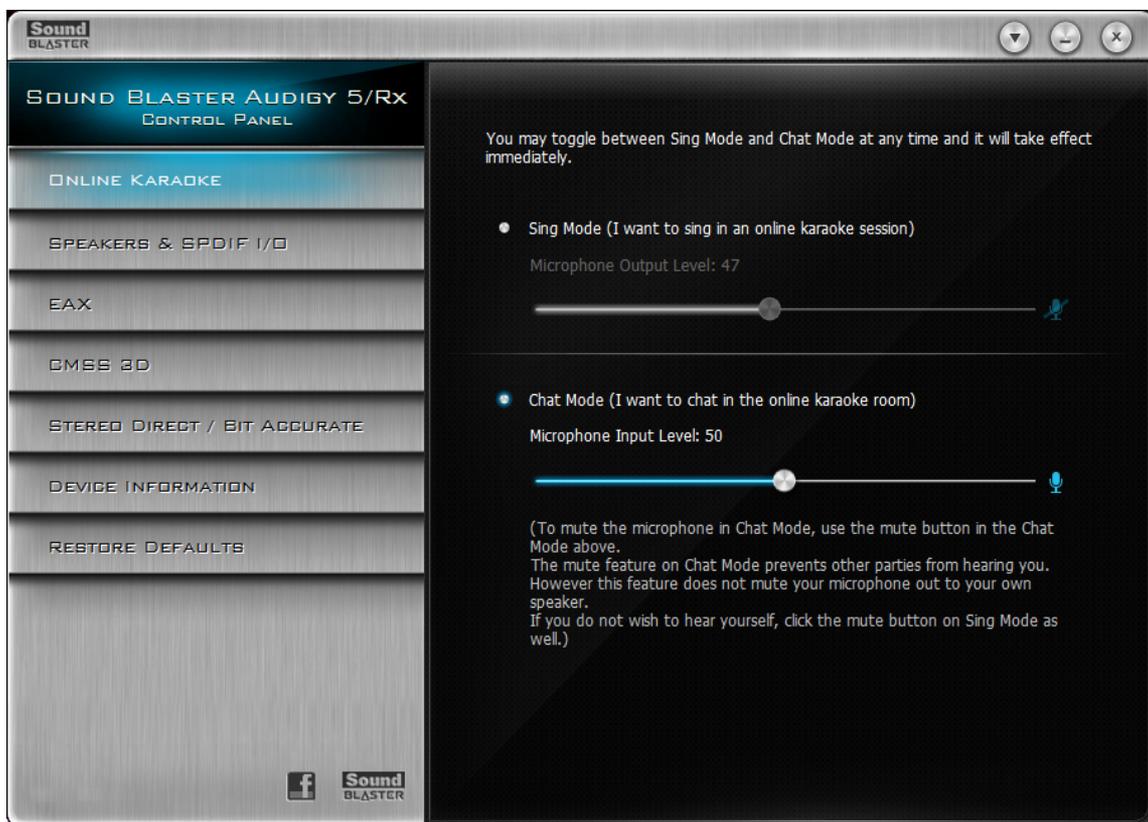
Using Your Sound Blaster Audigy Rx Control Panel

The Sound Blaster Audigy Rx Control Panel provides navigation of Karaoke centric functions such as mic monitoring and stereo mixing, reverb and pitch shift effects, switching between singing and chatting —all in an easy-to-use interface.

Online Karaoke Settings

You can now easily toggle between **Sing Mode** or **Chat Mode**. Switch between Sing Mode and Chat Mode at any time and it will take effect immediately. Choose only one mode at a time.

- Choose **Sing Mode** if you want to enter an online karaoke singing session.
- Choose **Chat Mode** if you want to chat in an online karaoke room.



Initializing Sing Mode for use with 3rd party karaoke programs

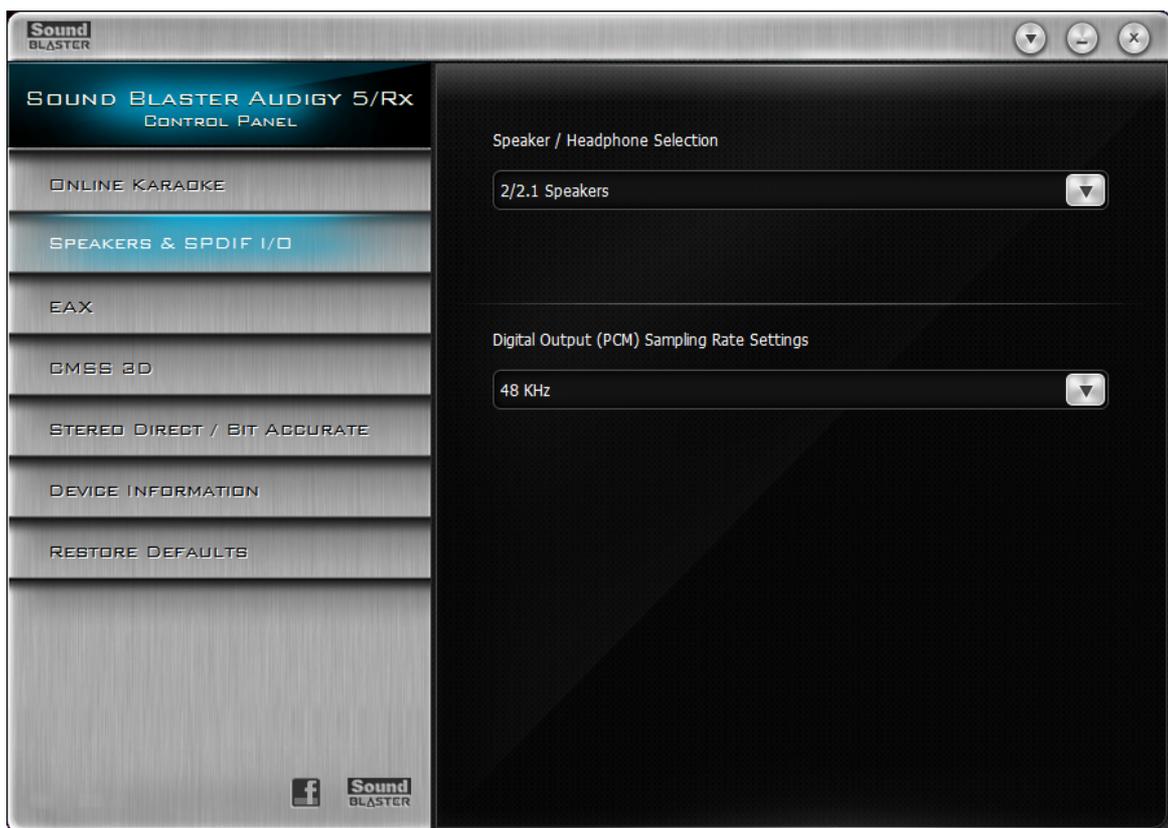
The default settings of Online Karaoke is mute on all the recording sources except Mic-in. On *Chat Mode*, the Mic-in is a record source. You need to initialize the Mic-in settings when you want to enter an online singing session using 3rd party karaoke programs.

1. On the **Online Karaoke** tab, click the **Chat Mode** option.
2. When it is your turn to sing, switch to *Sing Mode*, by clicking the **Sing Mode** option.

Muting your Chat Mode

The mute feature on *Chat Mode* prevents other parties from hearing you. However, this feature does not mute your microphone out to your own speaker. If you do not wish to hear yourself, click the  icon on *Sing Mode* as well.

Speakers & SPDIF I/O Settings



Selecting a speaker configuration

1. Click the **Speakers & SPDIF I/O** tab.
2. On the **Speaker / Headphone Selection** dropdown list, select a speaker configuration that you want.
3. Only for Windows XP users: To ensure that your speaker settings are always synchronized with *Sound Blaster Rx Control Panel* and *Windows Control Panel*, click the **Synchronize with Microsoft Windows Control Panel** checkbox. Only enable this synchronizing feature if you regularly play games or install new applications, which can automatically readjust your speaker settings in *Windows Control Panel*.

