

Live! Drive IR Quick Start

SB0010

Contents

Introduction	1
System Requirements	2
Your Live! Drive IR	3
Installing Hardware	7
Using Your Live! Drive IR	11
Installing Software.....	14
Using the RemoteCenter Remote Control	15
General Specifications	16
Troubleshooting.....	17

Introduction

Connect Live! Drive IR to your Sound Blaster Live! audio card to get the best audio solution available for your music, digital audio content creation, games, movies and other Internet entertainment. 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. 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.

System Requirements

The minimum system requirements for Live! Drive IR are:

- ☐ An installed Sound Blaster Live! (with an AUD_EXT expansion header)
- ☐ An available 5¼" PC drive bay
- ☐ 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
- ☐ 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
- ☐ Headphones or amplified speakers (available separately)
- ☐ CD-ROM drive required for software installation

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:

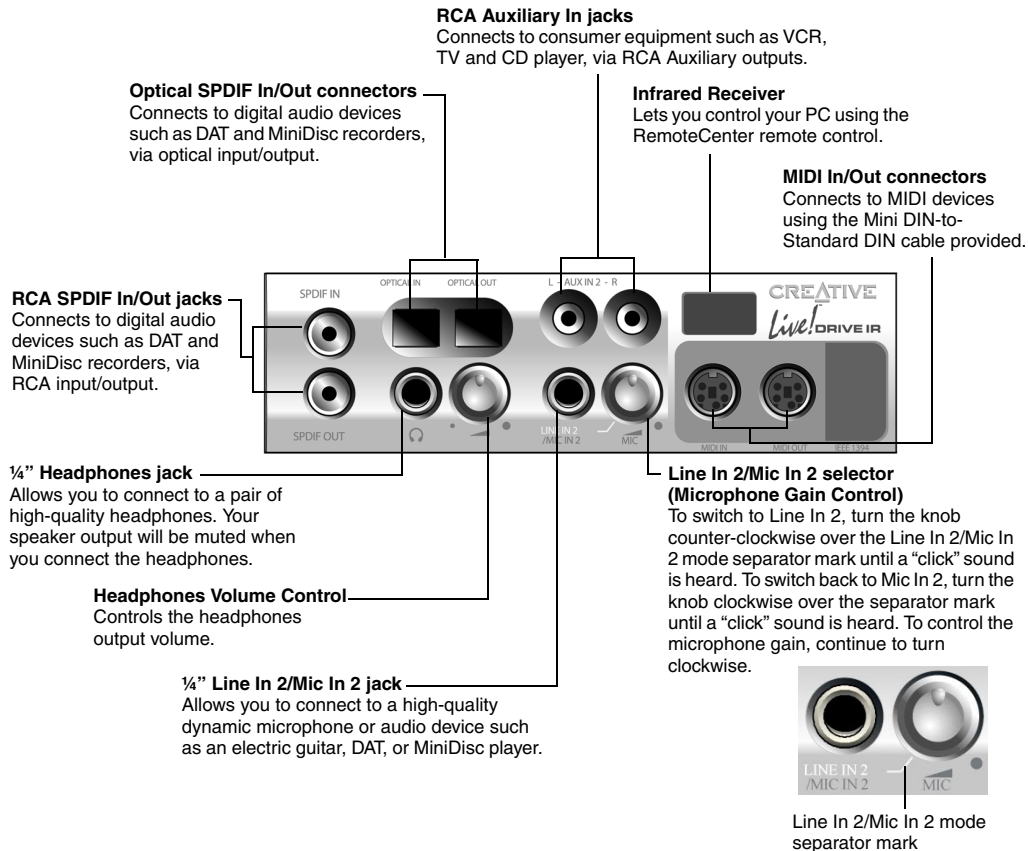


Figure 1: Jacks, connectors and controls on the Live! Drive IR.

Switching Audio Input Sources



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

On your Sound Blaster Live! and Live! Drive IR, 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! -> 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 14.

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! -> 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 1/4" stereo plug.
- ☐ Personal stereo headphones, which are usually fitted with a 3.5mm stereo plug, such as those used for portable audio players.

Connecting Microphone



The Jumper JP1 may not be available on certain models of Live! Drive IR.

