

Creative Sound Blaster Live! Platinum 5.1 Creative Audio Software

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Version 1.0

September 2000

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- Directive 89/336/EEC, 92/31/EEC (EMC)

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Introduction

Reach for the Premium Dolby Digital 5.1 Audio Entertainment Solution

Sound Blaster Live! Platinum 5.1, which consists of Sound Blaster Live! and Live! Drive IR, is the best audio solution available for your music, digital audio content creation, games, movies, CDs, MP3 songs and other Internet entertainment.

Sound Blaster Live! creates real-life, multi-dimensional sound and multi-textured acoustical environments for the most realistic 3D audio experience. Its powerful EMU10K1 audio processor delivers audio at optimum CPU performance with the highest fidelity and absolute clarity. Combine it with a four-speaker setup and you'll experience realistic 3D audio, EAX in supported games, and enjoy your movies with true surround sound.

The Live! Drive IR has a front panel, which allows you to connect commonly used audio sources to external devices easily. It conveniently allows you to plug in your microphone and headphones, and adjust the gain/volume from the front panel. Live! Drive IR also provides MIDI, as well as, digital input and output connectors for your audio recording and content authoring purposes.

Combine Sound Blaster Live! Platinum 5.1 with a rich software bundle and you get endless hours of fun. Included are exciting applications which allow you to create EAX-enhanced MP3 songs, as well as instant interactive LAVA! music videos to go along with your MP3 songs, which you can share with your friends over the Internet.

The Live!Ware upgrade program will keep your Sound Blaster Live! Platinum 5.1 up-to-date with continual upgrades supporting future technologies, functionality and features.

What is EAX™?



EAX is a collection of powerful, innovative audio technologies. Developed by Creative's world-class audio scientists and built into groundbreaking Personal Digital Entertainment (PDE) Internet solutions, EAX is changing the way audio is experienced.

EAX offers advanced, interactive audio and high-definition sound to a new generation of portable audio appliances, audio applications, and internet services. Advanced technologies for incredible, cutting edge audio are built into powerful tools. EAX-enabled products let you shape and customize your audio experience, and include advanced audio features for music composition and sound design.

EAX adds interactive, high-definition audio to your Sound Blaster Live! card. With EAX's 3D audio technology, 5.1 analog and digital sound, audio environment effects and SoundFont digital instrument libraries, you can experience premium class audio in movies, gaming, and music.

Enjoy cinematic 5.1 audio with your movies. Hear monsters creeping up behind you in your games. Record and enjoy your favorite MP3 songs in a "concert hall", "jazz club" or with other audio effects. Jam with your guitar, adding effects like overdrive and distortion to your sound ... or plug in a microphone and morph your voice into something wild! You'll be amazed at the difference EAX makes to your sound.

Live!Ware Benefits

Your Investment Is Protected as you have less of a likelihood of finding your audio card obsolete shortly after purchasing it. Through Live!Ware, new features and applications are always made available for you to experience the latest technology and to extend the life of your card.

The Value and Experience Increases Over Time as Live!Ware continues to deliver new capabilities and enhancements. Each upgrade will “rejuvenate” your audio card, allowing you to experience new functionality. It is as if your audio card is “reborn”.

Your Hardware Is Up To Date because the latest Live!Ware upgrades are only a download away. When new standards and capabilities emerge, your hardware is ready for it—just download the functions and your hardware becomes up-to-date!

System Requirements

For Creative software, your card requires at least:

- ☐ Genuine Intel® Pentium® class processor:
166 MHz for Windows 95/98 or Windows Millennium Edition,
200 MHz for Windows NT 4.0 or Windows 2000
- ☐ Intel or 100% compatible motherboard chipset
- ☐ Windows 95, 98 or Millennium Edition, Windows NT 4.0 or Windows 2000
- ☐ Playcenter 2 minimum requirements: Win 95, OSR2 or higher; Windows NT 4.0, SP6 and IE 4.0 or higher
- ☐ 16 MB RAM for Windows 95/98 or Millennium Edition (32 MB RAM recommended),
32 MB RAM for Windows NT 4.0,
64 MB RAM for Windows 2000
- ☐ 160 MB of free hard disk space
- ☐ Open half-length PCI 2.1 compliant slot
- ☐ Headphones or amplified speakers (available separately)
- ☐ CD-ROM drive required for software installation

Sound Blaster Live! gives you an estimate of the hard disk space required when you select it on the installation screen. Included applications may need higher system requirements or microphone for basic functionalities. Refer to the documentation for individual applications for details.

Getting More Information

See the online *User's Guide* for MIDI specifications and connector pin assignments, as well as instructions on using the various applications in your audio package.

Where To Go From Here ...

- ☐ For hardware and software installation instructions, refer to Chapters 1 and 2.
- ☐ To learn about the bundled applications, refer to Chapters 3, 4 and 5.

Other Recommendations

- ☐ View the Live! tour and CD contents for demonstrations, libraries and other software.
- ☐ Visit the **www.europe.creative.com** site for more information, content and Live!Ware updates.

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bold

Text that must be entered exactly as it appears.

italic

Title of a book or a placeholder, which represents the information you must provide.

UPPERCASE

Directory name, file name, or acronym.



The notepad icon indicates information that is of particular importance and should be considered before continuing.



The alarm clock designates a caution or warning that can help you avoid situations involving risk.

Installing Sound Blaster Live! Platinum 5.1

This chapter is organized as follows:

- ☐ Your Audio Card
- ☐ Your Live! Drive IR
- ☐ Installing Hardware
- ☐ Connecting Related Peripherals
- ☐ Using Your Sound Blaster Live! Platinum 5.1
- ☐ Positioning Your Speakers

Your Audio Card



A jack is a one-hole connecting interface whereas a connector consists of many pins. Some connectors here may not be available on your card. Refer to the online *User's Guide*, "Hardware Information", for details on connector pin assignments.



Line Out and Rear Out jacks can be used simultaneously to power 4.1 channel speaker systems. In addition, the Analog/Digital Out jack can be used to power the Center and Subwoofer (LFE) for 5.1 channel speaker systems.

Your audio card has these jacks and connectors which allow you to attach other devices:

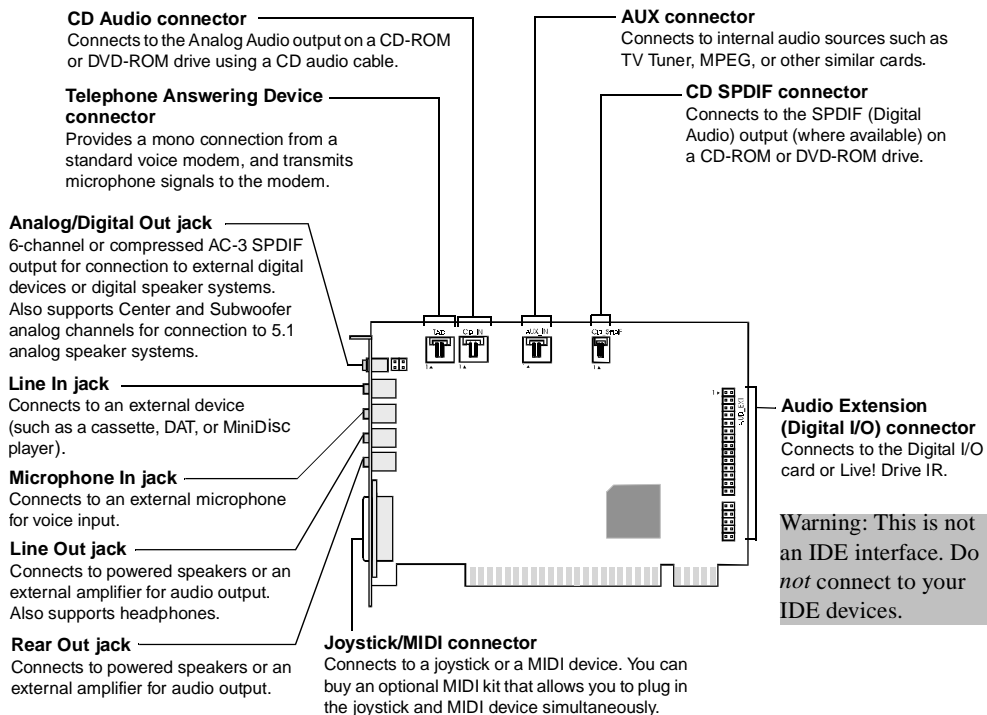


Figure 1-1: Jacks and connectors on the Sound Blaster Live! Platinum 5.1 card.

Your Live! Drive IR



If a particular INPUT source (for example, Line In 2) is supported by the Live! Drive IR as well as the Digital I/O card, only the input on the Live! Drive IR will be enabled.

However, using the microphone via the Line In 2/Mic In 2 input on the Live! Drive IR will also disable the Line In 2 input on the Digital I/O card.



To connect to your existing computer headphones and microphone to the Live! Drive IR, use the 1/4" to 3.5mm adapter provided.



It is recommended to lower the gain level of the Mic In 2 jack to the minimum before connecting a microphone.

The front panel of your Live! Drive IR has these jacks, connectors and controls:

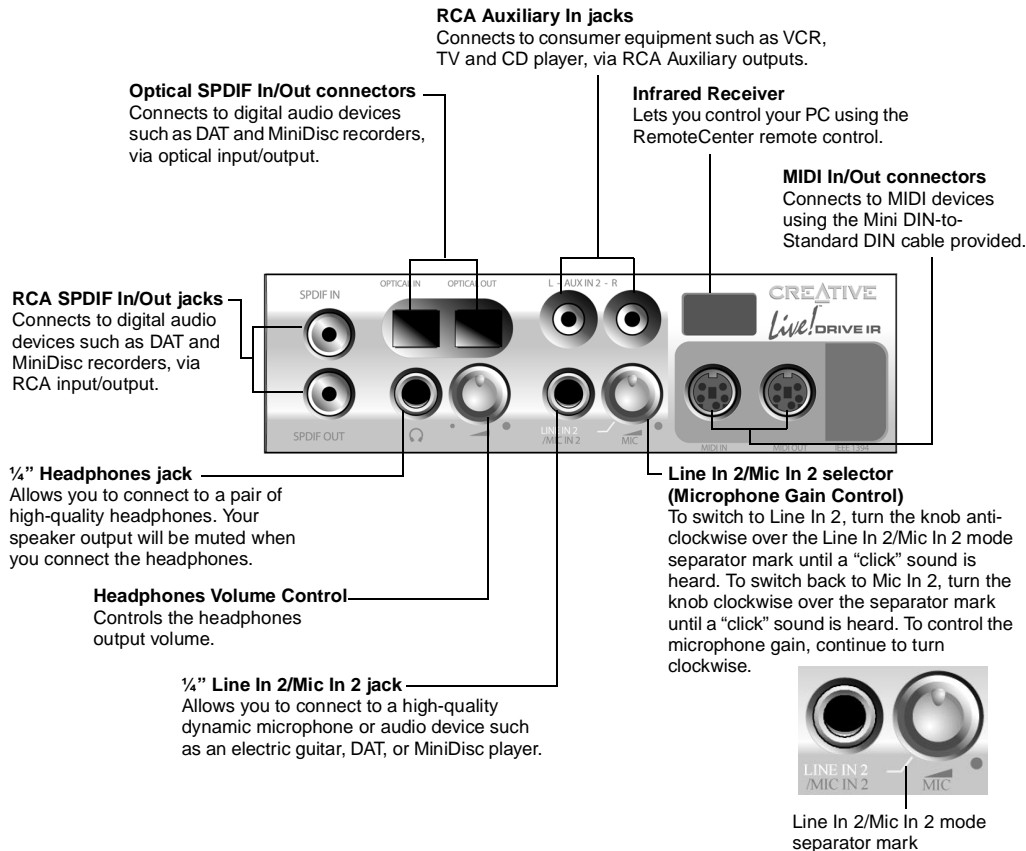


Figure 1-2: Jacks, connectors and controls on the Live! Drive IR.

Switching Audio Input Sources



You need to install the software first before you can switch audio input sources.

On your Sound Blaster Live! Platinum 5.1, two audio input sources may share a connection. In such cases, only one of the input source can be enabled and used at any one time.

If your audio card has an I²S connector, you can use only either one of the following inputs at any one time:

- ☐ I²S
- ☐ Line In 2 or Line In 2/Mic In 2

To switch the audio input source:

1. Click **Start -> Programs -> Creative -> Sound Blaster Live! Platinum 5.1-> Surround Mixer**.
2. On the Mixer deck (lower portion of Surround Mixer), click any of the audio input source icon, and then select either the **I²S In** or **Line In 2/Microphone 2** icon.
3. Click the **red plus sign** above the I²S In or Line In 2/Mic In 2 icon.
4. In the **Other Advanced Controls** dialog box, select the **Enable Line In 2/Mic In 2** check box to enable the Line In 2/Mic In 2 input source. Clear the check box to enable I²S In.



However, if the SPDIF Bypass feature and Aux In 2 are both enabled, both the SPDIF In and Aux In 2 channels will be available.
For details on the SPDIF Bypass feature, see “Digital I/O” on page 3-10.

If your Live! Drive IR has Aux In 2 connectors, you can use only either one of the following inputs at any one time:

- ☐ Aux In 2
- ☐ SPDIF In (Coaxial or Optical)

To switch the audio input source:

1. Click **Start -> Programs -> Creative -> Sound Blaster Live! Platinum 5.1-> Surround Mixer**.
2. On the Mixer deck (lower portion of Surround Mixer), click any of the audio input source icon, and then select either the **SPDIF In** or **Auxiliary 2** icon.
3. Click the **red plus sign** above the **SPDIF In or Auxiliary 2** icon.

4. In the **Other Advanced Controls** dialog box, select the **Enable Auxiliary 2** check box to enable the Auxiliary 2 input source. Clear the check box to enable SPDIF In.

Connecting Headphones



To listen to an analog source (e.g. CD Audio) using headphones, make sure that in Surround Mixer, the recording source selected is “What U Hear”. Otherwise, no sound will be heard from the headphones.

There are two types of headphones which you can connect to the Live! Drive IR:

- ☐ Home audio or professional audio headphones, which are usually fitted with a ¼" stereo plug.
- ☐ Personal stereo headphones, which are usually fitted with a 3.5mm stereo plug, such as those used for portable audio players.