Selecting a Digital Output Sampling Rate

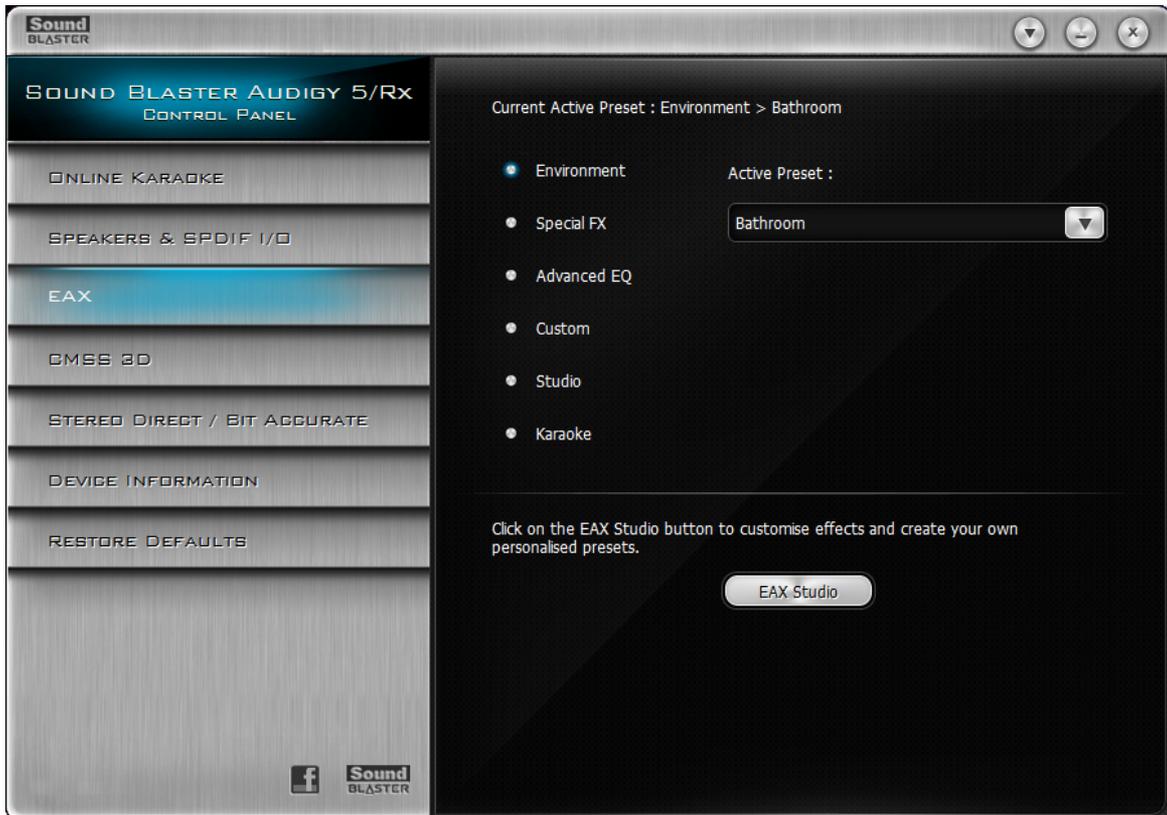
1. On **Sound Blaster Audigy Rx Control Panel**, click the **Speakers & SPDIF I/O** tab.
2. Click the **Digital Output (PCM) Sampling Rate Settings** dropdown list and click the required sampling rate.

The sampling rate of the PCM SPDIF-out of your Digital-out connector must match the requirements of the receiving device.

EAX Settings

The **EAX** tab allows you:

- To launch the *Sound Blaster Audigy Rx EAX Studio* application
- To manage the various parameters of your effects
- To select factory presets and customize them into personalized effects



Applying EAX audio effects

1. On the **Sound Blaster Audigy Rx Control Panel**, click the **EAX** tab.
2. On the left column, select the audio effect category that you want.
3. On the **Active Preset** dropdown list, click the preset that you want to apply to your audio. The list of presets available depend on the audio effect selected in Step 2.
4. Click the **EAX Studio** button to launch *Sound Blaster Audigy Rx EAX Studio* and consequently customize EAX effects and create your own personalized presets.

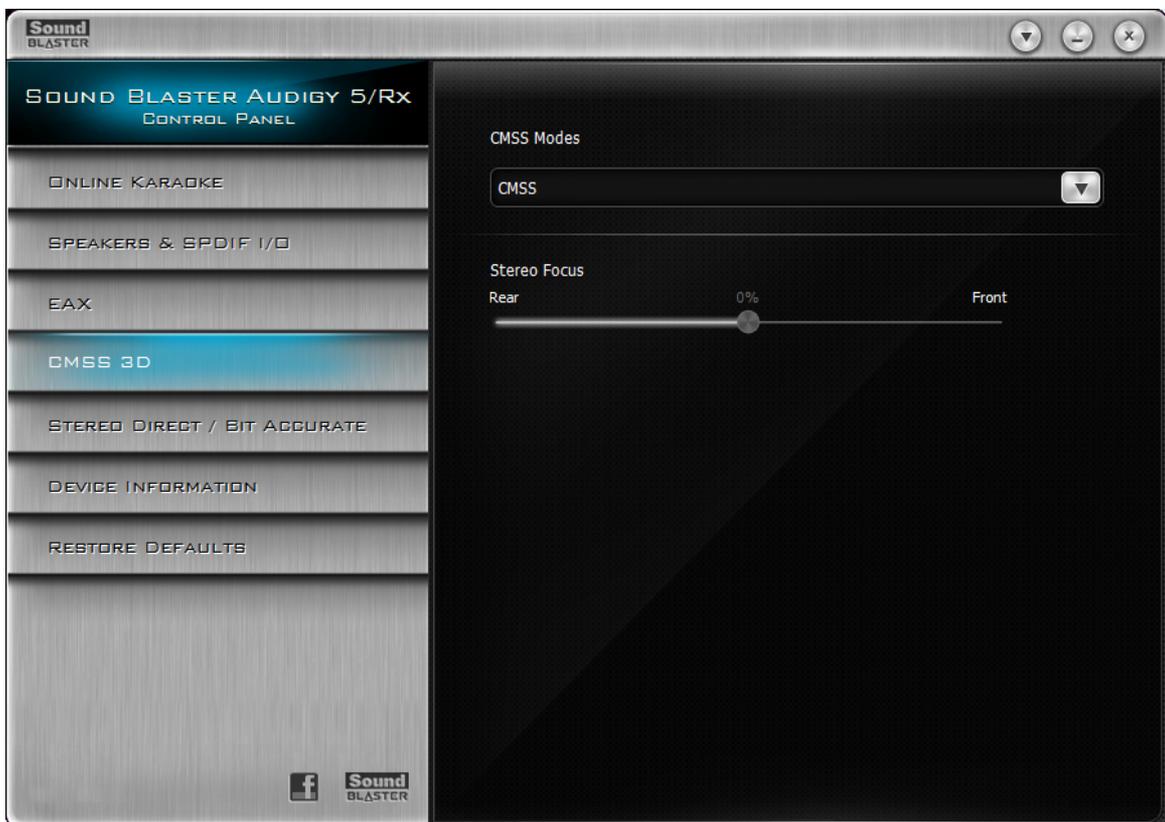
Applying Hardware Microphone Effects

1. On the **EAX** tab, click the **Karaoke** preset.
2. Adjust the effects amount of each of the **Karaoke** presets according to your preferences.

CMSS 3D Settings

CMSS 3D allows you:

- To enable or disable CMSS 3D Surround.
- To select Creative Multi Speaker Surround (CMSS) for an enhanced soundfield for playback of stereo or multichannel audio content. You can enjoy rich 3D virtual surround sound with headphones or 2-speaker systems, and expanded multi-channel sound with 4 / 4.1, 5.1 or 7.1 speaker systems.
- To select Stereo Surround to duplicate the front channel audio to all surround speakers.
- To position sound to the front or rear of your speaker system by dragging the **Stereo Focus** slider.
- To enhance your music listening experience by widening the stereo sound field and adding depth by dragging the **Stereo Focus** slider. Your speakers will sound as if they are placed further apart than they really are.



Configuring Your CMSS

You can configure CMSS to create a surround effect for headphones or multi-channel surround sound speaker systems.

1. Click the **CMSS 3D** tab.
2. Click the **CMSS Modes** dropdown list and select the **CMSS** mode that you want.
3. Drag the **Stereo Focus** slider to position sound to the front or rear of your speaker system.