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

- ☐ Dynamic microphone, which is usually fitted with a 1/4" stereo plug, such as those used in vocal performances.
- ☐ Condenser microphone, which is usually fitted with a 3.5mm stereo plug, such as the microphone bundled with Creative audio products.

By default, Live! Drive IR is set for use with a condenser microphone. To use a dynamic microphone, you must place the shunt (jumper cap) onto Jumper JP1 on the Live! Drive IR. See Figure 4 on page 8 for the location of Jumper JP1 on the Live! Drive IR.



The shunt for Jumper JP1 can be found together with the packet of screws provided.

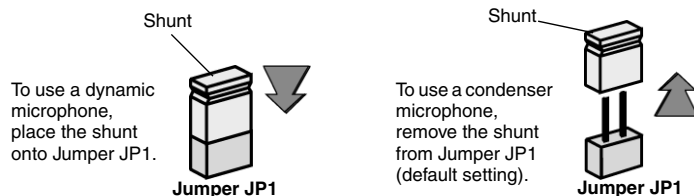


Figure 2: Microphone jumper settings.

Adjusting Headphones Volume and Microphone Gain

Using the Live! Drive IR Control Knobs

Using Creative Surround Mixer



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.



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.

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:

- ☐ **Counter-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!** -> **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.

To adjust the microphone gain:

1. Click **Start** -> **Programs** -> **Creative** -> **Sound Blaster Live!** -> **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.

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: Connect to the SB Live! Card
- ☐ Step 4: (Optional) Install the Digital DIN Metal Bracket (To connect to FPS2000, DTT2500 or DTT3500 digital speakers)
- ☐ Step 5: (Optional) Connect to 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 front panel cover from one unused 5¼" drive bay.

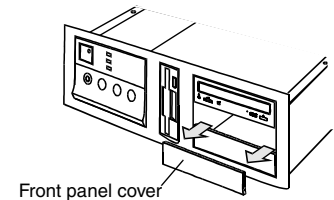


Figure 3: Removing front panel cover.

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 4.

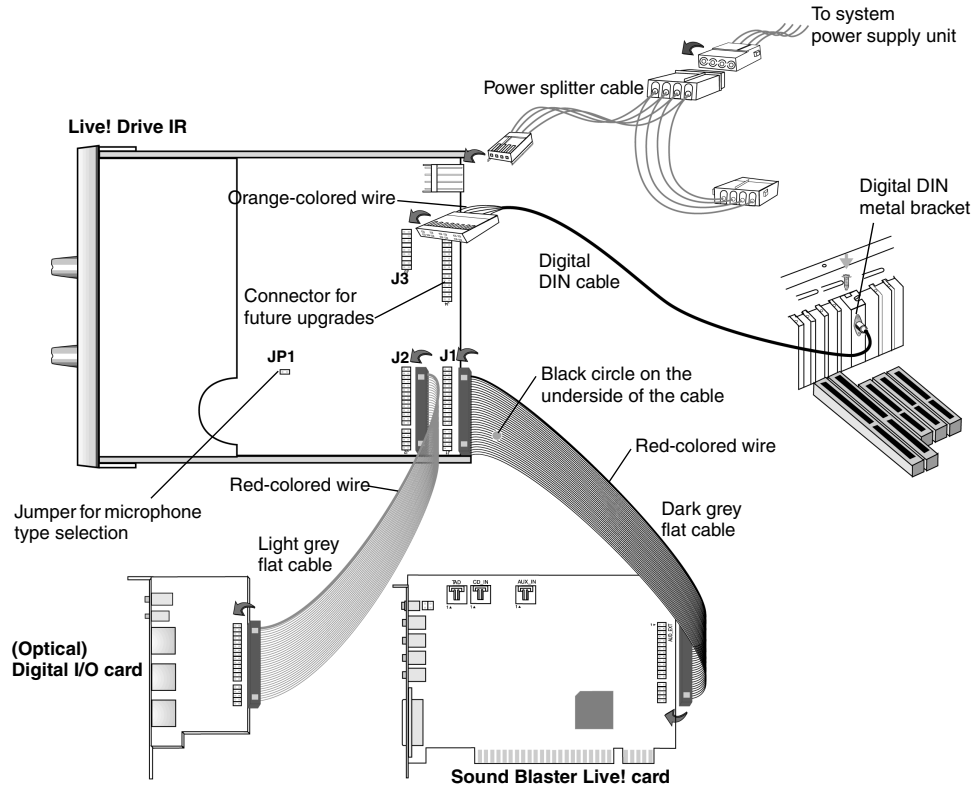


Figure 4: Connecting cables to the Live! Drive IR.