Adjusting Headphones Volume and Microphone Gain

Using the Live! Drive IR Control Knobs



It is recommended that you set the headphones volume level and microphone gain level to 75% in Surround Mixer, and use the control knobs on the Live! Drive IR to make further adjustments.

If your headphones and microphone are attached to the Live! Drive IR, the headphones volume and microphone gain can be adjusted in two ways.

On the front panel of the Live! Drive IR, turn the respective control knob:

- ☐ **Anti-clockwise** to **decrease** the headphones volume or microphone gain.
- ☐ **Clockwise** to **increase** the headphones volume or microphone gain.

To adjust the headphones volume:

1. Click **Start -> Programs -> Creative -> Sound Blaster Live! Platinum 5.1-> Surround Mixer**.
2. On the Mixer deck (lower portion of Surround Mixer), if the button below the **VOL** slider is not highlighted, click it to unmute the output sound.
3. Adjust the **VOL** slider.



Even if you turn the control knob on the Live! Drive IR to the maximum, your headphones will have no sound if you set the headphones volume level to 0% or mute it in Surround Mixer. The same applies for your microphone.

To adjust the microphone gain:

1. Click **Start -> Programs -> Creative -> Sound Blaster Live! Platinum 5.1-> Surround Mixer**.
2. On the Mixer deck (lower portion of Surround Mixer), click any of the audio input source icon, and then select the **Line In 2/Microphone 2** icon.
3. If the button below the **Line In 2/Microphone 2** slider is not highlighted, click it to unmute the audio input source.
4. Adjust the slider under the **Line In 2/Microphone 2** icon.

Controlling your PC with the RemoteCenter Remote Control

The infrared receiver on the Live! Drive IR lets you control your PC and perform tasks (such as playing audio CDs and video CDs) remotely from the comfort of your sofa or bed by using the Creative RemoteCenter remote control. For details, refer to the RemoteCenter online help.

Installing Hardware

Step 1: Prepare the System for Hardware Installation



Place your CD-ROM/DVD-ROM drive above the Live! Drive IR to prevent dangling cables from the front panel blocking access to the drive tray.

Step 2: Insert the Live! Drive IR into the System

To install your Live! Drive IR, you need to perform the following:

- ☐ Step 1: Prepare the System for Hardware Installation
- ☐ Step 2: Insert the Live! Drive IR into the System
- ☐ Step 3: Install the SB Live! Platinum 5.1 Card
- ☐ Step 4: (Optional) Install the Digital DIN Metal Bracket (To connect to FPS2000 DTT2500, DTT3500 digital speakers)
- ☐ Step 5: (Optional) Install the Digital I/O Card (Only if you have one)
- ☐ Step 6: Complete the Installation

1. Switch off your system and all peripheral devices.
2. Touch a metal plate on your system to ground yourself and to discharge any static electricity, and then unplug the power cord from the wall outlet.
3. Remove the cover from your system.
4. Remove the metal plate from one unused PCI expansion slot in your system and put the screw aside, to be used later.
5. Remove the front panel cover from one unused 5¼" drive bay.

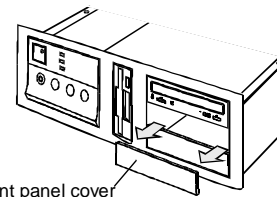


Figure 1-3: Removing front panel cover.

1. Pass the following cable ends from the inside of the casing through the vacant 5¼" drive bay, and then leave the cables dangling halfway on the outside of the casing:
 - ☐ Smaller end of the power splitter cable
 - ☐ Dark grey flat cable end with a black circle near the connector
 - ☐ (Optional) Any end of the light grey flat cable (if you want to connect to a Digital I/O card from an earlier purchase)
 - ☐ (Optional) Cable end of the Digital DIN metal bracket (if you want to connect to FPS2000, DTT2500 or DTT3500 digital speakers)

2. Connect the cables to the Live! Drive IR as shown in Figure 1-4.

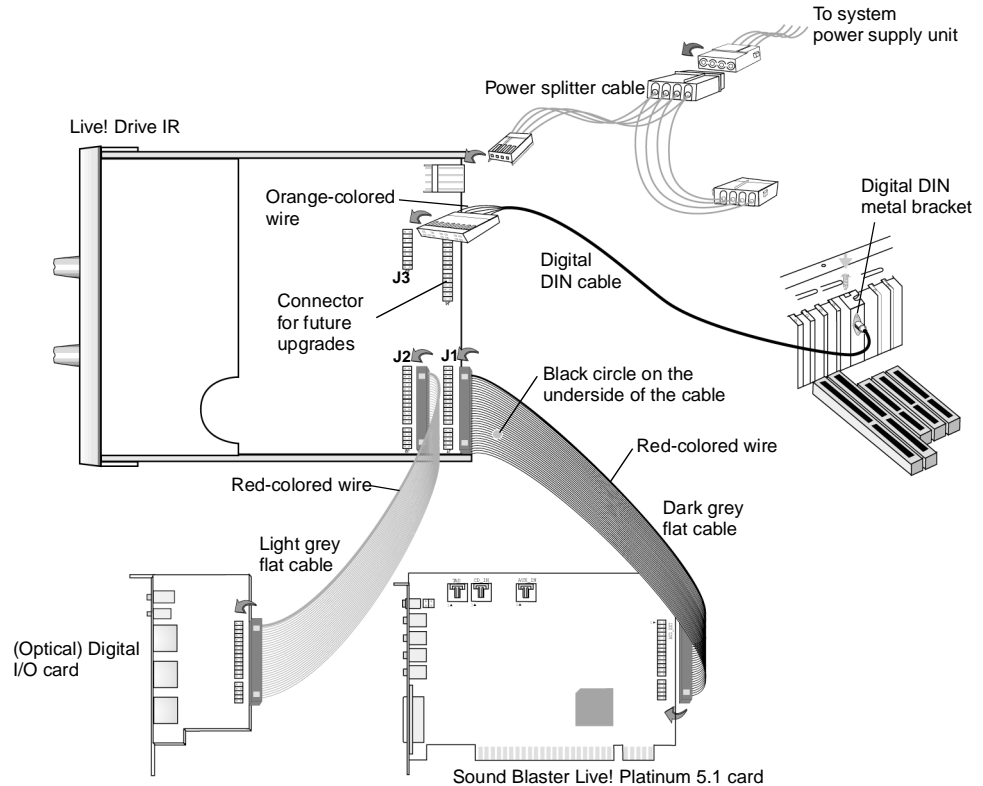


Figure 1-4: Connecting cables to the Live! Drive IR.

3. Slide the Live! Drive IR into the vacant 5¼" drive bay, and then secure its sides to the casing with the screws provided.

Step 3:

Install the SB Live! Platinum 5.1 Card



Do not force the audio card into the slot. If it does not fit properly, gently remove it and try again.

1. Connect the dark grey flat cable to Sound Blaster Live! Platinum 5.1's AUD_EXT header.
2. Align the Sound Blaster Live! Platinum 5.1 card with the vacant PCI expansion slot. Press the card gently and evenly into the slot as shown in Figure 1-5. Ensure that the card is seated firmly inside the PCI expansion slot.
3. Secure the card to the expansion slot with a screw.

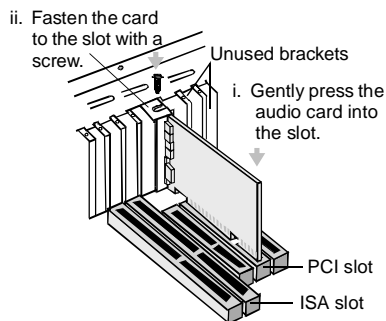


Figure 1-5: Securing the audio card to the PCI expansion slot.

Step 4: (Optional)

Install the Digital DIN Metal Bracket (To connect to FPS2000 DTT2500, DTT3500 digital speakers)

1. Remove the metal plate from a vacant ISA or PCI expansion slot.
2. Align the Digital DIN metal bracket with the vacant expansion slot opening.
3. Secure the metal bracket to the system casing with a screw.

Step 5: (Optional)
Install the
Digital I/O Card
(Only if you have one)

1. Remove the metal plate from a vacant ISA or PCI expansion slot.
2. Connect the light grey flat cable to the Digital I/O card.
3. Place the metal bracket of the Digital I/O card into the vacant bracket on the system casing.
4. Secure the card to the system casing with a screw.

Step 6:
Complete the Installation

1. Connect the power splitter cable to the system power supply unit.
2. Replace the cover onto your system.
3. Plug the power cord back into the wall outlet, and switch on the system.

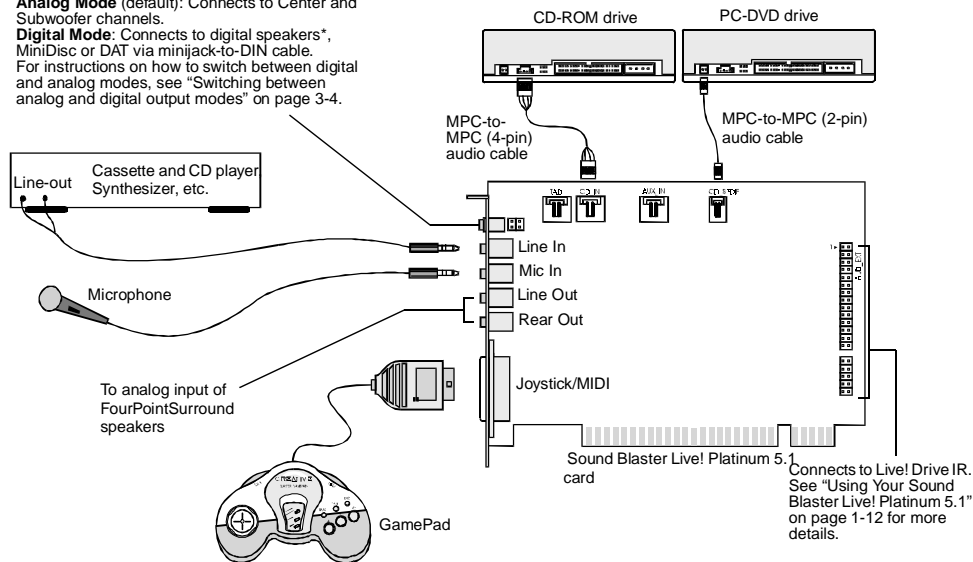
To learn how to connect to other devices, see Figure 1-6.

Connecting Related Peripherals



- ❑ If you are playing games in Windows 95/98 MS-DOS mode (pure DOS mode), you must:
 - Make sure the CD In connector and the Analog Audio connector of the CD-ROM or PC-DVD drive are connected.
 - In addition, if you get distorted audio, do not connect the CD SPDIF connector to the Digital Audio connector of the CD-ROM or PC-DVD drive.
- ❑ If you connect to the Digital Audio and Analog Audio connectors of the same CD-ROM or PC-DVD drive, do not unmute CD Audio and CD Digital at the same time in Surround Mixer.

Analog Mode (default): Connects to Center and Subwoofer channels.
Digital Mode: Connects to digital speakers*, MiniDisc or DAT via minijack-to-DIN cable.
 For instructions on how to switch between digital and analog modes, see "Switching between analog and digital output modes" on page 3-4.



* e.g., DTT3500 Digital speakers from Cambridge SoundWorks

Figure 1-6: Connecting other devices.

Using Your Sound Blaster Live! Platinum 5.1

Playing Games and Music, and Watching Movies

The Sound Blaster Live! Platinum 5.1 will most undoubtedly give you endless hours of listening pleasure. The following information and diagrams on the next few pages show how you can connect to your SB Live! Platinum 5.1 to optimize your enjoyment.

- ❑ With FourPointSurround Digital speakers from Cambridge SoundWorks, you can experience crystal clear gaming sequences or music from the Digital DIN connection. If you want an even more immersive surround experience while watching movies, get the Cambridge SoundWorks' DTT3500 5.1 Digital speakers. A minijack-to-DIN cable is bundled with the speaker set for this connection.
- ❑ Alternatively, you can also connect an analog 5.1 channel speaker system (such as the DeskTop Theater 5.1 DTT2200 speakers from Cambridge SoundWorks) or even your 6-channel home theatre speaker system. Besides the Front and Rear outputs, the SB Live! card has an Analog/Digital Out jack which allows you to connect to your Center & Subwoofer channels.
For instructions on how to switch between the analog and digital modes of the Digital/Analog jack, see "Switching between analog and digital output modes" on page 3-4.
- ❑ If you have a 5.1 channel speaker system, you can upmix your stereo sources (such as CD Audio, MP3, WMA, MIDI and Wave) to 5.1 channels by using the Creative Multi Speaker Surround (CMSS) technology. To upmix, you need to enable the CMSS feature in PlayCenter 2 (player view). See "Creative PlayCenter 2" on page 3-14.

Watching DVD Movies or Playing DVD Games

- ❑ To watch DVD movies on your PC, why not get Creative's PC-DVD kit which comes with a PC-DVD drive and Encore MPEG2 decoder card? You can connect your Encore Dxr2, Encore Dxr3 or MPEG2 decoder card to an external Dolby Digital (AC-3) decoder such as the DeskTop Theater speaker systems. In this case, disconnect the Sound Blaster Live! Platinum 5.1 card's Aux In connector from the decoder card's Audio Out connector. However, if an external Dolby Digital (AC-3) decoder speaker system is not available, this connection is necessary. See Figure 1-10.

- ❑ Even if you do not have an external Dolby Digital (AC-3) decoder, you can still enjoy Dolby Digital audio content from your DVD movies. This is because your Sound Blaster Live! Platinum 5.1 card is capable of Dolby Digital (AC-3) decoding! However, you still need to have the following:
 - A software DVD decoder/player capable of sending a compressed AC-3 SPDIF signal to your Sound Blaster Live! Platinum 5.1 audio card for decoding (such as Intervideo WinDVD 2000 or CyberLink PowerDVD 2.55)
 - A DVD-ROM drive
 - A set of speakers supporting up to 6 channels (such as the Cambridge SoundWorks DeskTop Theater 5.1 DTT2200 speaker system)

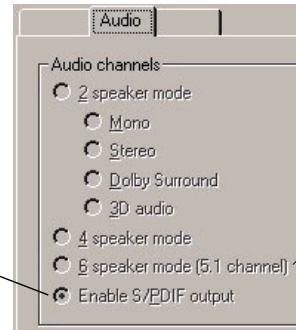
You would also need to configure the following settings in Creative Surround Mixer and in your software DVD decoder/player:

- In Surround Mixer, enable the Dolby Digital (AC-3) Decode feature. (See “Enabling Dolby Digital (AC-3) Decoding” on page 3-5)
- In your software DVD decoder/player, enable the SPDIF Output or a similar function



Some software DVD decoders/players cannot decode up to 5.1 channels, but are able to support SPDIF Output. In such cases, enable the SPDIF Output function to let Sound Blaster Live! Platinum 5.1 decode the Dolby Digital signal.