Stereo MP3, WMA, CD music, and other digital audio may only playback on the two front speakers in a multi-channel speaker system. With CMSS Sound you can enjoy stereo music and movies in captivating surround sound. You can, however, choose to "upmix" the audio so that it is heard from all your surround speakers (if available)

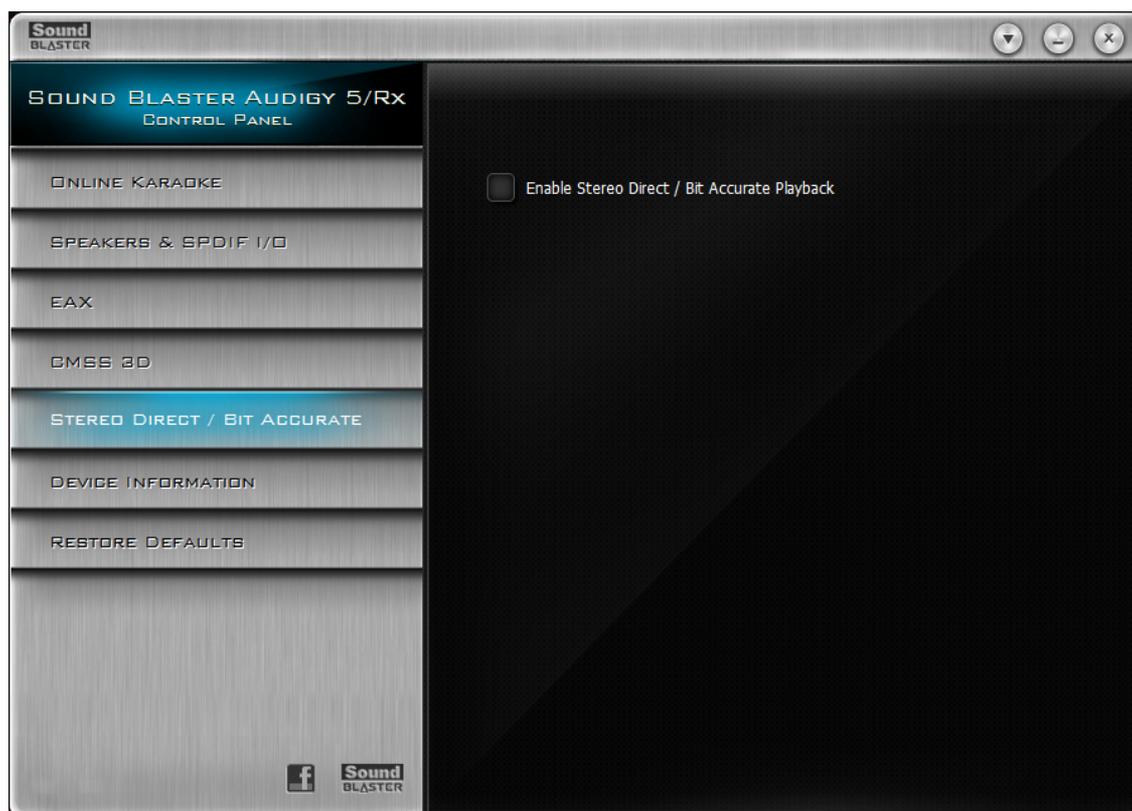
Configuring to upmix audio to all your surround speakers:

1. Click the **CMSS 3D** tab.
2. From the **CMSS Modes** dropdown list, select **CMSS** or **Stereo Surround**.

- CMSS delivers rich 3D virtual surround sound with headphones or 2-speaker system, and multi-channel audio playback with 4.1, 5.1 or 7.1 speaker systems.
- Stereo Surround duplicates the front channel audio to all surround speakers without any artificial enhancements.

Stereo Direct / Bit Accurate Settings

Enabling Stereo Direct / Bit Accurate mode allows you to play back audio data directly from the source without any audio enhancements or modifications.



Enabling Stereo Direct / Bit Accurate mode

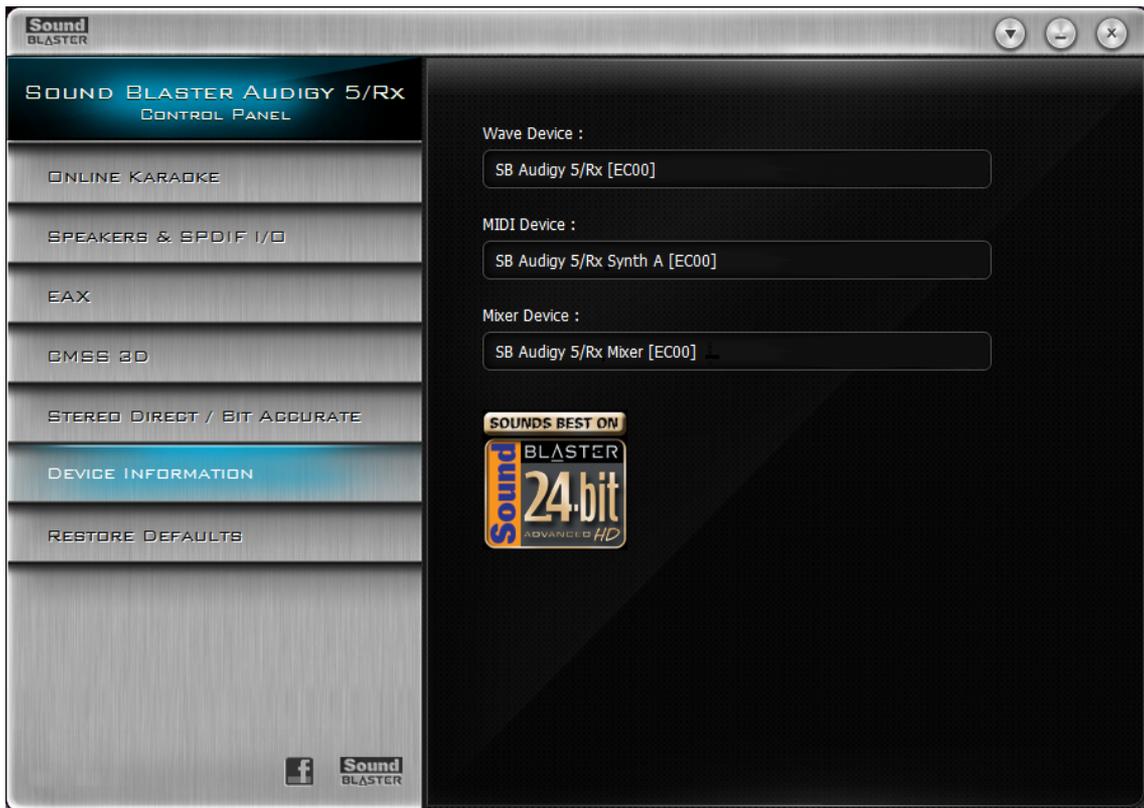
1. On **Sound Blaster Rx Control Panel**, click the **Speaker & SPDIF I/O** tab. Ensure that the **Speaker / Headphone Selection** is set to **2 / 2.1 Speakers**.
2. Click the **Stereo Direct / Bit Accurate** tab.
3. Click the **Enable Stereo Direct / Bit Accurate Playback** checkbox.
4. Go to **Control Panel (Windows) > Sound > Playback** tab. Select **Sound Blaster Rx > Properties > Advanced** tab. Ensure that the **Default Format** is set to **24 bit, 192000 Hz (Studio Quality)**.
5. Start your audio playback.

