

**Trust Sound Expert de Luxe Wave 32 3D**

**User's Manual**

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## Introduction

This manual is a guide to the installation and use of the sound card that represents the new generation in audio technology.

This sound card is able to reproduce, through an elaborate 16-bit architecture, crystal clear CD-quality sound, transforming your computer into a digital recording and playback studio. The sound card also incorporates three dimensional sound effects capability, giving you an added depth of spacial realism from your stereo speakers.

This sound card also provides a gateway to the widest selection of DOS and Windows applications because it supports the three major audio standards: AdLib, Sound Blaster Pro and Microsoft Windows Sound System.

What's more, you are not limited by the hardware; this sound card offers a host of upgrade options. These include a 16-bit PCM Wave Table Synthesis interface and a built-in IDE CD-ROM interface.

Therefore, with unsurpassed 16-bit sound quality, comprehensive software compatibilities, and versatile hardware upgrade options, this sound card provides the solution to your multimedia sound requirements of today and in the future.

## What you can find in this manual

This user's manual provides the information necessary for the use of all the features of your sound card. If you are a first time user, do take the time to read through the manual. You will be amazed at the capabilities of your sound card package.

This user's manual consists of:

*Chapter 1 - Audio Mixer Control Utilities for DOS* - describes how to use your sound card's DOS audio mixer utilities.

*Chapter 2 - Audio Mixer Control Utility for Windows* - describes how to use your sound card's Windows audio mixer utility.

*Appendix A - Troubleshooting* - provides solutions for problems you may encounter while using your sound card.

*Appendix B - Configuring your Sound Card* - describes how to configure the hardware settings on your sound card.

*Appendix C - Sound Card Layout* - provides an illustration of the sound card.

## Important Information

While every care has been taken to ensure that the instructions in this manual are complete, it is impossible to provide detailed information for every instruction. If you are not already familiar with the workings of the DOS/Windows environments, you are encouraged to read your MS-DOS and Windows user's guides thoroughly.

The user's manual assumes that the reader has a basic knowledge of DOS and its commands, including commands for changing directories and accessing floppy and hard disk drives. If you are using Windows, this manual assumes that you are familiar with all the basic procedures and methods of Windows, such as starting Windows, using the mouse, clicking on icons and controls, and choosing menu items.

Having basic knowledge of various DOS and Windows commands will enable you to better follow the instructions given in this user's manual.

Take note of the following information when reading through the documentation packaged with your sound card:

**[Key] + [Key]** Refers to keys found on the keyboard. The + sign between two keys means that both keys must be pressed simultaneously.

### Note

A **note** refers to information that should be taken note of.

## Chapter 1 - Audio Mixer Utilities for DOS

There are two mixer utilities included with the sound card's software which can be used to control the sound card's audio output in the DOS environment. One is memory-resident-based (**MIXTSR.EXE**), and the other is DOS command-line-based (**VOLSET.EXE**).

In addition, there is a further DOS utility which can be used to turn on or off the sound card's 3D sound effects feature.

### 1.1 Memory-Resident Mixer (MIXTSR.EXE)

This is a Terminate-Stay-Resident (TSR) program which allows you to control the sound card's audio output while running DOS applications.

With this TSR feature the mixer utility can be used at any time, even while you are running other software. Once you have adjusted the mixer settings, you can return to your software and continue where you left off.

#### 1.1.1 Loading the MIXTSR.EXE Mixer

1. Navigate to the **{PATH}\UTILITY** directory. **{PATH}** in this case refers to the location where the sound card's software has been installed.
2. Type **MIXTSR** and press **[Enter]** to load the mixer program.

If the mixer utility has been successfully loaded into memory, the following screen message will appear.

```
Mixer Control Version 1.0
.....
Mixer Control TSR is loaded.
Press "<ALT> + /" to activate Mixer.
Type "MIXTSR /Q" to unload Mixer from memory.
```

#### 1.1.2 Turning On the MIXTSR.EXE Mixer

Once you have loaded **MIXTSR.EXE** into memory, you can turn on the mixer utility by:

Press **[Alt] + [/]**

This displays the **Mixer Control** panel with the **Volume** option selected by default.