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: Connect to the SB Live! Card



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

- Connect the dark grey flat cable to Sound Blaster Live!'s AUD_EXT header.

If you have difficulty connecting to the AUD_EXT header:

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

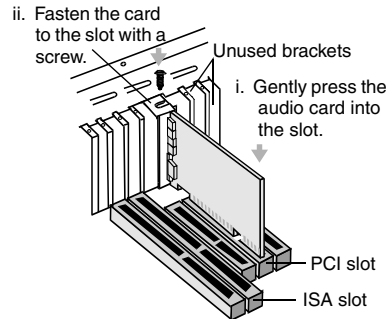


Figure 5: Securing the audio card to the PCI expansion slot.

Step 4: (Optional)
Install the Digital DIN
Metal Bracket
(To connect to FPS2000,
DTT2500 or 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)
Connect to the
Digital I/O Card
(Only if you have one)

- Connect the light grey flat cable to the Digital I/O card's AUD_EXT header.

If you have difficulty connecting to the AUD_EXT header:

1. Remove the Digital I/O card from the system.
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.

Using Your Live! Drive IR

Playing Games and Music, and Watching Movies

Watching DVD Movies Using SoftPC-DVD

Recording and Content Authoring



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

The Live! Drive IR will most undoubtedly give you endless hours of listening pleasure. The following information and diagrams on the next two pages show how you can connect to your Live! Drive IR to optimize your enjoyment.

- ☐ With FourPointSurround or DeskTop Theater 5.1 Digital Speaker System 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.
- ☐ If you are using Creative SoftPC-DVD to watch DVD movies on your PC, connect from the SPDIF Output of your Live! Drive IR to an external Dolby Digital (AC-3) decoder such as the DeskTop Theater speaker systems.
- ☐ 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.