Notes

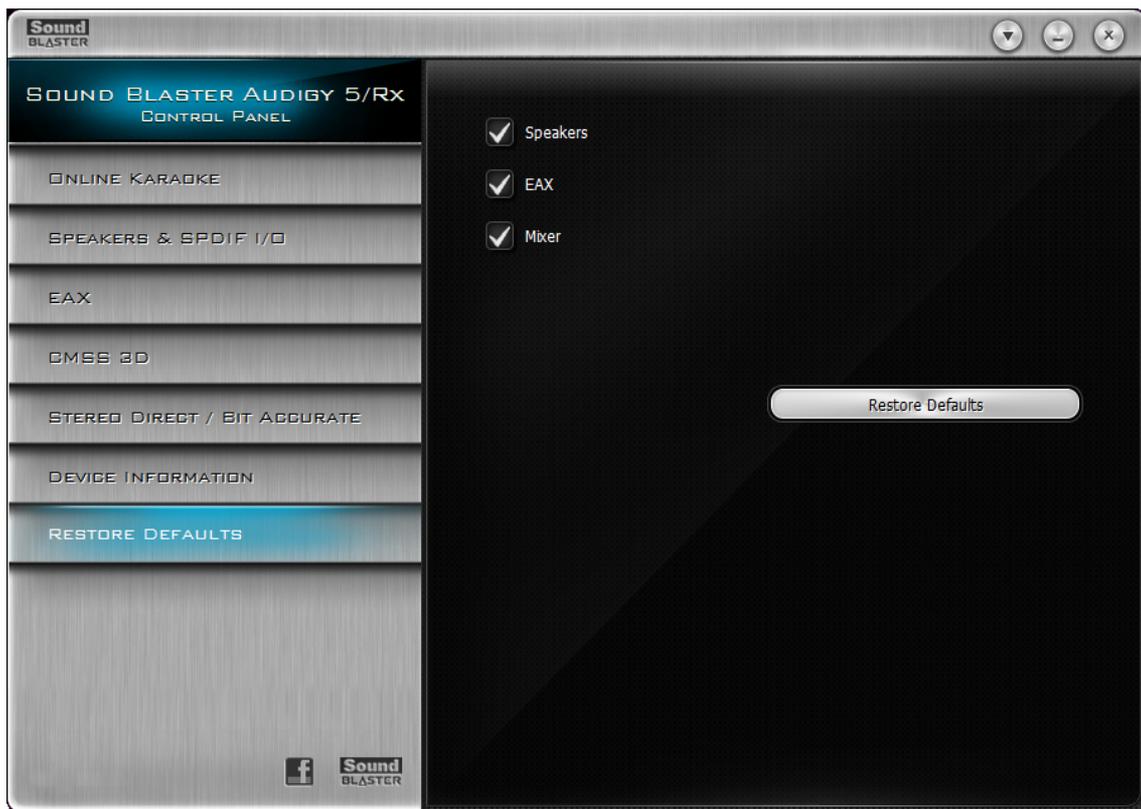
1. Stereo Direct / Bit Accurate mode is only applicable to WAV files with the following specifications:
 - Stereo format
 - PCM audio data
 - 16-bits and above
 - 44.1, 48, 96 or 192 kHz
2. Once Stereo Direct / Bit Accurate playback starts, the digital output sampling rate is automatically set to the current playback's sampling rate.
3. When Stereo Direct / Bit Accurate mode is applied to the playback, adjusting the volume control or applying EAX effects will not have any effect on digital-out signals.

Device Information Settings

Three devices are shown on the **Device Information** page. This page shows the settings of your Wave Device, MIDI Device and Mixer Device.



Restore Defaults Settings



Restoring default settings

1. Click the **Restore Defaults** tab.
2. The right panel shows three defaults, the **Speakers**, **EAX**, and **Mixer** checkboxes. To restore any of these to their default settings:
 - i. Click the **Speakers** checkbox.
The default setting is the selected speaker configuration during installation.
 - ii. Click the **EAX** checkbox.
The default audio effects setting is the **No Effects** preset.
 - iii. Click the **Mixer** checkbox.
All mixer levels are set to factory default settings.
3. Click the **Restore Defaults** button.

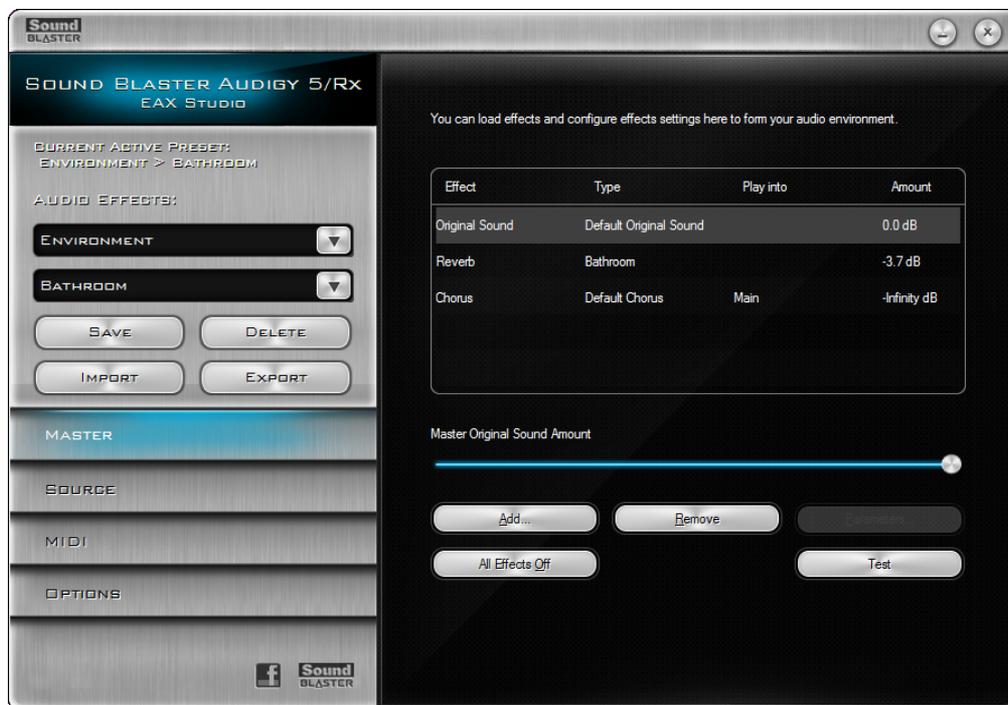
Using Your Sound Blaster Audigy Rx EAX Studio

Sound Blaster Audigy Rx EAX Studio offers dramatically increased 3D audio performance and functionality, delivering superior audio fidelity and fully customizable environmental effects with import and export functions, for an unsurpassed karaoke experience.

Launching Sound Blaster Audigy Rx EAX Studio:

1. Go to **Sound Blaster Audigy Rx Control Panel**, and click the **EAX** tab.
2. Click the **EAX Studio** button.

By default, the **Sound Blaster Audigy Rx EAX Studio** opens to its **Master** tab.



Managing your Audio Effects Settings

On the **Audio Effects** panel, you can save, delete, import and export audio effects.



Importing an Audio Effect into the Audio Effects list

1. Go to **Sound Blaster Audigy Rx EAX Studio** **Audio Effects** panel and, click the **Import** button.
2. On the **Import** dialog box, select the .AUP file that has the audio effect you want to import.

Exporting the last-saved Audio Effect into a file

1. Go to **Sound Blaster Audigy Rx EAX Studio** → **Audio Effects** panel and, click the **Export** button.
2. Save the effects by using the recommended name or rename as you like.
The audio effect name remains unchanged.

Turning Off All Audio Effects for the current Audio Effect

You may want to turn off all effects if you find that you have changed the effects amounts to unacceptable levels, producing an unwelcome distortion. All audio effects will be turned off except **Original Sound**, that is, their values will be set to 0%. After clearing, you can resume adjusting the level of the effects again.

1. Go to **Sound Blaster Audigy Rx EAX Studio** → **Master** tab.
2. Click the **All Effects Off** button.
This option is a shortcut that manually resets the amount of each effect except for **Original Sound**.

Saving / Deleting Audio Effects

An audio effect setting can be saved either as a user-defined audio effect or, or as a modified factory audio effect. Save the settings as a new user-defined audio effect:

1. On the bottom box of the **Audio Effects** panel, type a new name or the name of an existing user-defined audio effect and then click the **Save** button
2. If you do not want the audio effect anymore, click the **Delete** button.

Testing the effect of an Audio Effect

To test effects, you must use a Wave file as the testbed. You can test the master and the source settings of the effects of an audio effect. You can also test an effect as you are creating or modifying it.

1. If a Wave file is already open for testing, skip Steps 1 to 3 and go directly to Step 4.
Otherwise, on **Sound Blaster Audigy Rx EAX Studio**, click the **Options** tab.
2. Click the **Select File** button.
3. On the **Select Wave File to Audition** dialog box, click the Wave file you want, and then click the **OK** button.
4. Click the **Test** button found on either the **Master** page or **Source** page.
5. The selected Wave file will play continuously until you click the **Stop** button.