Enable SPDIF Output to send a compressed AC-3 signal to your audio card.



The 6 speaker mode may not be available for some software DVD decoders/players.

Figure 1-7: Enabling SPDIF Output in your software DVD decoder/player.

Finally, play your DVD movies and enjoy the realistic multi-channel Dolby Digital movies from your Sound Blaster Live! Platinum 5.1. You can also enjoy Dolby Digital audio only content (.AC3 files) using similar applications and settings.

Recording and Content Authoring

- ❑ The Live! Drive IR fits into the standard 5¼” drive bay of your computer and thus allows you easy access to the following connectors from its front panel:
 - MIDI input/output connectors for connection to MIDI devices;
 - A second analog Line In allows you to connect to an additional input device (e.g. a CD player) for recording. Switchable to Microphone mode for a second microphone input, with front panel volume control;
 - A Headphones jack to connect to your headphones, with front panel volume control.
 - A set of SPDIF (RCA) input/output jacks for recording to and from external digital devices such as MiniDisc or DAT recorders
 - A set of SPDIF Optical input/output jacks for recording to and from external digital devices such as MiniDisc or DAT recorders via an optical connection.
 - A set of Auxiliary input jacks for recording from consumer equipment such as television, video cassette recorder and CD players.
 - ❑ A Digital DIN connector for connection to digital speakers such as the FourPointSurround or DeskTop Theater 5.1 Digital Speaker Systems.
- The Headphones and Microphone connections utilizes ¼” jacks for high-quality connectivity.

Note: FourPointSurround and DeskTop Theater 5.1 speaker systems, Digital I/O Module and Digital I/O card and cables are available separately.

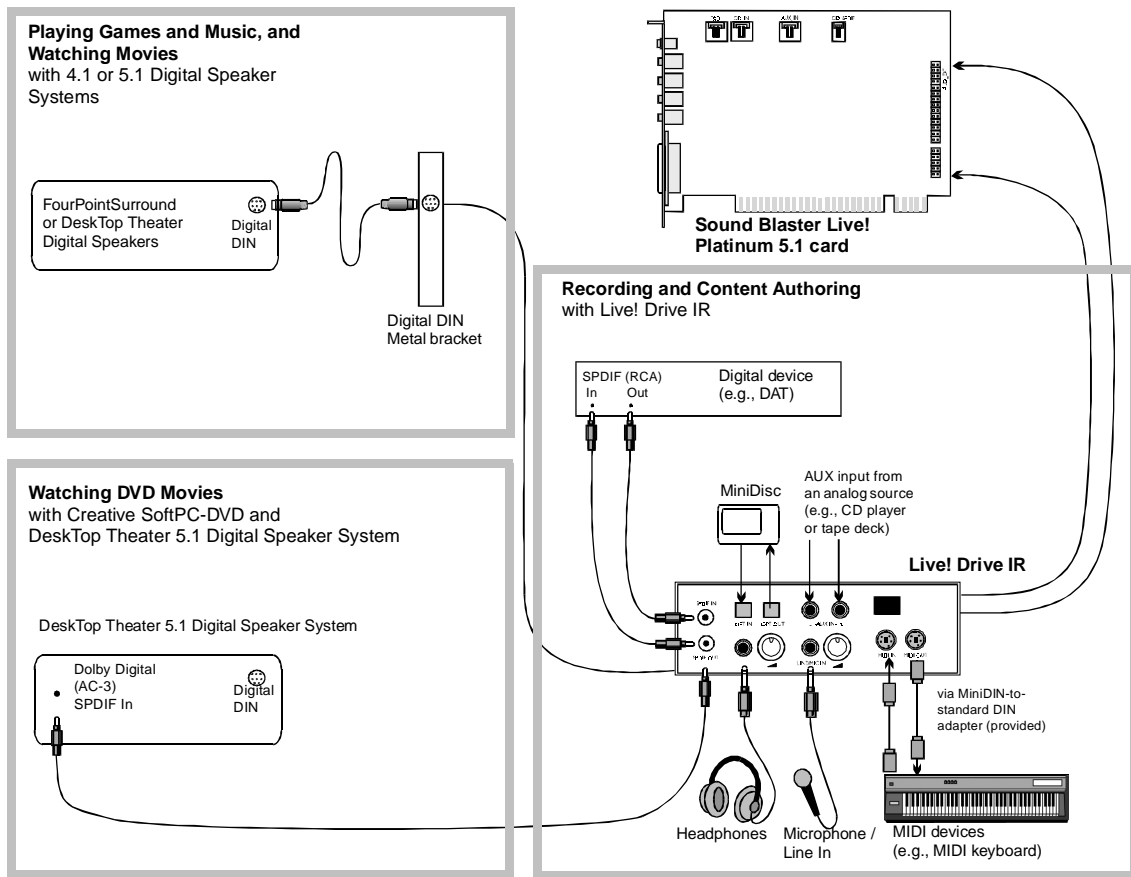


Figure 1-8: Connecting peripherals to the Sound Blaster Live! Platinum 5.1.

If you have an Optical Digital I/O card (or Digital I/O card) from an earlier purchase, you can connect it to your Live! Drive IR. The figure below shows an alternative method for audio recording and content authoring using the Optical Digital I/O card.



When you cascade your existing Digital I/O card to the Live! Drive IR, please note the following:

- On the Digital I/O card, only the SPDIF Outputs are available.
The SPDIF Inputs and 2nd Line Input are available on the Live! Drive IR. The SPDIF Outputs are also available on the Live! Drive IR.
- You can connect two MIDI devices simultaneously to the MIDI Input of the Live! Drive IR and Digital I/O card. However, at any one time, you can only use the MIDI Input on either the Live! Drive IR or the Digital I/O card. The MIDI Output is available on both the Digital I/O card and the Live! Drive IR.

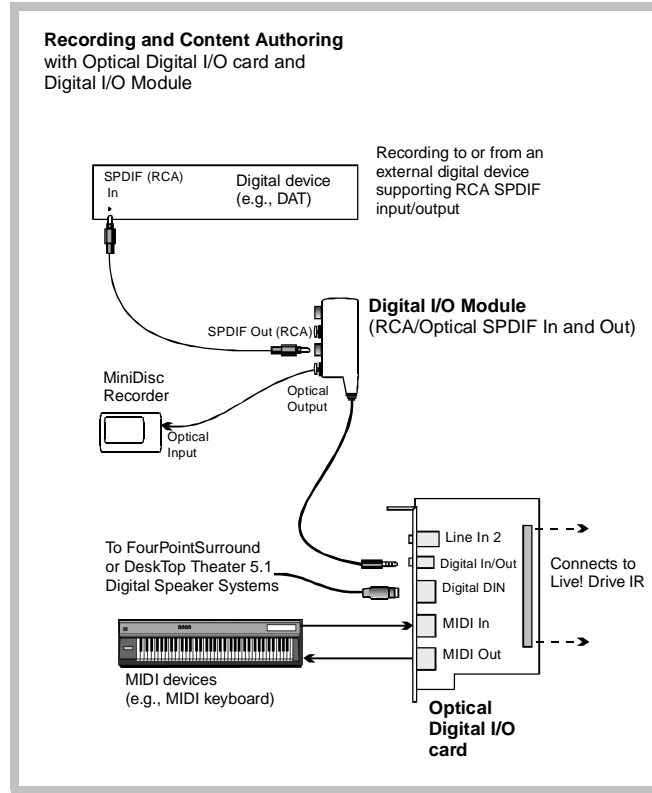


Figure 1-9: Connecting peripherals to an Optical Digital I/O card.

The figure below shows you alternative methods to connect to your Sound Blaster Live! Platinum 5.1 card.

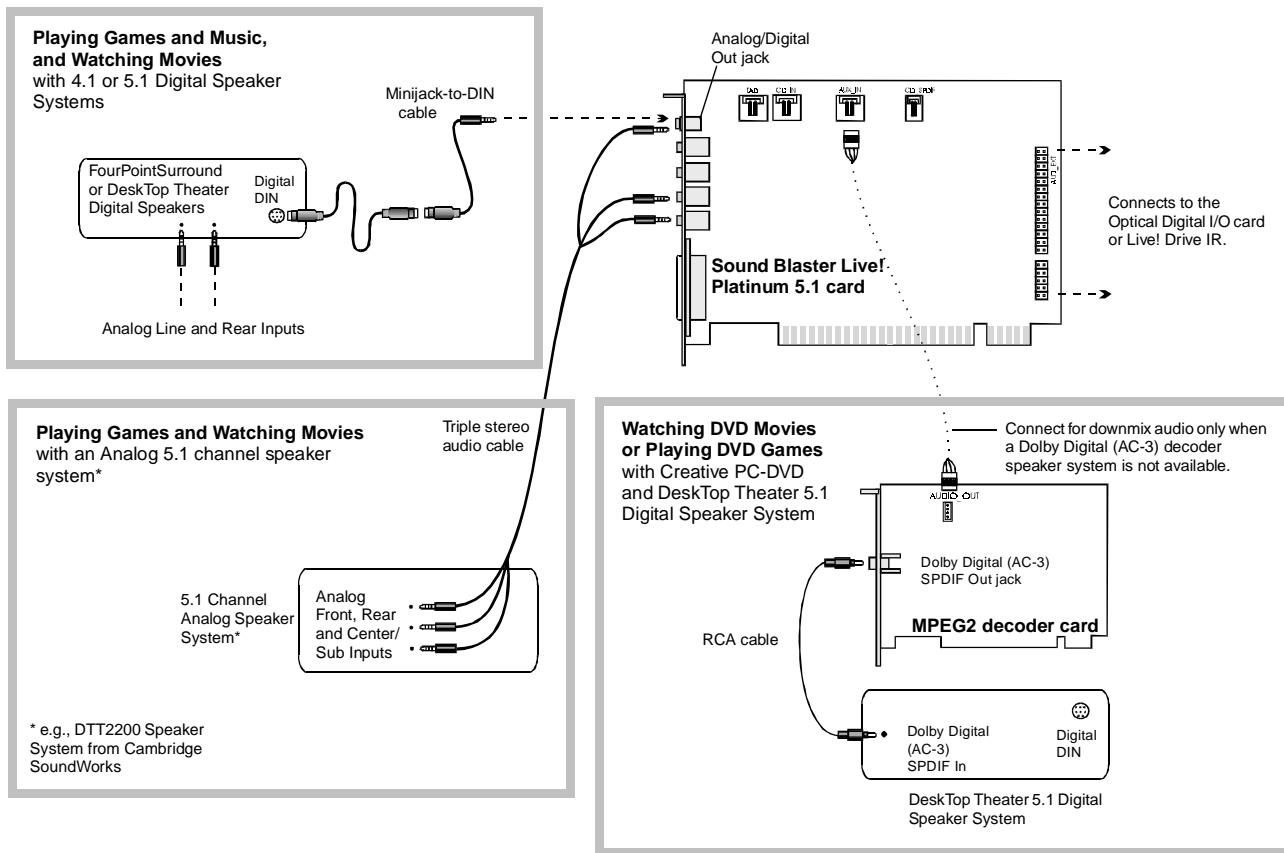


Figure 1-10: Connecting peripherals to the Sound Blaster Live! Platinum 5.1 card.

The figure below shows you alternative methods to connect external consumer electronic devices to your Sound Blaster Live! Platinum 5.1 card.

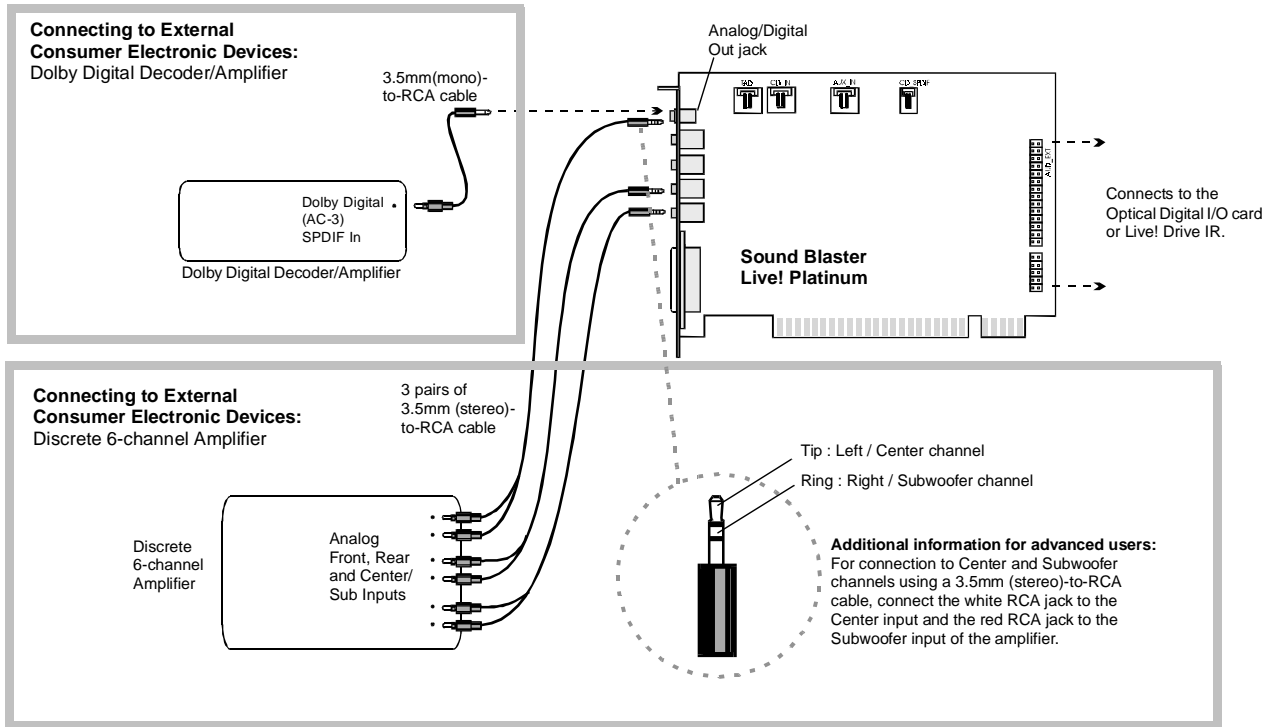


Figure 1-11: Connecting external consumer electronic devices to the Sound Blaster Live! Platinum 5.1 card.