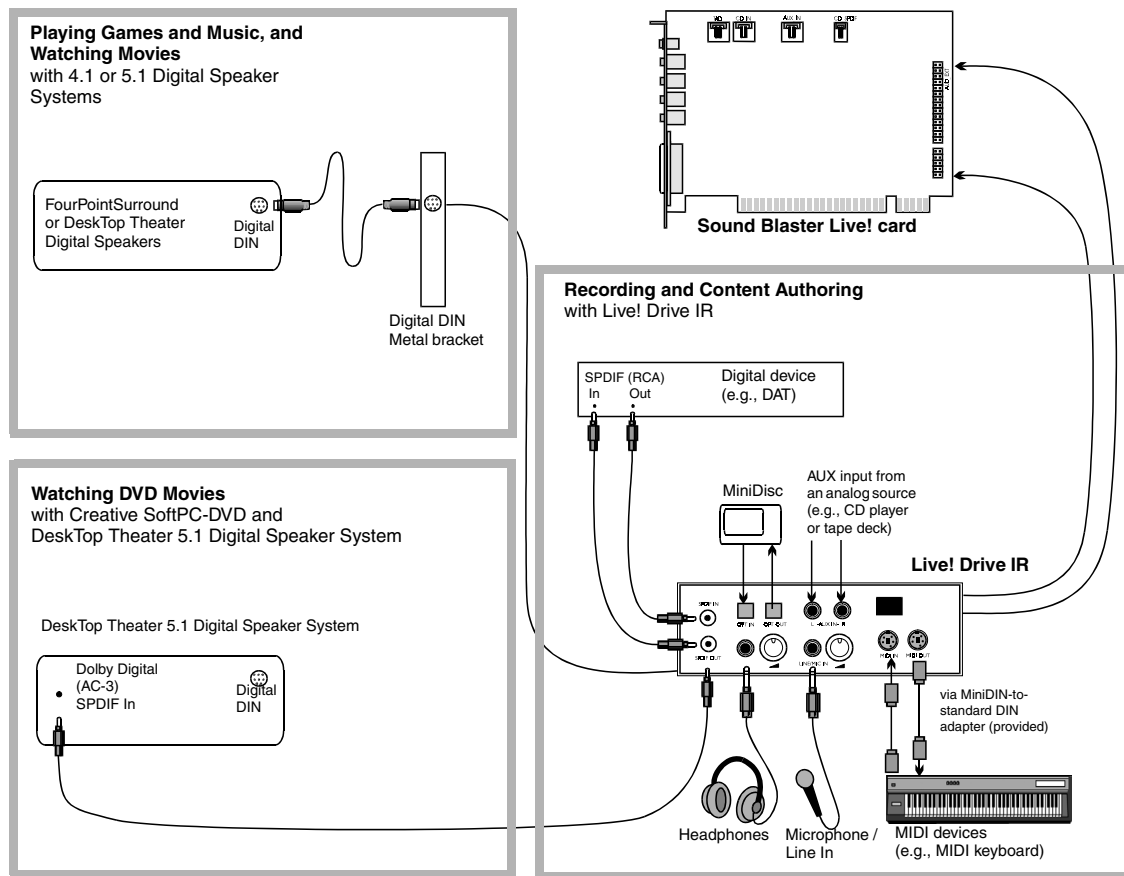


Figure 6: Connecting peripherals to the Live! Drive IR.

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.

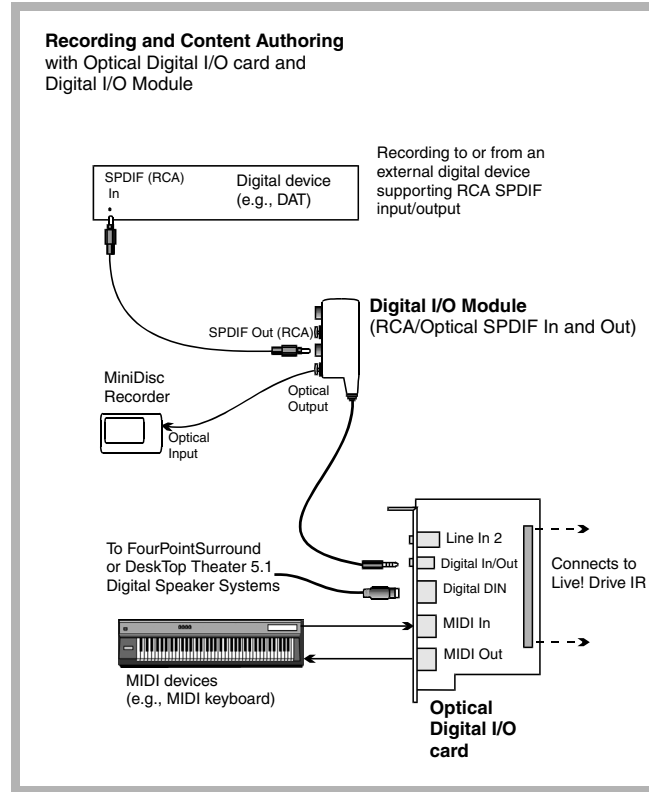


Figure 7: Connecting peripherals to an Optical Digital I/O card.

Installing Software

1. Insert the installation disc into your CD-ROM drive.
The disc supports Windows AutoPlay mode and starts running automatically. If not, see “Troubleshooting” on page 17.
2. Follow the instructions on the screen to complete the installation.

Additional Features in Device Controls

After you install the software for the Live! Drive IR, you will be able to enable the SPDIF Bypass feature for your digital inputs and outputs, and mute your speakers when you plug your headphones into Live! Drive IR. These two new features appear as two new tabbed pages in Device Controls.

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



When you enable this feature, remove the 1/4" to 3.5mm adapter from the Headphones jack if you are not using it. Otherwise, no sound will be heard from the speakers.

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.



Using the RemoteCenter Remote Control

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. For details, refer to the RemoteCenter online help.

General

Specifications

Audio Inputs and Outputs On Front Panel

- ☐ Two RCA jacks for coaxial SPDIF input and output
- ☐ One Headphone output with auto detection via ¼" stereo jack with volume control
- ☐ One shared line-level analog Line/Microphone input via ¼" stereo jack. Shared input selectable via switch with gain (or level) control
- ☐ Two mini DIN female connector 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! CARD) 2x20 pin header (J1) for connection to SB Live! 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

Troubleshooting

Problems Installing Software

The installation does not start automatically after the CD-ROM is inserted.