Testing the effect on Master settings

1. On the **Master** page, click the audio effect you want to test, and then click the effect to change.
2. Drag slider to determine the value you want. The value is reflected on the **Amount** column of the **Effects** list.
3. The amount set applies even when the effect type is changed.
Repeat this step for every master effect you want to configure.

Testing the effect on Source settings

1. On the **Source** page, click the source whose effect amount you want to change.
2. Click the **Effect** and drag slider to determine the amount you want.
The amount is reflected on the **Amount** column of the **Effects** list.
Repeat this step for every audio source you want to configure.
3. When you are satisfied with the **Amount** changes, click the **Stop** button.

Testing an Effect as you are creating or modifying it

See **Modifying an Effect's Parameters**.

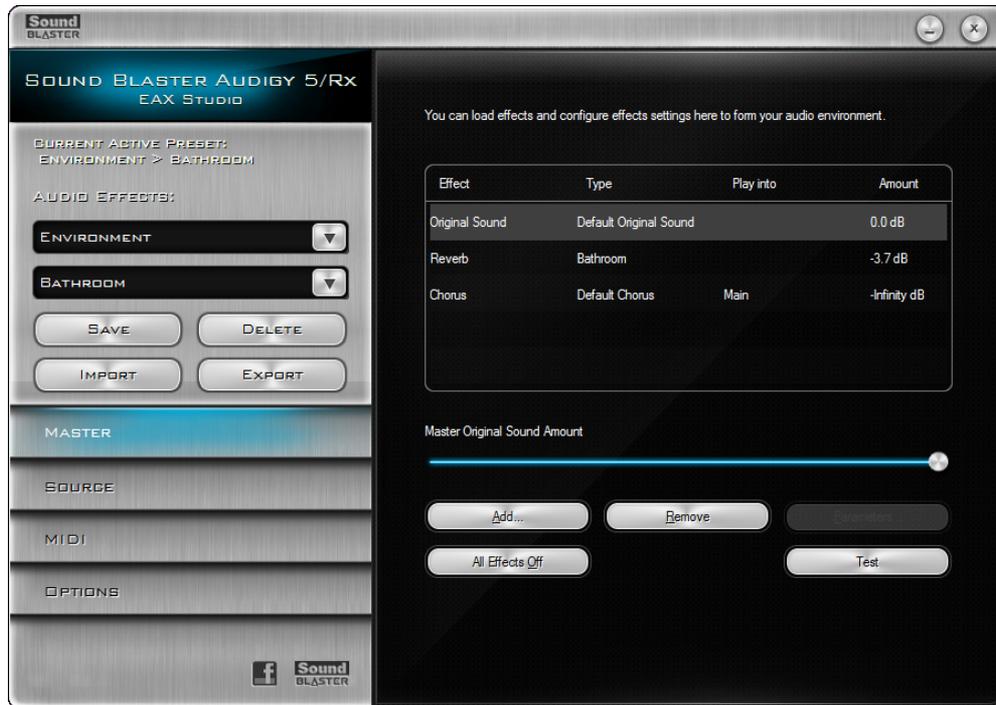
Notes

- If you modify the audio effect but did not save it, what you export will be its last-saved settings. You can use this file to share with your friends the audio effect you have created.
- If you want to rename the audio effect, rename the file before importing it or save the imported audio effect using another name.

Master Effects Settings

On the **Master** tab you can define your audio effects by specifying the effects and their Master settings. This page allows you:

- To add to or remove effects from an audio effect
- To specify the effect **Type**, and the degree or **Amount** of the effect
- To control an effect all the way down to its building block or **Parameter** level

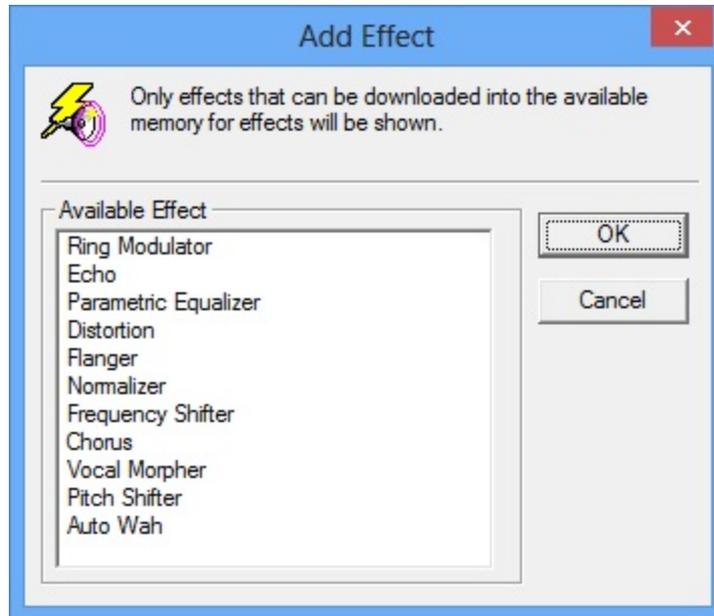


Configuring the Master settings for the Effects of an Audio Effect

1. Go to **Sound Blaster Audigy Rx EAX Studio** → **Audio Effects** panel, and click the top box and select the audio effect category that you want to configure.
2. Click the bottom box and then select the audio effect that you want to modify.
3. Save the changes on the audio effect:
 - Save the changes as a user-defined audio effect by typing a new name or the name of an existing user-defined audio effect on the bottom box on the **Audio Effects** panel, and then click the **Save** button.
 - For a factory audio effect, you can revise it and save under the same name, in effect saving over itself.
4. Click the **Master** tab.

Adding an Effect to the Audio Effect

1. Click the **Add** button. The **Add Effect** dialog box opens.
2. On the **Add Effect** dialog box, select one or more effects by pointing your mouse and holding the **Ctrl** key simultaneously.



3. Click the **OK** button. The added effect would appear on the **Effects** list. A maximum of four **Effects** can be applied.
4. Repeat Steps 1-3 until you are satisfied with the configuration, then save the settings of an audio effect.

Changing the Type of Effect

1. Click the **Type** entry on the **Effects** list
2. Select from the dropdown list.

Playing the Effect-applied sound into another channel

1. Click the **Play Into** entry on the **Effects** list.
2. Select from the dropdown list.

Testing an Effect and changing its Amount

See **Managing your Audio Effects Settings**

Changing an Effect's Parameters

- Double-click the **Effect**. OR
- Select the effect from the list, and then click the **Parameters** button.

See **Modifying an Audio Effect's Parameters** for details.

Removing an Effect from the Audio Effect

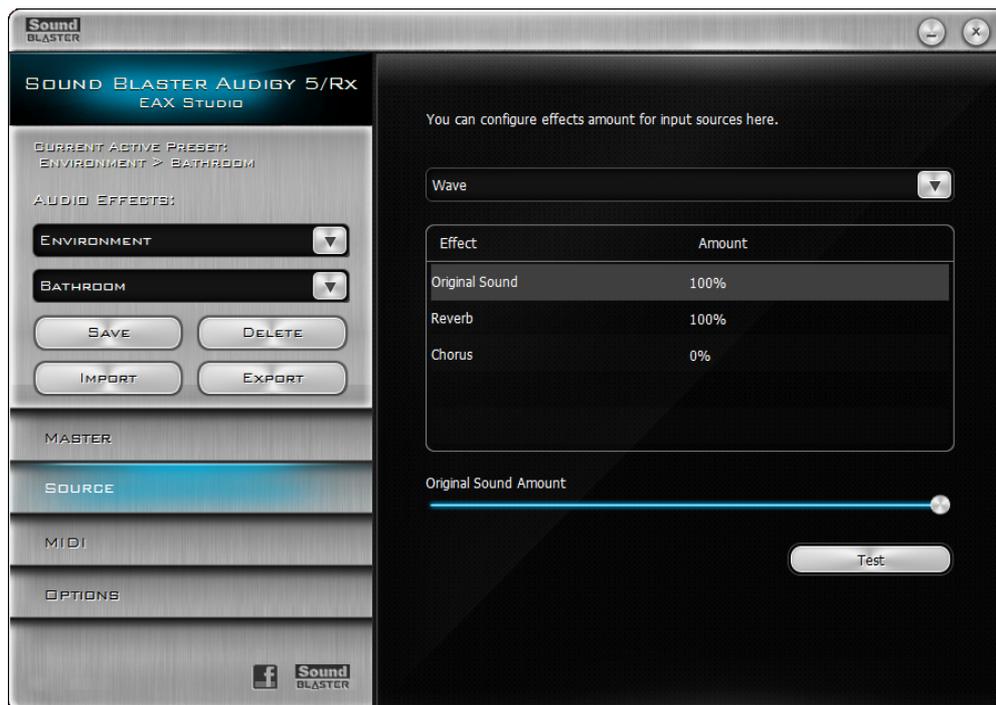
Click the **Effect**, and then click the **Remove** button.