Positioning Your Speakers

If you are using four speakers, place them so that they form the corners of a square with you exactly in the center (as in Figure 1-12) and that they are angled toward you. Make sure the computer monitor is not blocking the path of your front speakers. You may want to adjust the relative positions of the speakers until you get the audio experience you like best. If you have a subwoofer, place the unit in a corner of the room for the best bass experience.

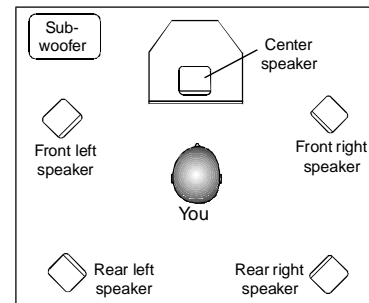


Figure 1-12: Recommended speaker positions.

Installing Software

This chapter shows you how to install the audio software in the various Windows operating systems. It consists of the following sections:

- ☐ Installing Audio Drivers and Applications
- ☐ Using Sound Blaster Live! Platinum 5.1
- ☐ Uninstalling the Applications
- ☐ Reinstalling the Audio Drivers
- ☐ Playing Legacy Games

Installing Audio Drivers and Applications

You need device drivers to control the components on your audio card. To install these drivers as well as the bundled applications, use the following instructions. The instructions are applicable to all Windows operating systems.

After you have installed the card and switched on your system, Windows automatically detects the card.

1. If you are prompted for the drivers, click the **Cancel** button. Otherwise proceed to step 2.
2. Insert the installation disc into your CD-ROM drive.
The disc supports Windows AutoPlay mode and starts running automatically. If not, see “Problems Installing Software” on page C-1.
3. Follow the instructions on the screen to complete the installation.

Setting Up Joystick Drivers in Windows NT 4.0



In Windows 2000, ME and 98SE the joystick drivers are automatically set up.

1. Log on to your computer as Administrator.
2. Click **Start -> Settings -> Control Panel**.
3. Double-click the **Multimedia** icon, click the **Devices** tab, and then click the **Add** button.
4. In the List of Drivers box of the **Add** dialog box, select **Unlisted Or Updated Driver**, and then click the **OK** button.
5. Insert the Windows NT 4.0 CD-ROM into the CD-ROM drive.
6. In the **Install Driver** dialog box, type **E:\DRVLIB\MULTIMED\JOYSTICK\X86** if E:\ is the CD-ROM drive letter, and then click the **OK** button.
7. In the **Add Unlisted Or Updated Driver** dialog box, click **Analog Joystick Driver**, and then click the **OK** button.
8. In the **Microsoft Joystick Configuration** dialog box, click the **OK** button.
9. Restart your computer when prompted.

Using Sound Blaster Live! Platinum 5.1

Congratulations! You have successfully installed Sound Blaster Live! Platinum 5.1. For more information on how you can get the most out of your audio card, refer to the other chapters in this manual.

Uninstalling the Applications

Use the following steps to cleanly remove applications before you reinstall them to correct problems, change configurations, or make version upgrades. These instructions are applicable to all Windows operating systems.

1. Close the audio card's applications if they are open. This includes Creative Launcher and the SB Live! icon on the taskbar. Applications that are still running during the uninstallation will not be removed.
2. Click **Start -> Settings -> Control Panel**.
3. Double-click the **Add/Remove Programs** icon.
4. In the **Add/Remove Programs Properties** dialog box, select **Sound Blaster Live! Platinum 5.1**, and then click the **Add/Remove** button.
5. In the **Creative Uninstaller** dialog box, select the check boxes of the items you want to delete and then click the **Next** button.
The selected applications will be uninstalled.
6. Click the **OK** button to close the **Add/Remove Programs Properties** dialog box.
7. Restart the computer if prompted.

Reinstalling the Audio Drivers

You may want to reinstall only the audio drivers if you think they have been corrupted.

1. Insert the installation disc into your CD-ROM drive.
The disc supports Windows AutoPlay mode and starts running automatically. If not, see “Problems Installing Software” on page C-1.
2. Follow the instructions on the screen until the **Setup Options** dialog box appears.
3. Click the **Drivers only** button.
4. Follow the instructions on the screen to complete the installation of the audio drivers.

Playing Legacy Games

For more information, see Appendix B, “SB Emulation in MS-DOS/ Windows 95/98/ME”.

Using Sound Blaster Live! Platinum 5.1

Sound Blaster Live! Platinum 5.1 is supported by a full range of applications to help you get the absolute most from the audio card. The software most important to the operation of your audio card is the Sound Blaster Live! Platinum 5.1 group:

- ☐ Creative Sound Blaster Live! Platinum 5.1 Tour
- ☐ Creative Diagnostics
- ☐ Creative Launcher
- ☐ Surround Mixer
- ☐ AudioHQ
- ☐ Wave Studio
- ☐ Creative PlayCenter 2
- ☐ Creative Recorder
- ☐ Creative LAVA!
- ☐ Creative MediaRing Talk
- ☐ Creative Keytar
- ☐ Creative Rhythmmania
- ☐ Vienna SoundFont Studio
- ☐ Creative MiniDisc Center
- ☐ Creative RemoteCenter

To locate and run these programs, click **Start -> Programs -> Creative -> Sound Blaster Live! Platinum 5.1** For more information and usage details for these applications, refer to their respective online help.

Creative Sound Blaster Live! Platinum 5.1 Tour

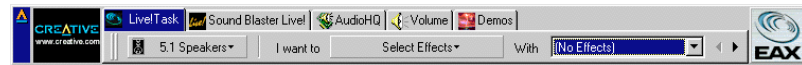
This is a good place to start to learn more about the features of Sound Blaster Live! Platinum 5.1 and to experience its awesome capabilities. The tour consists of a number of closely-related interactive and informative demos, each featuring a different aspect of Sound Blaster Live! Platinum 5.1.

Creative Diagnostics

Use Creative Diagnostics to quickly test your audio card's Wave, MIDI or CD Audio playback, recording function and speaker output.

Creative Launcher

Creative Launcher allows you to organize your desktop and open Creative applications quickly.



Creative Launcher resides at the top of your screen. The software installation creates a number of group tabs in Launcher that may contain shortcuts to Creative applications such as PlayCenter 2 and Surround Mixer. It may also contain shortcuts to other applications for your hardware settings, volume control, help files, or demonstration programs by Creative.

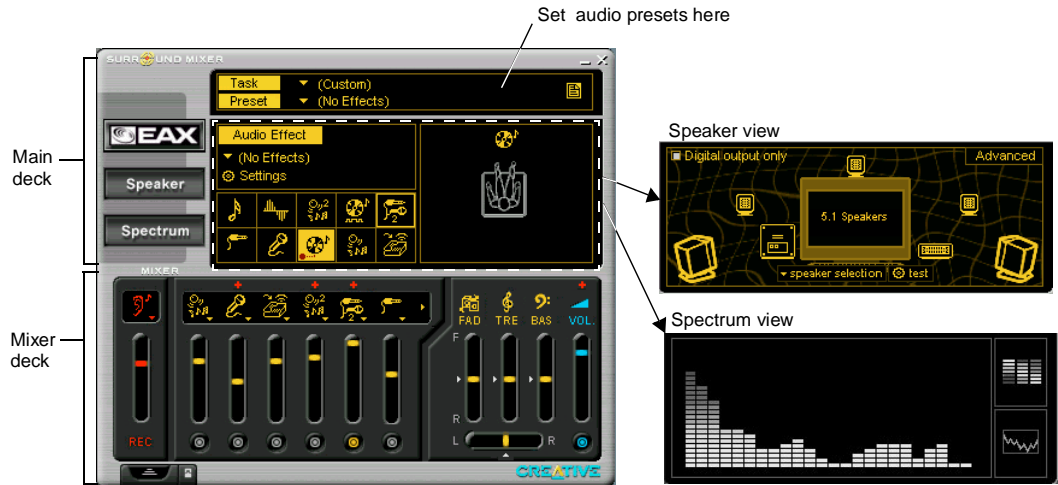
The **Live!Task** tab in the Launcher offers a "one-touch" setting which you can use to perform a task easily. An application can also be launched automatically with its associated audio preset.

Surround Mixer



To restore Surround Mixer to its original settings, click **Start -> Program-> Creative -> Sound Blaster Live! Platinum 5.1 -> Creative Restore Defaults.**

Creative Surround Mixer is the nerve center for setting and controlling the various aspects of your audio card. It consists of two "detachable" decks: the **Main deck** and the **Mixer deck**.



Main deck

The top area of the **Main deck** allows you to:

- Select tasks or save, delete, import and export **audio presets**. You can save endless combinations of these settings as audio presets for the selected speaker output. An audio preset, when selected, is your passport to a one-step automatic configuration of speakers, mixer and effects for whatever you want to do: play a particular game, record to a particular medium, record or play in a particular style—each style having its unique set of positions of audio input sources. These presets can then be configured for use in Creative Launcher's Live!Task.

The three buttons at the left side of the Main deck allows you to switch between three different views:

- In the **EAX** view, you can select and create your audio presets and position audio sources within the speaker configuration space.
- In the **Speaker** view, you can select your speaker setup and perform a speaker output test.
- In the **Spectrum** view, you can select and display the spectrum analyzer during playback or recording.

Mixer deck

The **Mixer deck** allows you to:

- Mix sounds from various audio input sources when playing or recording;
- Adjust the volume level for the audio input sources;
- Adjust the treble and bass level, front/rear or left/right balance.

Tip

- ❑ If you are not sure what the icons on the Surround Mixer represent, place the pointer over any icon or area to display the tooltip.

Switching between analog and digital output modes

By default, the Analog/Digital Out jack of the audio card outputs analog center and subwoofer channels. To allow it to give digital 6-channel or compressed AC-3 SPDIF output (digital output mode), do the following:

1. In the Main deck of the Surround Mixer, click the **Speaker** button.
2. In the Speaker view, click the **Digital Output only** check box to select it. (This is available for all speaker modes except for the Headphones mode).

Alternatively, you can do the following:

1. In the Mixer deck of Surround Mixer, click the red plus sign above the **VOL** control.
2. In the dialog box that appears, click the **Digital Output only** check box to select it. To switch back to analog output mode, clear this check box. Changes made will be reflected in the Speaker view.

Enabling Bass Redirection



Some subwoofers may not be able to reproduce excessive bass. We recommend that you set the subwoofer volume slider to a low level before you enable bass redirection. Thereafter, increase the volume level to a comfortable level.

Dolby Digital delivers five full range channels and one bass-only effects channel. However most multimedia speaker systems have satellite speakers that usually do not reproduce low frequency content. Enabling bass redirection allows low frequency source content from the front, rear and center channels to be redirected and added to the low frequency source effects (LFE) channel to produce deeper subwoofer output. This feature is useful for producing bass in games or applications that have only front and rear channel content. To enable bass redirection:

1. In the Main deck of the Surround Mixer, click the **Speaker** button.
2. In the Speaker view, click the **Speaker Selection** button to select the 5.1 speaker mode if it is not selected.
3. Click the **Advanced** button.
4. In the dialog box that appears, click the **Bass Redirection** button. When enabled, the button is orange.



Enabling Dolby Digital (AC-3) Decoding

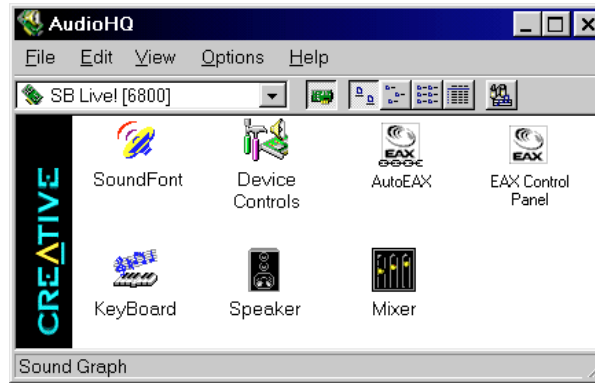
By enabling Dolby Digital decoding, the SB Live! card will decode Dolby Digital stream to six discrete analog channels. The Cambridge SoundWorks DeskTop Theater DTT2200 speaker system is an ideal match for this usage. Thus, an external Dolby Digital decoder is not required for you to enjoy multi-speaker surround sound. To enable Dolby Digital (AC-3) decoding:

1. In the Speaker view, clear the **Digital Output only** check box.
2. Follow the steps 1 to 3 described in the previous section and then click the **AC-3 Decode** button if it is not yet enabled.

However, if you wish to use an external Dolby Digital decoder, do not enable this feature. This setting will pass through compressed Dolby Digital (AC-3) PCM SPDIF output from the Analog/Digital Out jack. Remember to set the SB Live! card to the **Digital Output** mode. In addition, you will need a separate 3.5mm-to-RCA jack cable to connect to your decoder.

AudioHQ

AudioHQ contains several control utilities that allow you to view, audition, or set up the audio properties of one or more audio devices on your computer.



AudioHQ can be accessed using any of the following methods:

- Click **Start -> Programs -> Creative -> Sound Blaster Live! Platinum 5.1 -> AudioHQ**;
- Click or double-click the AudioHQ icon located at the bottom right corner of your Windows desktop.

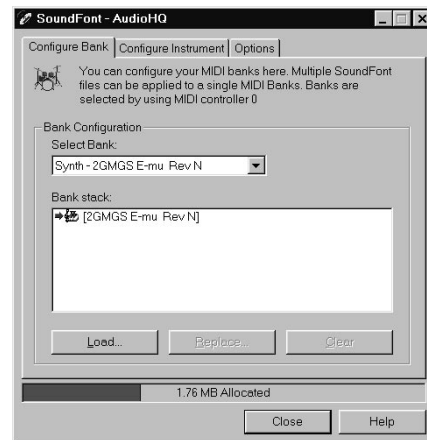
SoundFont Control

Configure a MIDI Bank

Creative SoundFont Control allows you to configure MIDI banks with SoundFont files and instruments, as well as set the caching algorithm and space.