#### Figure 1

#### 1.1.3 Using the MIXTSR.EXE Mixer

There are four options in the **Mixer Control** panel: **Volume**, **Record**, **Save** and **Exit**.

To select an option:

Use the **[PageUp]** or **[PageDown]** keys to select the mixer option.

Alternatively, press the highlighted letter of the option: **[V]** for **Volume**, **[R]** for **Record**, **[S]** for **Save** and **[E]** for **Exit**.

At each selected option, the panel changes to show the configurable mixer functions for the options you have chosen.

## Volume Option

The volume option allows you to adjust the sound card's output volume. There are several audio sources within this option and they are described below:

Audio Source	Description
Master	Controls the master output volume.
SB Voice	Controls the ".VOC" and ".WAV" files output volume.
FM/WT	Controls the FM Music Synthesis and Wave Table Synthesis output volume.
CD	Controls the CD Audio output volume.
Line	Controls the Line-In output volume.
Mic	Controls the Microphone output volume.
Master Balance	Controls the left/right balancing of the sound card's output volume.
Playback Stereo	Switches the playback stereo mode On or Off (mono).

To adjust the output volume of an audio source:

1. Use the [**Tab**] key to select the audio source.
2. Press [←] to decrease the volume and [→] to increase the volume.

It is possible to separately control the volume for the left and right channels of an audio source. This can be done as follows:

1. Use the [**Tab**] key to select the audio source.
2. Press [↑] to select the left channel and [↓] to select the right channel.
3. Press [←] to decrease the volume and [→] to increase the volume.
4. Press [**Home**] to return to the default mode (both channels).

To adjust the left/right balancing of the sound card's output volume:

1. Use the [**Tab**] key to select **Master Balance**.
2. Press [←] to direct audio output to the left channel and [→] to direct audio output to the right channel.

To adjust the playback stereo mode:

1. Use the [**Tab**] key to select **Playback Stereo**.
2. Press [**Enter**] to switch between **On** or **Off** (mono).

## Record Option

The record option allows you to select a recording source for your sound card. After selecting the **Record** option, you will see:

*Figure 2*

The recording sources include **MIC** (for microphone), **CD** (for CD Audio), **LINE IN** (for Line-In) and **MIX** (for combining the three sources).

To select a recording source:

Use the [**Tab**] key to select the audio source and press [**Enter**].

This returns you to the main screen.

## Save Option

The save option allows you to save whatever changes made to the mixer utility. After selecting the **Save** option, you will see:

Figure 3

To save the changes,

1. Use the [**Tab**] key to select **Yes**.
2. Press [**Enter**] to save the current mixer settings.

This returns you to the main screen.

## Exit Option

The exit option allows you to exit the mixer utility. After selecting the **Exit** option, you will see:

Figure 4

To quit the mixer program:

1. Use the [**Tab**] key to select **Yes**.
2. Press [**Enter**] to confirm.

This removes the **Mixer Control** panel from the screen.

Although the **Mixer Control** panel is not displayed on screen, it is still present in memory. If you wish to use the mixer utility, press [**Alt**] + [**l**].

### 1.1.4 Unloading the MIXTSR.EXE Mixer

Take note of the following pointers when unloading the mixer:

- Do not unload the mixer utility from the "DOS Shell" of another program. The mixer utility will not be removed from memory.
- You should quit all software loaded after the mixer utility before unloading the **MIXTSR.EXE** mixer.

To unload the mixer utility from memory:

1. Quit all programs loaded after the mixer utility.
2. Navigate to the **{PATH}\UTILITY** directory. **{PATH}** in this case refers to the location where the sound card's software has been installed.
3. Type **MIXTSR /Q** and press [**Enter**] to unload the mixer program.

If the mixer utility was successfully removed from memory, the following message is displayed on the screen:

```
Mixer Control Version 1.0
.....
Mixer Control TSR is unloaded from memory.
```

## 1.2 DOS Command-Line Mixer (VOLSET.EXE)

The audio mixer utility allows you to adjust the audio output of your sound card directly from the DOS prompt.