Notes

- When you select the **Always Save Changes Automatically** checkbox on the **Options page**, your revised settings will be saved when you quit from **Sound Blaster Audigy Rx EAX Studio**. You cannot revert an audio effect to its last saved settings unless you clear this checkbox.
- **Original Sound**, **Reverb** and **Chorus** are default factory effects that cannot be deleted. The **Save**, **Export** and **Delete** buttons are disabled.
- To set the amount of effects to apply at the audio source level, go to the **Source** page.
- The overall amount settings for effects is a combination of the Master Effects settings and the Source Effects settings.

Source Effects Settings

The **Source** tab allows you to set the amount of the effects to apply on an audio source.



Changing the Amount of the Effects for an audio source

1. On **Sound Blaster Audigy Rx EAX Studio**, click the **Source** tab.
2. On the **Select Source** box, click the source whose effect amount you want to modify.
 - Repeat Step 2 for as many audio sources as you want to configure.
 - You can test the effect on the Audio source and change its amount, see **Managing Your Audio Effects Settings**.
3. When you are satisfied with the configuration, save the settings into the current audio effect or, the factory audio effect.
To save the settings as a new audio effect:
 - i. Type a new name or the name of an existing user-defined audio effect in the bottom box on the **Audio Effects** panel, and then click the **Save** button.
 - ii. If you do not want the audio effect anymore, click the **Delete** button.

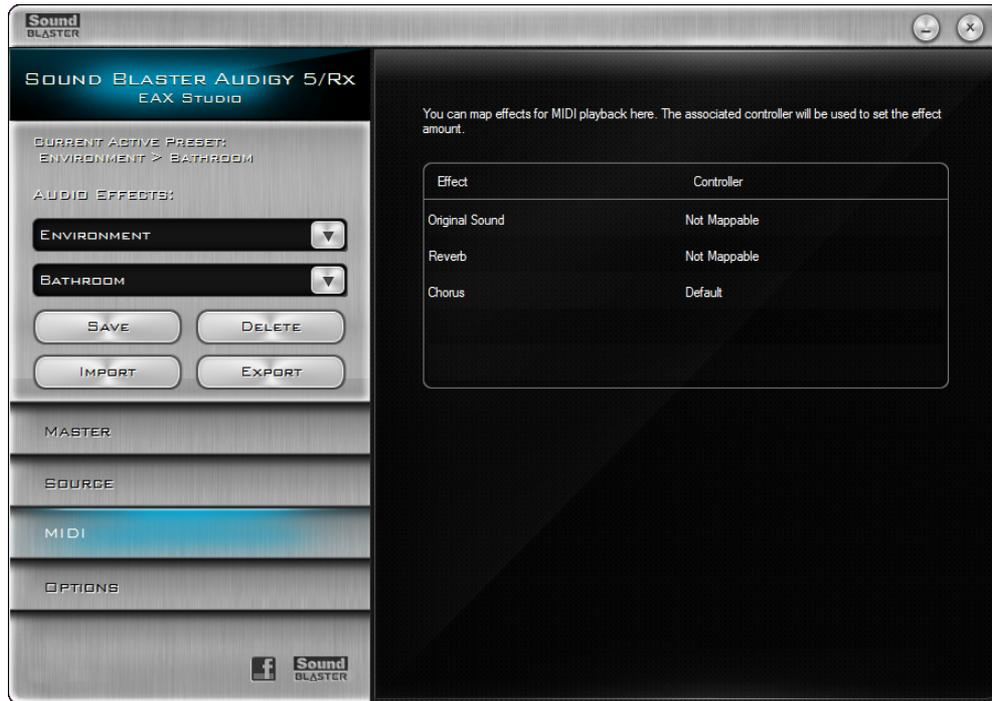
Notes

- When you select the **Always Save Changes Automatically** checkbox on the **Options** page, your revised settings will be saved when you quit from **Sound Blaster Audigy Rx EAX Studio**. The audio effect cannot revert to its original settings unless the checkbox is cleared.
- You cannot add effects to an audio effect, remove or change their parameters from the **Options** page. To do so, go to the **Master** page.
- The overall amount settings for effects is a combination of the Master Effects settings and the Source Effects settings.

MIDI Settings

On the MIDI page, you can map effects for MIDI playback. This page allows you

- To set the effect amount
- To insert the controller command when you are authoring a MIDI file in a MIDI sequencer program



Configuring effects for MIDI playback

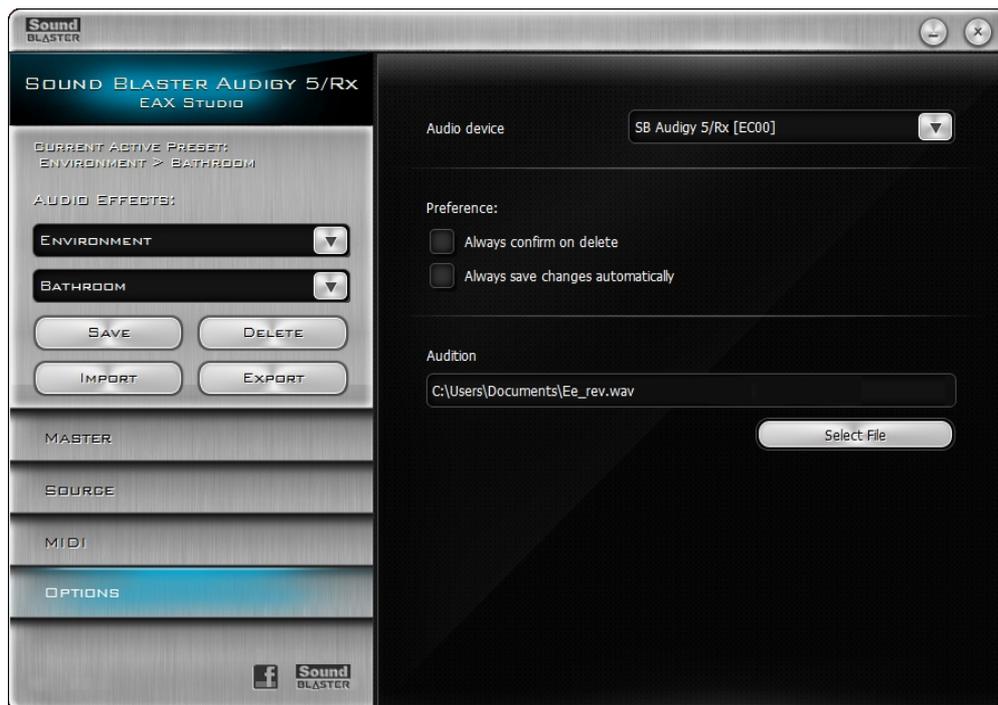
1. On **Sound Blaster Audigy Rx EAX Studio**, click the **MIDI** tab.
2. To assign a MIDI controller to an effect, click the **Controller** value on the **Effects** list and select from the dropdown list.
3. To change the effect amount, go to a MIDI sequencer program to specify the **Controller** value when you insert the controller command.
4. To assign another MIDI controller to an effect, repeat step 2.
5. When you are satisfied with the configuration, save the settings into the current audio effect or the factory audio effect.

To save the settings as a new audio effect

- i. On the bottom box of the **Audio Effects** panel, type a new name or the name of an existing user-defined audio effect, and then click the **Save** button
- ii. If you do not want the audio effect anymore, click the **Delete** button.