To configure a MIDI bank:

1. In SoundFont dialog box, click the **Configure Bank** tab.
2. In the **Select Bank** list, select the MIDI bank to configure.
3. Click the **Load** button and load the SoundFont file you want to the MIDI bank.
The latest file loaded always appears at the top of the **Bank Stack** box.
The top of the stack is indicated by an arrow.
4. To replace a SoundFont file, click the file and then click the **Replace** button.
5. To clear a bank from the stack, select the bank and then click the **Clear** button.
A variation bank can only be cleared by clearing its main bank.
6. Repeat Steps 3, 4 or 5 as required.



By stacking a SoundFont file instead of replacing one with the other, you may return to the original sounds or use the new selection.

You can “spot” hide particular instruments by loading one or more SoundFont files on top of the original.

When you clear a SoundFont file, you remove the latest configuration of the main bank and any variation banks, including the latest configuration of instruments on the Configure Instrument tabbed page.

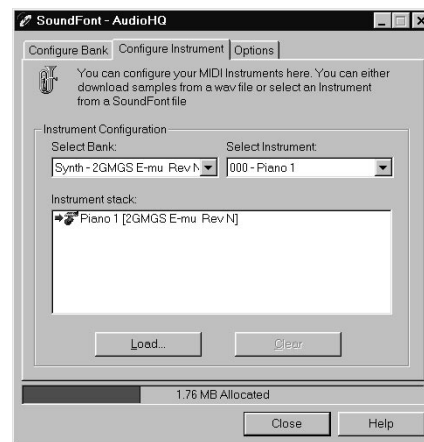
Configure an Instrument



Setting the maximum amount of cache memory for SoundFont files does not mean setting aside or reserving the space. The space can still be used by your computer or other files, if needed.

To configure an instrument:

1. In the SoundFont dialog box, click the **Configure Instrument** tab.
2. In the **Select Bank** list, select the bank whose instruments you want to configure. You can select any bank.
3. In the **Select Instrument** list, select the instrument to configure.
In the **Instrument Stack**, you may see an instrument entry although you did not load an instrument on this page. The instrument can be found in a bank loaded on the **Configure Bank** tabbed page.
4. Click the **Load** button and load a SoundFont or single-instrument (for example, .WAV) file.
The last file loaded always appears at the top of the **Instrument Stack** with an arrow pointing to it.
5. To clear an instrument from the stack, select the instrument and then click the **Clear** button.
6. For faster processing of SoundFont files, the files are loaded into memory. You need to set the maximum amount of cache memory your SoundFont files can occupy, so that your system performance does not suffer from insufficient memory. You can also set the caching algorithm for a balanced system performance.



SoundFont Options

You change the following options on the **Options** tabbed page of the SoundFont Control dialog box:

To specify the caching algorithm:

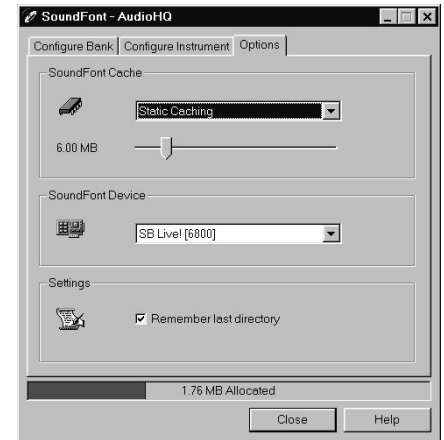
- Select an algorithm from the **SoundFont Cache** list.

To set the amount of cache for SoundFont files:

- Drag the **SoundFont Cache** slider to set the amount of cache.

To change the SoundFont device

- Select the new device from the **SoundFont Device** list.



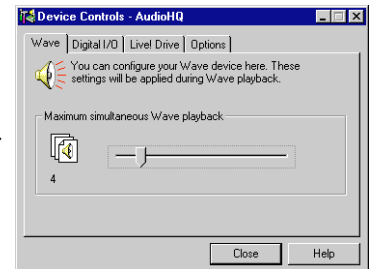
Device Controls

Device Controls allows you to configure for audio playback the audio devices that allow multiple simultaneous Wave playback sessions. For example, you can play five Wave tracks at the same time and enjoy the sounds from them all. Device Controls also allows you to enable the SPDIF Bypass feature for your digital inputs and outputs, and mute your speakers when you plug your headphones into Live! Drive.

Playback Sessions

To set maximum simultaneous Wave playback sessions:

- On the **Wave** tabbed page, drag the **Maximum Simultaneous Wave Playback** slider to the right to set a higher number of Wave playback sessions, or to the left to set a lower number of simultaneous playback sessions.



Digital I/O

To enable the SPDIF Bypass feature:

- On the **Digital I/O** tabbed page, select the **Enable** check box to place a check mark in it.

SPDIF Bypass is required if you want audio signals passing through SPDIF In to be routed directly to SPDIF Out, without passing through the processor chip.



Live! Drive

To mute the speakers when using headphones:

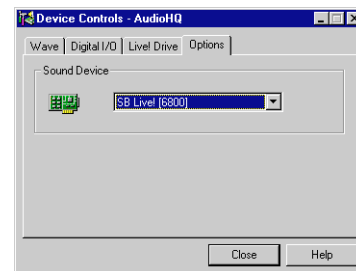
- On the **Live! Drive** tabbed page, select the **Mute speakers when using headphones** check box to place a check mark in it.



Sound Device

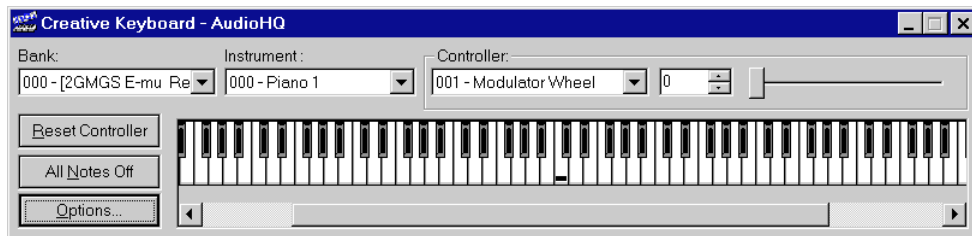
To select the sound device to configure:

- On the **Options** tabbed page, click the device you want to configure from the Sound Device list. The device is immediately selected.



Creative Keyboard

Creative Keyboard is a virtual keyboard which allows you to audition or play musical notes produced through MIDI devices. To edit the sound, use Vienna SoundFont Studio or another sound editor.

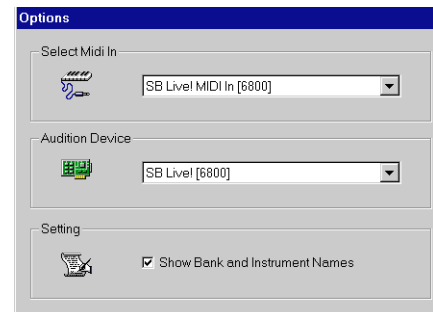


MIDI Input

To select a MIDI input device:

1. In the **Select MIDI In** box in the **Options** dialog box, click the correct MIDI port.
2. Click the OK button.

You can use external MIDI input devices to audition your MIDI banks and instruments. First, connect a MIDI input device to your audio card and then select that device in Creative Keyboard.



Test an Instrument

To test an instrument:

1. In Creative Keyboard, click the bank and the instrument you want.
2. Click the keys on the keyboard to test the sound. If you have an external MIDI input device, you will probably find it easier to use it instead.

Tips

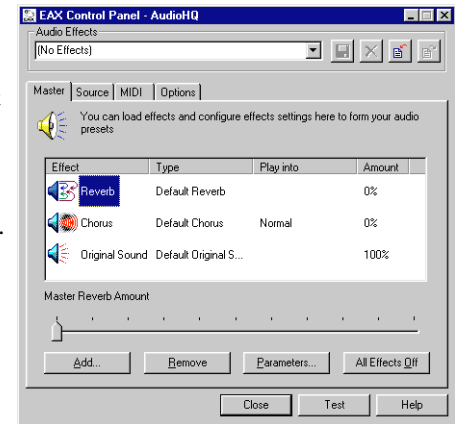
- ☐ To select multiple notes to play simultaneously, use your right mouse button to click the keys, which will be marked by black dots.
- ☐ To release the keys, right-click them one by one, *or* click the **All Notes Off** button for simultaneous release.
- ☐ To slide across the keyboard, drag the mouse.
- ☐ If the playback's sustain is too long, click the **All Notes Off** button.

EAX Control

EAX Control allows you to configure the EMU10K1 effects engine. It allows you to specify the components that make up the audio elements that in turn make up an audio effect. An audio effect is the modeling of a real-world experience. We have provided some entertainment, gaming and various audio effects to get you started with. EAX Control can also be accessed from Creative Surround Mixer.

Learn from the online help how to:

- ☐ Configure master effects
 - Add or remove effects
 - Specify the effect type
 - Specify the degree or amount of the effect
 - Edit an effect all the way down to its parameters or building blocks
- ☐ Configure source effects, that is, set the amount of the effects to apply on an audio source.
- ☐ Configure MIDI playback effects
- ☐ Export an audio effect to a file
- ☐ Import an audio effect



AutoEAX

AutoEAX allows you to specify for any audio application which audio preset to automatically associate with the currently active speaker output. For the automatic audio presets to work, AutoEAX must be active or at least minimized.

Associating an Audio Preset

For each audio application on your computer, you can specify the audio preset that will be automatically associated with it, for each speaker output configuration. For example, when playing an audio CD using Creative PlayCenter 2, you may want to associate different audio presets for the speaker outputs "Live!Surround" and "4 Speakers".

1. In the **Application** list, select the audio application with which to associate an audio preset for a particular speaker output. If the application is not in the list, click the **Browse** button to browse for and open the application.
2. In the **Speaker Output** box, click the speaker output to configure.
3. In the **Linked Audio Preset** box, click the audio preset you want to associate with this application/speaker-output combination.
This combination trio are automatically set.
4. If you want AutoEAX to monitor this application's activity, clear the **Do not monitor this application** check box. If you check it, AutoEAX will not configure the audio preset for that application even when the application is started.

For other functions, refer to its online help.

Wave Studio

Wave Studio allows you to perform the following sound editing functions easily:

- ☐ Play, edit, and record 8-bit (tape quality) and 16-bit (CD quality) Wave data. Enhance your Wave data or create unique sounds with various special effects and editing operations such as rap, reverse, echo, mute, pan, cut, copy, and paste.
- ☐ Open and edit several Wave files at the same time.
- ☐ Import and export raw (.RAW) data files.

Creative PlayCenter 2

Creative PlayCenter 2 is a revolutionary audio CD and digital audio (such as MP3 or WMA) player. Besides managing your favorite digital audio files on your computer, it is also an integrated MP3/WMA encoder for ripping audio CD tracks into compressed digital audio files. It can encode tracks at speeds of up to 9x faster than normal play speed and up to 320 kbps.

When you start PlayCenter 2, the Player view is displayed. To access more functions and settings for PlayCenter 2, switch to the Jukebox view.

Player view

Click to switch to Jukebox view



Jukebox view



If you have a 5.1 channel speaker system, you can upmix your stereo sources (such as CD Audio, MP3, WMA, MIDI and Wave) to 5.1 channels by using the Creative Multi Speaker Surround (CMSS) technology. To upmix, enable the CMSS feature in PlayCenter 2 (player view).

Creative Recorder

Recorder allows you to record sounds or music from various input sources like the microphone or Audio CD, and save them as Wave (.wav) files.



Creative LAVA!

Creative LAVA! (Live! Audio-Visual Animation) gives your music visual expression that enhances the emotional depth of your music experience.

Through LAVA!, 3D graphical objects interact with the music and intelligently dance to the sound cues from sources such as CD and MIDI.

Explore the various animation scenarios provided by LAVA! or create your own environments and scenarios for your animation.

Creative MediaRing Talk

Creative MediaRing Talk is an award-winning Internet voice communication software. It allows you to make long distance and international calls over the Internet, from your PC to another PC with Internet access and MediaRing Talk installed. It also allows you to make calls to a regular telephone if you subscribe to MediaRing's ValueFone service. All you need to do is start MediaRing Talk; dial the number; and let MediaRing Talk establish a connection for you.



Furthermore, with Sound Blaster Live!'s EAX, your voice can be modified as you take on different “personas” (for example, a male or female person, chipmunk etc.) when you talk to the other party. Disguise your voice and your friend on the other end may think he's talking to another person! To make use of these voice effects, just click the Voice Effects button (also known as the EAX button) and select the desired persona from the list.

Creative Keytar

With Creative Keytar, an easy-to-use and highly interactive edutainment software for beginners, you can turn your multimedia computer into a virtual rhythm guitar system immediately. Click a picture at the top of the screen to choose your favorite guitar. Press a function key (F1, ..., F12) to activate a chord, and you can start strumming or plucking your favorite tunes.

Just hold the chord with one hand until it is time to change the chord and use the other hand to strum or pluck the strings according to a tune's rhythmic variation. You don't need to worry about notes, all you need is a sense of rhythm and to remember your chord keys.

Creative Rhythmania

Creative Rhythmania lets you create a MIDI file, choosing from a professional set of backup rhythms and instruments.

Creative Rhythmania allows you to:

- ☐ Perform with auto-accompaniment in Rhythm mode:
 - Four-part Rhythm section
 - Preset backing styles
 - Interactive backing arrangement
 - Chord Palette system
 - SoundFont support
- ☐ Choose between two Keyboard types: PC (QWERTY) keyboard or MIDI keyboard connected to your PC.

Rhythmania is essentially a pattern-based software:

- ☐ You play a Pattern to provide auto-accompaniment for your melody playing.
- ☐ You create or modify a Pattern by building or changing it Section by Section in Rhythm mode.
- ☐ Then, you combine a Pattern and a melody to create a Sequence in Sequencer mode.