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

Solution 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.

Problems with Sound

No sound from the headphones.

Cause The headphones may not be connected or configured properly.

Solution 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 mode selected is “Headphones”.
- ☐ In the Mixer deck of Surround Mixer, the recording source selected is “What U Hear”.
- ☐ Jumper JP1 on the Live! Drive IR is set correctly for the type of microphone you are using. See “Connecting Microphone” on page 5 for details.

No sound from the speakers.

Cause The speakers may not be connected properly, the mixer settings may not be configured properly, or the headphones are connected to the Live! Drive IR.

Solution Check the following:

- ☐ The speakers are connected to your card's output.
- ☐ The correct source has been selected in the Mixer deck.

- ❑ If 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 and/or the 1/4" to 3.5mm adapter are connected to the Live! Drive IR, 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.

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Version 2.4, June 2000

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Safety & Regulatory Information

The following sections contain notices for various countries:

CAUTION: This device is intended to be connected by the user to a CSA/TUV/UL certified/listed IBM AT or compatible personal computers in the manufacturer's defined operator access area. Check the equipment operating/installation manual and/or with the equipment manufacturer to verify/confirm if your equipment is suitable for devices to be connected to it.

ATTENTION: Ce périphérique est destiné à être connecté par l'utilisateur à un ordinateur IBM AT certifié ou listé CSA/TUV/UL ou compatible, à l'intérieur de la zone d'accès définie par le fabricant. Consulter le mode d'emploi/guide d'installation et/ou le fabricant de l'appareil pour vérifier ou confirmer qu'il est possible de connecter d'autres périphériques à votre système.

Notice for the USA

FCC Part 15: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, this notice is not a guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try one or more of the following measures:

- ☐ Reorient or relocate the receiving antenna.
- ☐ Increase the distance between the equipment and receiver.
- ☐ Connect the equipment to an outlet on a circuit different from that to which the receiver is connected.
- ☐ Consult the dealer or an experienced radio/TV technician.
- ☐ Caution

To comply with the limits for the Class B digital device, pursuant to Part 15 of the FCC Rules, this device must be installed in computer equipment certified to comply with the Class B limits.

All cables used to connect the computer and peripherals must be shielded and grounded. Operation with non-certified computers or non-shielded cables may result in interference to radio or television reception.

Modifications

Any changes or modifications not expressly approved by the grantee of this device could void the user's authority to operate the device.

Notice for Canada

This apparatus complies with the Class “B” limits for radio interference as specified in the Canadian Department of Communications Radio Interference Regulations.

Cet appareil est conforme aux normes de CLASSE “B” d'interférence radio tel que spécifié par le Ministère Canadien des Communications dans les règlements d'interférence radio.

Compliance

This product conforms to the following Council Directive:

- ☐ Directive 89/336/EEC, 92/31/EEC (EMC), 73/23/EEC (LVD)

Declaration of Conformity

According to the FCC96 208 and ET95-19,

Manufacturer/Importer's Name: *Creative Labs, Inc.*

Manufacturer/Importer's Address: *1901 McCarthy Boulevard
Milpitas, CA. 95035
United States
Tel: (408) 428-6600*

declares under its sole responsibility that the product

Trade Name: *Creative Labs*

Model Numbers: *SB0010*

has been tested according to the FCC / CISPR22/85 requirement for Class B devices and found compliant with the following standards:

EMI/EMC: ANSI C63.4 1992, FCC Part 15 Subpart B
Complies with Canadian ICES-003 Class B.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

1. This device may not cause harmful interference, and
2. This device must accept any interference received, including interference that may cause undesirable operation.

Ce matériel est conforme à la section 15 des règles FCC.

Son Fonctionnement est soumis aux deux conditions suivantes:

1. Le matériel ne peut être source D'interférences et
2. Doit accepter toutes les interférences reçues, Y compris celles pouvant provoquer un fonctionnement indésirable.

*Compliance Manager
Creative Labs, Inc.
September 8, 2000*

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