Options Settings

The **Options** tab allows you to select an Audio Device and set Preferences



Selecting the Audio Device

1. On **Sound Blaster Audigy Rx EAX Studio**, click the **Options** tab.
2. From the **Audio Device** dropdown list, click the device you want to use.
The device is immediately selected.

Testing a Wave file

1. On **Sound Blaster Audigy Rx EAX Studio**, click the **Options** tab.
2. Click the **Select File** button.
3. On the **Select Wave File to Audition** dialog box, click the Wave file you want, and then click the **OK** button.
4. Click the **Test** button found on either the **Master** page or **Source** page.

The selected Wave file is played continuously until you click the **Stop** button.

For details on testing audio effects, see **Managing Your Effects Settings** and **Modifying an Audio Effect's Parameters**.

Setting Preferences

- To ensure that you receive a confirmation from the system whenever you delete an effect, select **Always Confirm On Delete** checkbox.
If you do not want a confirmation, clear the checkbox.
- To ensure that your settings are automatically saved when you close the dialog box, select the **Always Save Changes Automatically** checkbox.
If you do not want an automatic save on closing, clear the checkbox.

Notes

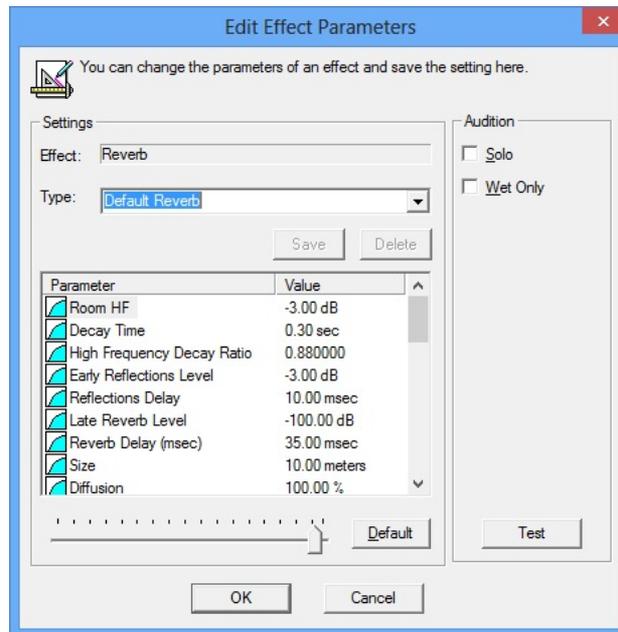
- If the **Always Save Changes Automatically** option is on, you may accidentally save settings that you do not want. There is no way for you to revert your audio effect to the last-saved setting.

Modifying an Audio Effect's Parameters

The parameters for a particular type of effect and their values appear on the **Parameter** list of the **Edit Effect Parameters** dialog box. To open the dialog box, on the **Effects** list double-click the specific **Effect** entry you want to modify. Alternatively, you can also click the **Parameters** button.

Modifying, Testing and Saving a Parameter

1. On the **Edit Effect Parameters** dialog box, select a **Parameter** you want to modify.
2. Drag slider at the bottom of the dialog box according to your preference.



At this point, you may want to check the changes you have made on the **Parameter**. Steps 3 to 9 shows you how.

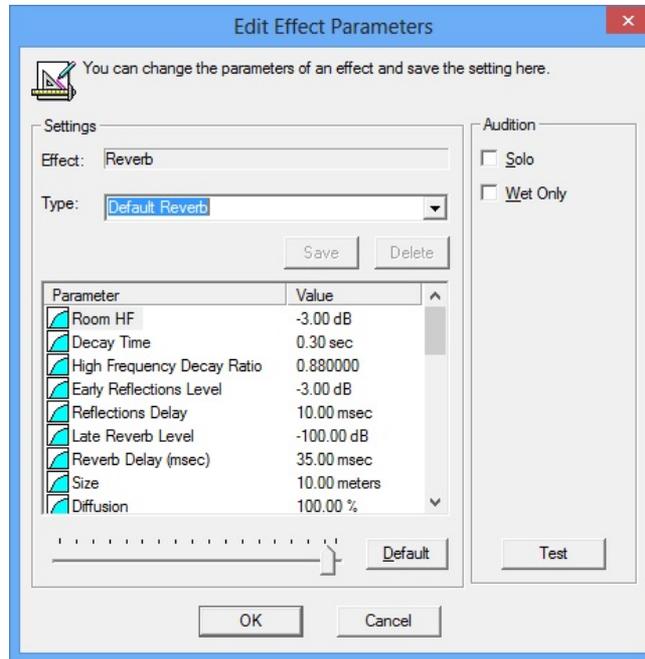
3. If a Wave file is already open for testing, go directly to Step 4.
Otherwise, on **Sound Blaster Audigy Rx EAX Studio**, click the **Options** tab.
4. Click the **Select File** button.
5. On the **Select Wave File to Audition** dialog box, click the Wave file you want, and then click the **OK** button.
6. Click the **Test** button.
Alternatively, you can also use the **Test** button on the **Master** page or **Source** page.
7. Click the **Stop** button to stop the Wave file playback.
The selected Wave file will play continuously until you click the **Stop** button. The **Stop** button appears on the exact location of the **Test** button.
8. When you are satisfied with the changes, save your new settings of your **Parameter** as a new **Type**. Enter a new name or the name of an existing custom **Type** on the **Type** box.
9. Click the **OK** button to close the **Edit Effect Parameters** dialog box.
The items on the **Effects** list return to their normal values.

Repeat Steps 1 to 2 for as many **Parameters** that you want to modify.

Repeat Steps 3 to 9 to test the changes made.

Testing an Effect in the absence of other Effects

When testing an effect, you may want to check it in the absence of other effects for a "true" representation. To do so, make sure to select the **Solo** checkbox on the **Edit Effect Parameters** dialog box.



- The other effects (excluding **Original Sound**) on the **Master** page will be reset to zero. The effects will go back to their original amounts when you quit the **Edit Effect Parameters** dialog box.
- When modifying an effect such as **Pitch Shifter**, you do not want the "dry" sound, only the "wet" sound; that is, you want only the shifted pitch and not the original pitch as well. To get this effect, select the **Wet Only** checkbox on the **Edit Effect Parameters** dialog box.
- On the **Master** page, the **Original Sound** will be reset to zero. It will go back to its original value when you quit the **Edit Effect Parameters** dialog box.

Re-setting the Parameter's default value

On the **Edit Effect Parameters** dialog box, click the **Default** button.

Notes

- If you select another **Type** from the **Type** box, you will have changed the **Type** associated with the effect on the **Master** page.
- When exiting from **Sound Blaster Audigy Rx EAX Studio**, the **EAX Studio** dialog box appears. Click the **Yes** button to save any modifications made.



Using Systray Quick Access

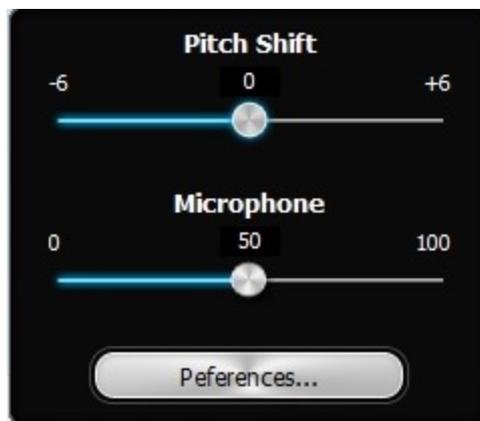
The Systray Quick Access software provides basic Pitch Shift and Mic volume control via the system tray using hotkeys. You can quickly adjust the music key to suit your vocal range and make your voice sound good on the mic at the same time change your mic's volume during karaoke singing sessions.

Systray Quick Access works in conjunction with **Sound Blaster Audigy Rx Control Panel**.