Vienna SoundFont Studio

If you are new to desktop music, Vienna SoundFont Studio is just what you need to produce your first masterpiece. This is a professional sampler that allows you to create sounds (saved as SoundFont banks), and edit them in any way you wish! If you are already familiar with Vienna SoundFont Studio, you'll be glad to know that this latest version (Version 2.3) makes creating SoundFonts easier than ever. Now, you can:

- ☐ Double-click a sample and the assigned Wave editor will automatically be started.
- ☐ Assign up to 4 MIDI controller bars to send real time controller messages to your MIDI synth.

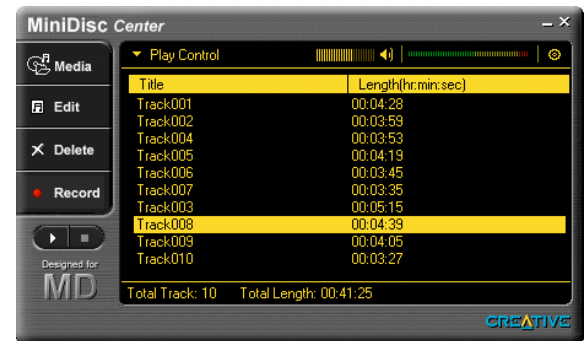
For beginners, a good place to start would be to take a microphone, plug it into your Sound Blaster Live! Platinum 5.1 card, and sample your voice. Using Vienna SoundFont Studio, you can create an instrument and place the sample to allow you to pitch-shift your voice up and down the keyboard. Next, you can try to apply articulation like Filter, or any type of effects to change your voice. Once you discover the power of SoundFont technology, you will be amazed at the sound design possibilities available.

Creative MiniDisc Center

Creative MiniDisc Center allows you to play back known audio format or compact discs for recording to digital recorders such as DAT players, especially for MiniDisc (MD) recorders.

With MiniDisc Center, you can

- ☐ create an album of your favourite songs, each of which may be in a different audio format.
- ☐ insert a preset amount of silence interval period automatically between each track.
- ☐ play back your personal album and record to your MD recorder.



Creative RemoteCenter

Creative RemoteCenter converts your PC into an entertainment system, which you can control remotely from the comfort of your bed or sofa. With the RemoteCenter remote control in your hand, you can command your PC from a distance to play audio CDs, video CDs, DVDs using the RemoteCenter Player, a simple but powerful multimedia player, which also plays most media file formats. You no longer need to be directly in front of your PC to select or change tracks because RemoteCenter comes with an On-Screen Display (OSD) system, which displays the commands or functions available, viewable from a distance of 4 meters. RemoteCenter also allows you to start and control your favorite Windows applications.

Additional Sound Blaster Live! Platinum 5.1 Applications



The applications included with Sound Blaster Live! Platinum 5.1 may be slightly different from the ones described here.

Sound Blaster Live! Platinum 5.1 can best be appreciated through some of the advanced software that makes maximum use of the audio card's features. To assist you in exploring the limitless potential of Sound Blaster Live! Platinum 5.1, Creative has included an assortment of applications and games. To learn more about these applications and games, refer to their respective online documentation.

For Audio Content Creation:

- ☐ Mixman Studio
- ☐ Steinberg's Audio Applications
- ☐ Future Beat 3D

For Digital and Internet Entertainment:

- ☐ Kool Karaoke
- ☐ PixAround PixMaker Creative Edition

For Games:

- ☐ Rage Rally
- ☐ MDK2

Mixman Studio



Mixman Studio is a powerful tool that enables you to create original, CD-quality music. At your option, you may choose tracks from a variety of musical styles—combine, layer, and perform the tracks to create music. Use Mixman Studio to control up to 16 tracks of digital audio at the same time. You can add music to multimedia presentations, video projects, websites, even make custom tapes and CDs!

Mixman Studio is designed to be easy enough to start making music immediately. To help you more easily learn Mixman Studio, a series of step-by-step tutorials is included online. Once you master the basics, challenge yourself with Mixman Studio's advanced features—unlock your creative potential!

Steinberg's Audio Applications



Cubasis VST

Cubasis VST is an application that transforms your PC into a complete recording studio for audio and MIDI recording. You can record from MIDI instruments or from any audio source such as a microphone, electric guitar and so on. It allows you to do multi-track recording and play back up to 16 audio channels and 64 MIDI tracks. After recording, you can use the simple tools to edit and mix recordings into your own compositions. You can also apply real-time audio effects to your recordings and print out professional quality scores complete with automatic layout.

WaveLab Lite

If you just want to do some fast and simple recording or editing, then WaveLab Lite is the application for you. Although simple and small, WaveLab Lite packs a punch with its features. It is capable of sample rate conversion, stereo editing through drag-and-drop operation, conversion between mono and stereo, and simple wave processing such as phase inversion, normalization and more.

ReCycle Lite

ReCycle Lite is an audio processing tool to help you get the right tempo for your drum loops and grooves. ReCycle Lite can analyze your drum loop, slice it, create the necessary audio elements and export it to another format such as SoundFont. The result is that you can rebuild the same drum loop that is independent of the tempo.

Future Beat 3D

Future Beat 3D is the first music software that allows you to create 3D audio composition and mixes. Its stylish and friendly interface with simple controls makes it easy to use, even for the average home user. Use Future Beat 3D to create music for the web, company presentations, demos and more. It is ideal for DJs, home enthusiasts and professional musicians.

Kool Karaoke



Kool Karaoke is an easy-to-use application for karaoke. After installing the application, just plug in your microphone to the computer, and you are ready to sing! It offers many popular tunes for both children and adults to sing along to.

The range of songs offered covers jazz, pop, hip-hop, rock-and roll and so on, featuring songs from many famous and popular artistes from the 70s to the 90s. There are also songs available for occasions like Christmas, birthdays, farewells and so on. Furthermore, you can go to Kool Karaoke's Web site at www.eatsleepmusic.com to update your database and download new songs.

Kool Karaoke also lets you change the tempo and the key of any song to suit your vocal range, just like a karaoke machine. It will definitely give your family and friends hours of fun and entertainment.

PixAround PixMaker Creative Edition

PixMaker CE lets you create your own 360° interactive PixAround scenes, web pages and postcards in 3 easy steps - just snap, stitch and publish! Now, you can create immersive and interactive 360° web pages easily, without the need for expensive professional equipment or additional plug-ins. You can also insert audio “hotspots” in your panoramic picture that will play audio files when clicked.

Also included with PixMaker CE is PixScreen, which lets you view PixAround scenes without the need of additional plug-ins. Navigate around a 360° PixAround scene with the help of buttons built into PixScreen’s friendly user interface, or print out your PixAround scenes in normal or panoramic view!

Rage Rally



Experience Environmental Audio as soon as you install SB Live! Platinum 5.1 by challenging yourself to a race with the amazing RageRally

MDK2



In MDK2, you have the opportunity to play three main characters - Kurt Hectic, Dr. Hawkins, and Max, the six-legged robotic dog. Each character has his or its own levels, powers and items. Kurt's specialty is stealth and sniper attacks, Dr. Hawkins can make weapons out of household items, and Max can hold four deadly weapons and smoke a cigar at the same time. These characters travel through 9 levels and encounter more than 20 different enemy Streamriders.

To Do This ... Use These Applications

Sound Blaster Live! Platinum 5.1 offers you content creation, digital and internet entertainment, multimedia playback, and gaming. The following reference tables point you to the applications that will help you achieve your goals.

Content Creation

Advanced Content Creation	Applications
Multi-track recording	Cubasis VST Sound Blaster Live! Platinum 5.1 lets you create a home music studio. It bundles software that lets you put together your own productions consisting of multiple music tracks from a MIDI Synthesizer (internal or external), your guitar or external musical instrument (Line In), a digital device (SPDIF), or a microphone.
MIDI Sequencing	Cubasis VST Create desktop music on your Sound Blaster Live!. Hook up a MIDI controller keyboard to the MIDI/Joystick port and you instantly have a high quality (up to 8 MB GM) synthesizer with this software. The bundled sequencing software lets you create your own music compositions and arrangements.

Advanced Content Creation	Applications
Notation Transcription	<p>Cubasis VST</p> <p>The bundled software offers you features that let you record your own music and transcribe it into musical notations for you. You can even print your own music score.</p>
Sampling / Sample Editor	<p>Vienna SF Studio</p> <p>Sound Blaster Live! Platinum 5.1 is an excellent sampler that allows you to record any sound effects or sample loops and then use them as a MIDI instrument - all using Vienna SF Studio. You can also edit existing musical instruments or what we call SoundFonts.</p>
Digital Hard Disk Recording	<p>Creative WaveStudio/WaveLab Lite</p> <p>With these applications, you can do digital recording and editing (16-bit, 48 kHz) on your PC with Sound Blaster Live! Platinum 5.1 by connecting any SPDIF compatible device such as a DAT deck (and selecting CD Digital in Creative Surround Mixer).</p>
Multiple Effects Processing/Creation	<p>Creative Surround Mixer/EAX Control</p> <p>Sound Blaster Live! Platinum 5.1 comes with a variety of effects that are programmable. You can literally create thousands of reverb and other special effects in the EAX Control, which can be accessed from Creative Surround Mixer.</p>
SoundFont Production & Playback	<p>Vienna SF Studio/ReCycle Lite/Cubasis VST</p> <p>With Creative's SoundFont technology, you have limitless sound creation possibilities for use with your own music. Create your own SoundFont banks in Vienna SF Studio or use ReCycle Lite to convert drum loops to Soundfont banks, and then use them in your bundled MIDI sequencer.</p>

Content Creation	Applications
Music Creation for Non Musicians	Mixman Studio Mixman Studio provides an easy means for you to create your own music, even if you are not trained in playing any instrument.
3D Music Creation	Future Beat 3D This software brings a whole new experience to music composition. Use Future Beat 3D to compose 3D music and mixes for your web pages, demos and presentations.
Sound Libraries	1,000 SF Instruments bundled Sound Blaster Live! Platinum 5.1 bundles many SoundFont banks which contain instruments you can use. These can be found on one of the installation CDs. Use Vienna SF Studio to organize the instruments into your own customized banks.
Voice Processing/Effects	Creative Surround Mixer/EAX Control If you are thinking of singing vocals on your Sound Blaster Live!, you would probably want to enhance your voice, or even add special effects. You can do this with the EAX Control, which can be accessed from Creative Surround Mixer.

Content Creation	Applications
Record audio/effects	Creative Recorder Creative Recorder provides an easy means to record any audio source without worrying about your mixer settings. You can also record audio along with audio effects.

Multimedia Playback

Multimedia Playback	Applications
DVD Movies	To play back DVD movies on your Sound Blaster Live!, you must first have a DVD-compatible drive. Next, you must have a DVD solution (available from Creative). For the full DVD experience, you may want to purchase Cambridge SoundWorks' DeskTop Theater 5.1 or a Dolby Digital (AC-3) decoder.
MP3/WMA	Creative PlayCenter 2 supports/plays MP3 and WMA files.
Wave/CD Audio	Use Creative PlayCenter 2 to play back files in both Wave and CD Audio formats. WAV is the format for digital audio files on the Windows operating platform. CD Audio is played back from an audio compact disc on your CD-ROM drive.
MIDI	MIDI (*.MID) is a music format used by musicians that is played back from the internal synthesizer on the Sound Blaster Live! Platinum 5.1 card. Use Creative PlayCenter 2 to play back MIDI files or use the MIDI sequencer bundled with your card. To achieve the best quality, load the 8MB GM bank in the SoundFont applet found in the AudioHQ group.

Multimedia Playback	Applications
SoundFont MIDI	Many musicians have created music files that use exotic or non-regular instrument (non General MIDI compliant). These instruments are stored in SoundFont banks. Such MIDI files can be played back from Creative PlayCenter 2. The bundled CD contains many examples of MIDI demos that use high quality SoundFont banks.
Dolby Digital (AC-3) audio	Sound Blaster Live! Platinum 5.1 offers Dolby Digital (AC-3) decoding so there's no need for an external Dolby Digital decoder. Just configure your speaker setup to 5.1 Speakers in Surround Mixer.

Digital Entertainment

Digital Entertainment	Applications
Watch Surround Movies	If you want to enjoy high quality movie entertainment, ensure you have good speakers. If you have 4 or 5 speakers connected to your Sound Blaster Live! Platinum 5.1 card, configure your respective speaker setup in Surround Mixer. For DVD movies, it is recommended that you purchase Creative PC-DVD Encore's solution as well as the Cambridge SoundWorks' DeskTop Theater 5.1.
Play Customized Albums	You can compile your own albums containing your favorite music using the bundled Creative PlayCenter 2; whether they are in CD Audio, WAV or MIDI format.

Digital Entertainment	Applications
Play Guitar	Sound Blaster Live! Platinum 5.1 lets you play the guitar on your PC. With Creative Keytar, you can literally transform your computer keyboard into a guitar. And strum, using your mouse!
Play Keyboard Music with Auto-Accompaniment/One-Man Band	You need not invest in a musical keyboard to be a one-man-band. Creative Rhythmania lets you play music on your computer keyboard.
Sing Karaoke	Kool Karaoke™ lets you sing Karaoke on your PC! Connect a microphone to your card and have fun. Additional songs can be downloaded from the Web.

Internet Entertainment

Internet Entertainment	Applications
Experience Music with Visual Animation	With LAVA!, your MP3 songs can now be associated and distributed over the Internet with a customized “music video” (called MV3) containing high quality 3D animation that gives dynamic visual expression to your songs. Watch the animation dance to the beat of your music! To enjoy the LAVA! experience, you will also need any 3D accelerated graphics card.
Encode CD Songs to MP3 / Download and Play MP3 Songs	With PlayCenter 2, you can encode and record all your favorite CD songs into your PC hard drive, creating a database for playing customized song lists. You can also add songs to your database by downloading them from various sites in the Internet.

Internet Entertainment	Applications
Play MP3 Songs with EAX	Use Creative PlayCenter 2 to create your own MP3 renditions with multi-dimensional and multi-textured realism by adding environments such as concert hall or bathroom! You can share these enhanced MP3 songs even with someone who does not own an SB Live! card.
Chat over the Internet using another Voice	Take on another personality or life-form while talking over the Internet! You can do this with Creative MediaRing Talk and its Voice Personas feature, which uses Sound Blaster Live!'s EAX to modify your voice in real-time as you chat.
Create 360° Interactive PixAround Web Pages with Audio Hotspots	Use PixMaker to create immersive and interactive 360° web pages or postcards easily. You can even add audio hotspots in your panoramic pictures that will play audio files when clicked.

Gaming Reference

Games	Applications
EAX Support	Enjoy the many EAX titles by top game developers that immerse you in realistic environments. Go to www.europe.creative.com for a full list of compatible titles.
DirectSound3D Support	DirectSound3D (DS3D) games are supported on your Sound Blaster Live! Platinum 5.1 card. You can hear sounds positioned in 3D space that enhance your game experience.

Games	Applications
A3D 1.0 Support	Your card translates A3D calls into DirectSound3D, meaning that you can enjoy A3D games.
Sound Blaster Compatibility	Your card provides you with exceptional Sound Blaster compatibility so that you can continue to play the thousands of popular DOS games already in the market.
Audio Presets For Legacy/ Existing Games	You can still enjoy audio effects even if your game does not have EAX support. Your card bundles over 50 presets for use with existing games. These can be accessed from Creative Launcher. You can also associate effects individually with your favorite games. Launch the AutoEAX applet.
Customized environments for non-3D audio games	You can create customized environments for your non-EAX games using the EAX Control panel, which can be accessed from Creative Surround Mixer.

General Specifications

This section lists the specifications of your card and Live! Drive IR.

Features

PCI Bus Mastering

- ☐ PCI Specification Version 2.1 compliant
- ☐ Bus mastering reduces latency and speeds up system performance

EMU10K1

- ☐ Advanced hardware accelerated digital effects processing
- ☐ 32-bit digital processing while maintaining a 192 dB dynamic range
- ☐ Patented 8-point interpolation that achieves the highest quality of audio reproduction
- ☐ 64-voice hardware wavetable synthesizer
- ☐ Professional-quality digital mixing and equalization
- ☐ Up to 32 MB of sound RAM mapped to host memory

Stereo Digitized Voice Channel

- ☐ True 16-bit Full Duplex operation
- ☐ 16-bit and 8-bit digitizing in stereo and mono modes
- ☐ Playback of 64 audio channels, each at an arbitrary sample rate
- ☐ ADC recording sampling rates: 8, 11.025, 16, 22.05, 24, 32, 44.1 and 48 kHz
- ☐ Dithering for 8-bit and 16-bit recording

AC '97 Codec Mixer	<ul style="list-style-type: none"> <input type="checkbox"/> Mixes EMU10K1 audio sources and analog sources such as CD Audio, Line In, Microphone, Auxiliary and TAD <input type="checkbox"/> Selectable input source or mixing of various audio sources for recording <input type="checkbox"/> 16-bit Analog-to-Digital conversion of analog inputs at 48 kHz sample rate
Volume Control	<ul style="list-style-type: none"> <input type="checkbox"/> Software record and playback control of Master, Digitized Voice, and inputs from MIDI device, CD Audio, Line, Microphone, Auxiliary, TAD, SPDIF, Wave/DirectSound device, CD Digital (CD SPDIF), Line 2 (shared with Microphone 2 and I²S), and Auxiliary 2 (shared with SPDIF) <input type="checkbox"/> Separate bass and treble control <input type="checkbox"/> Front and Rear Balance control <input type="checkbox"/> Muting and balance control for individual playback sources
Dolby Digital (AC-3) Decoding	<ul style="list-style-type: none"> <input type="checkbox"/> Decodes Dolby Digital (AC-3) to 5.1 channels or pass-through compressed Dolby Digital (AC-3) PCM SPDIF stream to external decoder <input type="checkbox"/> Bass Redirection: Enhances bass output to subwoofer for small satellite speaker systems
Creative Multi Speaker Surround™ (CMSS™)	<ul style="list-style-type: none"> <input type="checkbox"/> Multi-speaker technology <input type="checkbox"/> Professional-quality panning and mixing algorithm <input type="checkbox"/> Upmixes mono or stereo sources to 5.1 channels

Connectivity

Sound Blaster Live! Platinum 5.1 card

Audio Inputs

- ❑ One line-level analog Line input via stereo jack on rear bracket
- ❑ One mono Microphone analog input via stereo jack on rear bracket
- ❑ CD_IN line-level analog input via 4-pin Molex connector on card
- ❑ AUX_IN line-level analog input via 4-pin Molex connector on card
- ❑ TAD line-level analog input via 4-pin Molex connector on card
- ❑ CD_SPDIF digital input via 2-pin Molex connector on card, accepting sampling rates of 32, 44.1 and 48 kHz

Audio Outputs

- ❑ ANALOG/DIGITAL OUT via 4-pole 3.5mm minijack on rear bracket
 - ANALOG OUT: Center and Subwoofer channels
 - DIGITAL OUT: Front, Rear, Center and Subwoofer SPDIF digital outputs
- ❑ Three line-level analog outputs via stereo jacks on rear bracket, Line-Outs 1, 2 and 3
- ❑ Stereo headphone (32-ohm load) support on Front Line-Out

Interfaces

- ❑ D-Sub MIDI interface for connection to external MIDI devices. Doubles as Joystick port
- ❑ AUD_EXT 2x20 pin header for connection to Live! Drive IR

Live! Drive IR

Audio Inputs and Outputs On Front Panel

- ❑ Two RCA jacks for coaxial SPDIF input and output
- ❑ One Headphone output with auto detection via 1/4" stereo jack with volume control
- ❑ One shared line-level analog Line/Microphone input via 1/4" stereo jack. Shared input selectable via switch with gain control

- ❑ Two mini DIN female connectors for MIDI input and output
- ❑ Two RCA jacks for left and right channel stereo Auxiliary inputs (shared with SPDIF input)
- ❑ Two optical connectors for Optical SPDIF input and output

Interfaces

- ❑ Digital DIN pin header (J3) for rear metal bracket Digital DIN
- ❑ Power input connector to system power supply unit
- ❑ One AUD_EXT (SB LIVE! PLATINUM 5.1 CARD) 2x20 pin header (J1) for connection to SB Live! pALTIUNM 5.1 card
- ❑ One DIGITAL I/O CARD 2x20 pin header (J2) for connection to Digital I/O card
- ❑ One Infrared receiver for receiving infrared signals from remote control

SB Emulation in MS-DOS/ Windows 95/98/ME

Background

Legacy games in the market have been designed for only MS-DOS. SB Live! Platinum 5.1 supports MS-DOS games. There are two ways to play MS-DOS games:

☐ **From the MS-DOS box in Windows 95/98/ME (recommended)**

To open the box:

- Click **Start** -> **Programs** -> **MS-DOS Prompt**.

☐ **In the Windows 95/98 MS-DOS mode**

There may be times when you do not want to or cannot run a game from the MS-DOS box. The game may be incompatible with Windows 95/98, or there are insufficient system resources to play the game with Windows 95/98 loaded. In such cases, use the MS-DOS mode, in which only the real-mode portions of Windows 95/98 are loaded.

To restart the system in MS-DOS mode when you are already in Windows 95/98:

1. Click **Start** -> **Shut Down**.
2. Click the **Restart the computer in MS-DOS mode** option button, and then click the **OK** button.

To start the system in MS-DOS mode at system startup:

1. At startup as Windows 95/98 is loading, hold the F8 key.
2. At the startup menu, choose the Command Prompt Only option, and then press <Enter>.

Understanding the Installation Program

The AUTOEXEC.BAT File Settings

The installation program modifies your AUTOEXEC.BAT and CONFIG.SYS files.

The installation program adds the following statements to the AUTOEXEC.BAT file:

```
SET CTSYN=C:\WINDOWS  
SET BLASTER=A220 I5 D1 H5 P330 T6  
C:\PROGRA~1\CREATIVE\SBLIVE\DOSDRV\SBEINIT.COM
```

The first two statements set up the environment variables for your audio card. For an explanation of the variables, see “Environment Variables” on page B-5.

The third statement runs SBEINIT.COM which is the SB Live! Platinum 5.1 MS-DOS driver. It is required for the SB Live! Platinum 5.1 card to function properly under MS-DOS mode.

SBEINIT.COM requires the HIMEM.SYS and EMM386.EXE files to be loaded. If needed, the installation program adds the necessary HIMEM.SYS and EMM386.EXE lines to your CONFIG.SYS file, creating the file if it is not present.

On the rare occasion a program does not work with expanded memory, simply add the NOEMS parameter to your memory manager. For example:

```
DEVICE=C:\WINDOWS\EMM386.EXE NOEMS
```

You may load this driver into high memory in the AUTOEXEC.BAT file, even though the default is not. For example:

```
LOADHIGH=C:\PROGRA~1\CREATIVE\SBLIVE\DOSDRV\SBEINIT.COM
```

Do not remove the memory manager altogether. Do not attempt to load SBEINIT.COM into high memory when using the NOEMS option if SBEINIT.COM fails to run SBELOAD.EXE or SBECFG.EXE. In the rare case that an MS-DOS game will not work with a memory manager, you will not be able to use the SB Live! card with the game.

The CONFIG.SYS File Settings

System Resource Settings



In the following tables, the preferred values are in bold.

Input/Output (I/O) Addresses

The installation program adds the following statements to the CONFIG.SYS file:

```
DEVICE=C:\WINDOWS\HIMEM.SYS
DEVICE=C:\WINDOWS\EMM386.EXE
```

This section explains the following software SB emulation resources—not hardware resources—of your card:

- ☐ Input/Output (I/O) Addresses
- ☐ Interrupt Request (IRQ) Line
- ☐ Direct Memory Access (DMA) Channel

If your card encounters a conflict with a peripheral device, you may need to change its resource settings. For details, see “Resolving I/O Conflicts” on page C-7.

When any resource setting is changed, make sure that the environment variables (see “Environment Variables” on page B-5) reflect the changes as well. You can view your system environment by typing **SET** at the DOS prompt.

I/O addresses are communication areas used by your computer’s central processor to distinguish between various peripheral devices connected to your system when sending or receiving data.

Table B-1: Possible default input/output (I/O) addresses.

Device	Default I/O Address Range
SB interface	220H to 22FH 240H to 24FH 260H to 26FH 280H to 28FH
MPU-401 UART MIDI interface	300H to 301H 310H to 311H 320H to 321H 330H to 331H

Table B-1: Possible default input/output (I/O) addresses.

Device	Default I/O Address Range
Stereo music synthesizer	388H to 38BH

Interrupt Request (IRQ) Line

An IRQ line is a signal line that a device uses to notify your computer's central processor that it wants to send or receive data for processing.

Table B-2: Possible default interrupt request (IRQ) line assignment.

Device	Default IRQ Line
SB interface	5, 7, 9, 10

Direct Memory Access (DMA) Channel

A DMA channel is a data channel that a device uses to transfer data directly to and from the system memory.

Table B-3: Possible default direct memory access (DMA) channel assignment.

Usage	Default DMA Channel
First DMA channel	0, 1, 3
Second DMA channel	5, 6, 7

Environment Variables

Environment variables are used to pass hardware configuration information to the software in your system. For MS-DOS, your audio card includes the following:

- ☐ CTSYN Environment Variable
- ☐ BLASTER Environment Variable

CTSYN Environment Variable

The CTSYN environment variable points to the location of the CTSYN.INI file, which usually resides in the Windows directory. The syntax for this variable is as follows:

```
CTSYN=path
```

where path is the location of the CTSYN.INI file.

BLASTER Environment Variable

The BLASTER environment variable specifies the base I/O address, IRQ line, and DMA channels of the SB interface. Its syntax is:

```
BLASTER=A220 I5 D1 H5 P330 T6
```

The parameters in the command line are as follows.

This

Parameter	Specifies
------------------	------------------

Axxx	SB interface's base I/O address.
Ix	IRQ line used by the audio interface.
Dx	First DMA channel used by the audio interface.
Hx	Second DMA channel used by the audio interface.
Pxxx	MPU-401 UART interface's base I/O address.
Tx	Card type. x must be 6.

Determining Resources



The MS-DOS driver SBEINIT.COM must be running for SBECFG.EXE to work properly.

To find the current SB Live! SB16 Emulation resources in Windows 95/98:

1. Click **Start** -> **Settings** -> **Control Panel**.
2. In the **Control Panel** window, double-click the **System** icon.
3. In the **System Properties** dialog box, click the **Device Manager** tab.
4. Double-click **Creative Miscellaneous Devices**, and then double-click **Creative SB Live! SB16 Emulation**.
5. Click the **Resources** tab.

You can use the information in the resource list to help you configure MS-DOS games for use with the SB Live! Platinum 5.1 card.

The resource list may show three entries of “Input/Output Range” and two entries of “Direct Memory Access”. They correspond to the sequence of entries in Table B-1 and Table B-3. If the number of entries do not match, a good estimate of the identity of the device is its I/O address or DMA channel.

To find the current SB Live! SB16 Emulation resources in MS-DOS mode:

1. Switch to your SB Live! Platinum 5.1 DOS driver directory, that is:
C:\PROGRA~1\CREATIVE\SBLIVE\DOSDRV
2. Type **SBECFG** and then press <Enter>.

Some older games may have difficulty detecting the SB Live! Platinum 5.1 card at certain resource settings. Typically, these games expect the card to be at a fixed set of resources and would fail to load if those resources are not detected. If you have older MS-DOS games that do not work properly, try changing the SB Live! SB16 Emulation configuration. Use the following as a guide:

Problem: Sound Blaster emulation is not recognized.

Solution: Try switching the SB Emulation IRQ between 5 and 7, use DMA channel 1, use SB interface port 220.

Problem: The MPU-401 emulation is not recognized.

Solution: Try using Port address 330.

Selecting the Best Audio Options in a Game

Most MS-DOS–based games that provide sound have some procedure for audio setup. These procedures generally allow you to choose from a list of popular audio cards or audio devices.

Games may present audio options differently. Some may present a single choice that corresponds to a particular audio device; for example, Sound Blaster 16, Roland Sound Canvas, etc. Others provide an option for music and digital audio separately; for example, General MIDI music with Sound Blaster digital audio. In such a case, there are often two separate menus to configure.

Some games allow you to set the MIDI port address and IRQ for music and sound. Make sure that these settings correspond to the values displayed by SBECFG.EXE or the Resources tabbed page of the Creative SB Live! SB16 Emulation Properties dialog box.