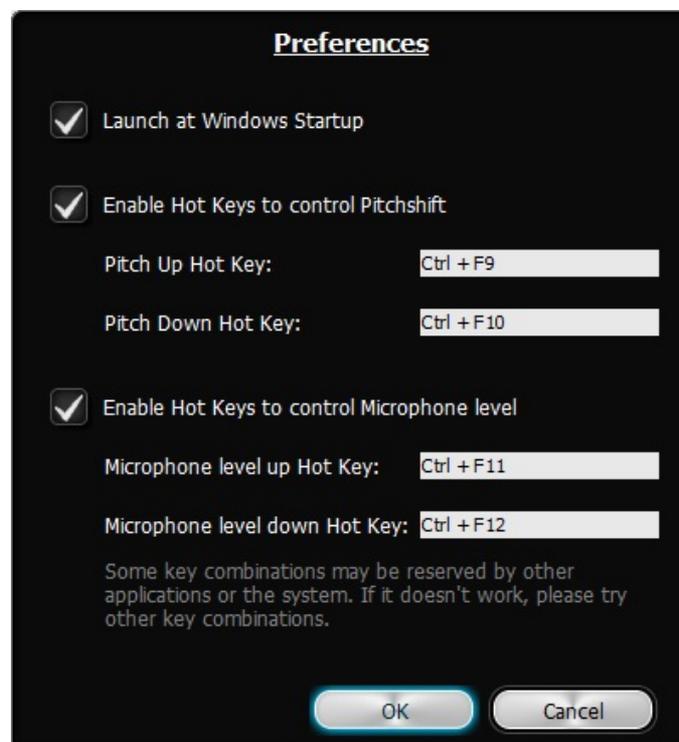
Launching Systray Quick Access



1. On the systems tray on the lower right corner of your screen, click . The Systray Quick Access dialog box opens.



2. Click the **Preferences** button and set your hotkeys for pitch and mic volume.



Note

- The **Current Active Preset** needs to contain **Pitch Shifter** effect in order for the pitch shift to work. For details, refer to **Using Your Sound Blaster Audigy Rx EAX Studio**.

Creative Diagnostics is a simple but useful program for diagnosing and fixing any problems that you may have with your audio hardware. The diagnostic tests will check that the audio hardware is detected, the audio drivers are working, and the mixer settings are correct.

A speaker test is also provided to let you test the physical connections from the audio hardware to the speakers. If the tests detect problems, *Creative Diagnostics* will provide solutions.

Use **Creative Diagnostics** for a trouble-free audio experience.

Notes

- Creative Diagnostics is supported only in Windows XP.

General Specifications

This section displays the specifications of your Sound Blaster Rx audio card.

PCI Bus Mastering

- PCI Express Base 1.0a compliant
- Bus mastering reduces latency and speeds up system performance

Sound Blaster Rx Processor

- Advanced hardware accelerated digital effects processing
- Patented 8-point interpolation that reduces distortion to inaudible levels
- 64-voice hardware wavetable synthesizer
- Professional quality digital mixing and equalization

Versatile Audio Features

- Playback of 64 audio channels, each at an arbitrary sample rate
- 32-bit mixing of all digital sources within Rx's Digital Mixer
- 24-bit Analog-to-Digital conversion of analog inputs at 96 kHz sample rate
- 24-bit Digital-to-Analog conversion of digital sources at 96 kHz to analog 7.1 speaker output
- 24-bit Digital-to-Analog conversion of stereo digital sources at 192 kHz to stereo output
- 16-bit to 24-bit recording sampling rates: 44.1, 48, 96 kHz
- ASIO2 support at 24-bit 96 kHz and 16-bit 48 kHz resolutions

Professional Digital Audio Processing

- Supports Sony / Philips Digital Interface (SPDIF) format of up to 24-bit / 96 kHz quality
- SPDIF-out at selectable sampling rate of 44.1, 48 or 96 kHz
- SPDIF-out not available during playback of protected digital audio contents authored with DRM (Digital Rights Management) technology
- Low latency multitrack recording with ASIO support

Flexible Mixer Control

- Selectable input source or mixing of various audio sources for recording
- Adjustable master volume control
- Separate bass and treble control
- Front and rear balance control
- Muting and panning control for mixer sources

EAX Advanced HD

EAX ADVANCED HD brings a new level of performance, power, and flexibility to PC audio. The all-new EAX ADVANCED HD Game Audio Library takes in-game audio and acoustic simulation to a whole new level. These innovative technologies bring tremendous realism and total audio immersion to PC gaming:

- **New Multi-Environment™ technology renders multiple environment audio effects in real time.**
- **Environment Panning™** makes it easy for gamers to track, with three-dimensional precision, the location and movement of sounds that usually represent enemies or team mates. This gives Sound Blaster Rx gamers a better advantage as they are more "attuned" to the game scenario.
- **Environment Reflections™** offers localization of early reflections and echoes.
- **Environment Filtering™** accurately simulates the propagation of sound in both open and closed environments.
- **Environment Morphing™** allows for seamless transition from one environment to the next.

EAX ADVANCED HD Music Technologies also assure sonic superiority, rich environment effects and music enhancement feature EAX ADVANCED HD audio effects.

EAX ADVANCED HD audio effects, developed especially for music listening, further enhance playback of songs. EAX ADVANCED HD offers dramatically increased 3D audio performance and functionality. Delivering superior audio fidelity and sophisticated reverb effects, this unsurpassed digital entertainment experience is available only from the Sound Blaster Audigy Rx family of products.

Troubleshooting and FAQs

This section provides solutions to problems you may encounter during installation or normal use. It has been divided into a few categories for your easy reference.

- Problems with Sound
- Problems with Sound and CD-ROMs
- Problems with Multiple Audio Cards / Devices
- Problems with Digital Audio Devices

If you have any other technical problems with this product, you can also consult our self-help tool "Knowledge Base" for online troubleshooting and solutions. You can visit either www.soundblaster.com or www.creative.com. Select your region and then select **Support**.

Problems with Sound

There is unexpected excessive environmental sound or effects when an audio file is played.

The last selected preset is an inappropriate environment for the current audio file. You have two options to switch to an appropriate environment.

To disable the effect from the last selected preset:

1. On **Sound Blaster Audigy Rx EAX Studio**, click the **Audio Effects** panel.
2. On the preset **Effects** list on the right panel, select from first column *Effects* dropdown list the **No Effects** option.

To launch a new effect:

1. On **Sound Blaster Audigy Rx EAX Studio**, click the **Audio Effects** panel.
2. Select a new effect.

You can also check the following:

3. On Windows Volume Control, the source and master volume sliders are set to mid-range (50%).
4. The correct input is selected for speaker systems with multiple inputs.

No sound coming from the headphones.

Check the following:

- The headphones are connected to the Headphones jack.
- On the Windows Volume Control, the recording source selected is **"What U Hear"**.

No sound from the speakers.

Check the following:

- You have connected your speakers to your card's output.
- You have selected the correct source on Windows Volume Control.

No audio output when playing digital files such as WAV, MIDI files or AVI clips.

Check the following:

- The speakers' volume control knob, if any, is set at mid-range. Use Windows Volume Control to adjust the volume, if necessary.
- The powered speakers or external amplifier are connected to the card's Line Out or Rear Out jack.
- There is no hardware conflict between the card and a peripheral device. See **Problems with Digital Audio Devices**.

Panning a source sometimes turns off its sound.

This occurs when the source's left-right balance in a software mixer application other than Windows Volume Control application is at the opposite end compared to the position to which you have panned the source in the Windows Volume Control.

To solve this problem:

- Open that other Windows Volume Control, and center the balances for all the audio input sources. This ensures that your analog sources will not turn silent when you pan them on Windows Volume Control.

Problems with Multiple Audio Cards / Devices

Before you install your Sound Blaster Rx, you are advised to completely uninstall and remove any existing audio devices. Operating multiple audio devices in your computer may introduce usability issues.

To solve this problem:

1. Check if you have other existing audio devices installed in your computer. The audio device may be an audio card or an onboard audio chipset.
2. If your computer has other audio cards installed, please completely uninstall and remove these audio cards from the computer. If your computer has onboard audio, disable that audio device. See your computer's motherboard documentation for details.

Problems with Digital Audio Devices

Intermittent hissing or no sound is heard from my digital speakers.

Make sure you select the sampling rate of the PCM SPDIF-out of your Digital I/O jack to match the requirements of the receiving device. You may need to select a lower digital output sampling rate. The choices available are 44.1 kHz, 48 kHz and 96 kHz.

To solve this problem:

1. Go to **Start** → **Programs** → **Creative** → **Sound Blaster Audigy Rx** → **Sound Blaster Rx Control Panel**, and click the **Speakers & SPDIF I/O** tab.
2. Select the required sampling rate from the **Digital-out Sampling Rate** list.

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