There are games that offer MPU-401/Roland (General MIDI or MT-32/LAPC-1) as an option. Often these games allow you to set the MIDI port address. Make sure that they match the MIDI address in the Resources list on Resources tabbed page of the Creative SB Live! SB16 Emulation Properties dialog box. The same values can be found under “MPU-401 (General MIDI, Roland MT-32/LAPC-1) Emulation”, displayed by SBECFG.EXE in MS-DOS mode. Remember to enable the MT-32 MIDI patch with the SBEMIXER program if you select Roland MT-32 or LAPC-1 for music.

Music Options

Most MS-DOS games offer a menu choice for sound when they start up. If you have a choice between General MIDI and MT-32, always choose General MIDI, since it will provide you with the best sound quality. If you need to use MT-32, you must first switch from the General MIDI instrument set (the default) to the MT-32 instrument set using SBEMIXER. Be sure to switch back to the General MIDI set when you are finished using the MT-32 instrument set.

Digital Audio Options

SB Live! supports Sound Blaster, Sound Blaster Pro, Sound Blaster 16, and Adlib digital audio emulation. If an application provides all these as options, specify the choices in this order:

1. Sound Blaster 16
2. Sound Blaster Pro
3. Sound Blaster
4. Adlib

MS-DOS Mode Utilities

SBECFG.EXE

The SB Live! card includes a few MS-DOS utilities. These utilities require the SB Live! DOS driver SBEINIT.COM to be loaded.

Use the SBECFG.EXE utility to obtain the hardware settings and the status of the SB Live! card. Typing **SBECFG.EXE** at the command prompt displays the following hardware settings:

- ☐ PCI Hardware Settings: Port, IRQ
- ☐ Sound Blaster Emulation: Port, IRQ, DMA
- ☐ MPU-401 Emulation (GM, Roland MT-32/LAPC-1) Emulation: Port
- ☐ Adlib Emulation: Port

The emulation settings appear only if they are enabled.

SBEMIXER.EXE

Use SBEMIXER.EXE to change the volume levels of the MPU-401 instrument set used on the SB Live! card. You can use SBEMIXER.EXE from the command line—useful for advanced users who want to set up batch files with particular volume levels—or within the SBEMIXER screen. The settings for SBEMIXER.EXE are independent of the Creative Mixer settings in Windows 95/98.

To set SBEMIXER values in the command line:

At the DOS prompt, type the SBEMIXER command in a single line. Its syntax is:

```
SBEMIXER [/S:x] [/W:x] [/C:x] [/M:x] [/?]
```

where square brackets [] denote optional parameters, and:

This

Parameter	Specifies
------------------	------------------

/S:x	Synth volume. <i>x</i> can be a value from the range 0 to 127.
/W:x	Wave volume. <i>x</i> can be a value from the range 0 to 127.
/C:x	CD audio volume. <i>x</i> can be a value from the range 0 to 127.
/M:x	Synth MT-32/LAPC-1 mode. For <i>x</i> , 0 is Off, 1 is On.
/?	View a short description of the parameters.

An example of an SBEMIXER command is

SBEMIXER /S:64 /W:120 /C:50 /M:0

which corresponds to “set the synth volume to 64, the Wave volume to 120, the CD audio volume to 50, and turn off the Synth MT-32/LAPC-1 mode”.

To set SBEMIXER values within the Mixer screen:

At the DOS prompt, type

SBEMIXER

The interactive editor mode allows you to change the mixer settings with the mouse, <Tab>, <PgUp>, <PgDn>, or arrow keys.

Use the Save button to save the settings for the next session.

SBESSET.EXE

Use SBESSET.EXE to manually configure SB resources or disable SB Emulation. By default, SB Emulation in DOS follows the Windows settings. For example, if you disable SB Emulation in Windows, in the next boot to DOS, SB Emulation in DOS disabled. Under rare circumstances you may need to manually reconfigure DOS SB Emulation, for example, if there is conflict in DOS before it can boot to Windows. SBESSET.EXE is run from the command line.

To set SBESSET values in the command line:

At the DOS prompt, type the SBESSET command in a single line. Its syntax is:

```
SBESSET [-Axxx] [-Ix] [-Dx] [-Hx] [-Pxxx] [-dx] [-wx]
```

where square brackets [] denote optional parameters, and:

This

Parameter	Specifies
-----------	-----------

-Axxx	SB interface's base I/O address.
-Ix	IRQ line used by the audio interface.
-Dx	First DMA channel used by the audio interface.
-Hx	Second DMA channel used by the audio interface.



See “System Resource Settings” on page B-3 for a list of the possible values.

- Pxxx MPU-401 UART interface's base I/O address.
- dx SB Emulation mode. For x , 1 is Off, 0 is On.
- wx Set x to 1 to use the Windows-assigned resource configuration.
 Set x to 0 to use (your) user-assigned resource configuration.

An example of an SBESET command is

SBESET -A240 -I5 -D3 -w0

which corresponds to “set the SB interface's base I/O address to 240, the IRQ line used by the audio interface to 5, the First DMA channel used by the audio interface to 3, and use the Windows-assigned resource configuration”.

SBEGO.EXE

Use this to confirm whether SB16 Emulation is properly installed and working.

Troubleshooting

This appendix provides tips for solving problems you may encounter during installation or normal use.

Problems Installing Software

In Windows, the installation does not start automatically after the CD-ROM is inserted.

The AutoPlay feature in your Windows system may not be enabled.

To start the installation program through the My Computer shortcut menu:

1. Double-click the **My Computer** icon on your Windows desktop.
2. In the **My Computer** window, right-click the CD-ROM drive icon.
3. On the shortcut menu, click **AutoPlay** and follow the instructions on the screen.

To enable AutoPlay through Auto Insert Notification:

1. Click **Start -> Settings -> Control Panel**.
2. In the **Control Panel** window, double-click the **System** icon.
3. In the **System Properties** dialog box, click the **Device Manager** tab and select your CD-ROM drive.
4. Click the **Properties** button.
5. In the **Properties** dialog box, click the **Settings** tab and select **Auto Insert Notification**.
6. Click the **OK** button to exit from the dialog box.

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.

To switch to an appropriate environment:

1. Open the **Environmental Audio** control applet in AudioHQ.
2. In the Environment list, select “No effects” or an appropriate environment.

No sound from the headphones.

Check the following:

- ☐ The headphones are connected to the Headphones jack.
- ☐ Under the **Speaker** view in the Main deck of Surround Mixer, make sure that the Speaker selected is “Headphones”.
- ☐ In the Mixer deck of Surround Mixer, the recording source selected is “What U Hear”.



If your record source is “What U Hear”, then at any one time, you can only select one of the five sources and mute the others. Therefore, you can get sound from the rear speakers only from the selected source.

In a 4-speaker configuration, there is no sound from the rear speakers.

Check the following:

- ☐ The rear speakers are connected to the audio card’s Rear Out jack.
- ☐ If you are playing sound from one of these sources:
 - CD Audio
 - Line In
 - TAD
 - Auxiliary (AUX)
 - Microphone

To solve the problem:

1. In Surround Mixer’s Mixer deck, make sure the source being played is selected, that is, enabled.
2. Select the same source as the record source.

For example, if you are playing DVD games or movies, make sure that you select the Auxiliary device and select the Auxiliary device as your record source in Surround Mixer.

- ☐ If you have changed environments, make sure that your active sources are selected in Surround Mixer.

No sound from the speakers.

Check the following:

- ☐ You have connected your speakers to your card's output.
- ☐ You have selected the correct source in the Mixer deck.
- ☐ If both the above conditions have been met and you still do not get any sound, click the **red plus sign** above the **VOL** control and check whether the **Digital Output Only** check box is selected. If it is, you are in the Digital Output Only mode and so must connect to digital speakers to hear the sound from your audio card. See the section on Digital Output Only in Surround Mixer's online help for more information.
- ☐ If your headphones are connected to the Live! Drive, disconnect them. Alternatively, open the Device Controls applet in AudioHQ, click the **Live! Drive** tab, and then clear the **Mute speakers when using headphones** check box.

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 Creative Mixer 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 "Resolving I/O Conflicts" on page C-7.

- ❑ The Speaker selection in the Main deck of Surround Mixer corresponds to your speaker or headphone configuration.
- ❑ The **Original Sound** sliders in either or both the **Master** and **Source** tabbed pages of the Environmental Audio applet are set to 100%.

No audio output when playing CD-Audio or DOS games that require a CD-ROM.

To solve this problem:

- Make sure the Analog Audio connector on the CD-ROM drive and the CD In connector on the audio card are connected.

Panning a source sometimes turns off its sound.

This occurs when you are in the Digital Output Only mode and the source's left-right balance in a software mixer application other than Surround Mixer (for example, the Windows Volume Control application) is at the opposite end compared to the position to which you have panned the source in the Main deck of Surround Mixer. For example, the CD Audio balance in Windows Volume Control is on the left but in Surround Mixer you have panned the CD Audio to the right.

To solve this problem:

- Open that other mixer, and center the balances for all the audio input sources.
This ensures that your analog sources will not turn silent when you pan them in Surround Mixer.

Problem with Surround Mixer

The mixer settings change unexpectedly every time the audio preset is changed.

To solve this problem:

- Dissociate the mixer settings.
 1. Click the Audio Preset Options icon in the upper right corner of Surround Mixer.

2. To dissociate mixer settings, make sure that **Dissociate Mixer Settings** is checked on the menu that appears.

Insufficient SoundFont Cache



The trade-off of a smaller SoundFont file is its lower sound quality.

There is insufficient memory to load SoundFonts.

This may occur when a SoundFont-compatible MIDI file is loaded or played while insufficient memory has been allocated to SoundFonts.

To allocate more SoundFont cache:

- On the **Options** tabbed page of the SoundFont Control applet, move the SoundFont Cache slider to the right.

The amount of SoundFont cache you can allocate depends on the system RAM available.

If there is still insufficient system RAM available:

- On the **Configure Banks** tabbed page of the SoundFont Control applet, select a smaller SoundFont bank from the **Select Bank** box.
The smallest SoundFont bank available is 2 MB (2MGMSMT.SF2).

Problems with Joystick

The joystick port is not working.

The audio card's joystick port may be conflicting with the system's joystick port.

To solve this problem:

- Disable the audio card's joystick port and use the system port instead. Do the following:
 1. Click **Start -> Settings -> Control Panel**.
 2. In the **Control Panel** window, double-click the **System** icon.
 3. In the **System Properties** dialog box, click the **Device Manager** tab.
 4. Double-click **Sound, Video And Game Controllers**, and then select **Creative Gameport Joystick**.

5. Click the **Properties** button.
6. In the **Properties** dialog box:
 - If you have an **Original Configuration (Current)** check box:
 - Clear the check box to disable it.
 - If you have a **Disable In This Hardware Profile** check box:
 - Make sure that the check box is selected to disable it.
7. Click **OK** to restart Windows and for the change to take effect.

When the Gameport Joystick interface is disabled, the entry in Device Manager has a red cross.

The joystick is not working properly in some programs.

The program may use the system processor timing to calculate the joystick position. When the processor is fast, the program may determine the position of the joystick incorrectly, assuming that the position is out of range.

To solve this problem:

- Increase your system's 8 bit I/O recovery time of the BIOS setting, usually under the Chipset Feature Settings section. Or, if available, you may adjust the AT Bus speed to a slower clock. If the problem persists, try a different joystick.



Do not attempt to make changes to the BIOS unless you have experience with system software.

Resolving I/O Conflicts



You can also refer to the Troubleshooting section in the Help file of Windows 95/98.

Conflicts between your audio card and another peripheral device may occur if your card and the other device are set to use the same I/O address.

To resolve I/O conflicts, change the resource settings of your audio card or the conflicting peripheral device in your system using Device Manager in Windows 95/98.

If you still do not know which card is causing the conflict, remove all cards except the audio card and other essential cards (for example, disk controller and graphics cards). Add each card back until Device Manager indicates that a conflict has occurred.

To resolve hardware conflicts in Windows 95/98:

1. Click **Start -> Settings -> Control Panel**.
2. In the **Control Panel** window, double-click the **System** icon.
3. In the **System Properties** dialog box, click the **Device Manager** tab.
4. Under the Sound, Video And Game Controllers entry, select the conflicting audio card driver—indicated by an exclamation mark (!)—and click the **Properties** button.
5. In the **Properties** dialog box, click the **Resources** tab.
6. Make sure that the **Use automatic settings** check box is selected, and click the **OK** button.
7. Restart your system to allow Windows 95/98 to reassign resources to your audio card and/or the conflicting device.

Problems in Windows NT 4.0

A Service Control Manager error message appears with one or more other error messages at system restart.

This occurs after you remove an audio card from your computer after you have successfully installed the Sound Blaster Live! card. Windows is trying to match the drivers to the removed audio card.

To solve this problem:

1. Log on to your computer as Administrator.

2. Click **Start** -> **Settings** -> **Control Panel**.
3. Double-click the **Multimedia** icon, and then click the **Devices** tab.
4. In the list, remove from under these entries
 - Audio Devices
 - MIDI Devices And Instrumentsthe items other than
 - Audio for Creative SB Live! Platinum 5.1
 - MIDI for Creative SB Live! Platinum 5.1
 - MIDI for Creative S/W Synth
5. Click the **OK** button to close the dialog box.
The drivers are removed.

Problems with Encore DVD Player (not included)

The Encore DVD Player is not launched when a DVD disc is inserted into the drive.

To solve this problem:

1. In the Windows system tray, right-click the Disc Detector icon, and then click **Properties**.
2. On the **General** tabbed page of the **Creative Disc Detector** dialog box, make sure that **Enable Disc Detector** check box is selected.
3. Click the **Players** tab.
4. Select the DVD Disc entry and then click the **Select Player** button.
5. In the **Players Properties** dialog box, click the **Browse** button.
6. Browse to C:\Program Files\Creative\PC- DVD Encore and double-click the entry **ctdvdply**
The **Name** box now displays the entry *ctdvdply*.
7. Click the **OK** button twice.

Now when you double-click the Disc Detector icon, the Encore DVD Player is launched.

Problems with Software DVD Player (not included)

Changing audio configuration (for example, switching from 6-channel mode to SPDIF Output mode or vice versa) while watching a DVD movie does not seem to work, even though all settings in the software DVD player and in Surround Mixer are correct.

To solve this problem:

- Close and restart the software DVD player.