### 1.2.1 Starting the VOLSET.EXE Mixer

1. Navigate to the {PATH}\UTILITY directory. {PATH} in this case refers to the location where the sound card's software has been installed.
2. Type **VOLSET** and press [Enter].

This displays additional information on the mixer utility, including its command line format and its possible settings.

### 1.2.2 Using the VOLSET.EXE Mixer

To use this utility, type **VOLSET** followed by the option you wish to change and the value you wish to change it to.

For example, to set the microphone volume to 10 on the left channel, and 8 on the right channel, you would type:

**VOLSET /M:10, 8**

The possible settings for the **VOLSET.EXE** mixer are described in the table on the following page:

Option	Value	Description
/?	-	Displays the help screen.
/MR	-	Resets the mixer settings back to the factory default values.
/MS	-	Stores the current mixer settings.
/D	-	Displays the current mixer settings.
/V	L: 0 - 16 R: 0 - 16	Sets the ".VOC" and ".WAV" output volume. L for the left channel and R for the right channel.
/M	0 - 16	Sets the Microphone output volume.
/X	L: 0 - 16 R: 0 - 16	Sets the master output volume. L for the left channel and R for the right channel.
/F	L: 0 - 16 R: 0 - 16	Sets the FM Music Synthesis and Wave Table Synthesis output volume. L for the left channel and R for the right channel.
/C	L: 0 - 16 R: 0 - 16	Sets the CD Audio output volume. L for the left channel and R for the right channel.
/L	L: 0 - 16 R: 0 - 16	Sets the Line-In output volume. L for the left channel and R for the right channel.
/R	M C L X	Selects the recording source. M for microphone, C for CD Audio, L for Line-In, and X for combining the three sources.
/S	S M	Sets the playback mode. S for Stereo and M for Mono.

### 1.3 DOS 3D Stereo Utility (S3D.EXE)

The **S3D.EXE** utility allows you to enable or disable the sound card's 3D stereo effects directly from the DOS prompt.

#### 1.3.1 Starting the S3D.EXE Utility

1. Navigate to the **{PATH}\UTILITY** directory. **{PATH}** in this case refers to the location where the sound card's software has been installed.
2. Type **S3D** and press **[Enter]**.

This displays additional information on the mixer utility, including its command line format and its possible settings.

#### 1.3.2 Using the S3D.EXE Utility

To turn on the 3D stereo effects type -

**S3D /3D:ON**

To turn off the 3D stereo effects type -

**S3D /3D:OFF**

## Chapter 2 - Audio Mixer Utility for Windows

A mixer utility is included with the sound card's software which can be used to control the sound card's audio output in the Windows environment.

### 2.1 Starting the Windows Mixer

The Windows mixer icon is found in the program group created by the sound card's setup program.

Double click the **Mixer Control** icon. This displays the mixer panel.

### 2.2 Using the Windows Mixer

- A Balance slider
- B Master Volume slider
- C Recording Control button
- D Volume Control button
- E Lock button
- F Mute button
- G 3D Stereo button

### 2.2.1 Adjusting the Output Volume and Balance

The **Master Volume** slider allows you to adjust the sound card's output volume. Move the slider *up* to increase the volume and *down* to decrease the volume.

The **Balance** slider allows you to adjust the left/right balancing of the sound card's output volume. Move the slider *left* to direct audio output to the left channel and *right* to direct audio output to the right channel.

The Windows mixer allows you to individually adjust the sound card's audio sources:

Click the **Volume Control** button. This displays an extended view of the volume control panel.

There are several sliders within the extended view of the volume control panel and these are described in the table below:

Sliders	Description
Wave	Controls the ".WAV" file output volume.
FM/WT	Controls the FM Music Synthesis and Wave Table Synthesis output volume.
CD	Controls the CD Audio output volume.
Line-in	Controls the Line-In output volume.
Mic	Controls the Microphone output volume.

When adjusting the output volume, the audio source's left and right sliders will move together because the lock mode is enabled (indicator is lighted).

It is possible to separately control the volume for the left and right channels of an audio source by disabling the lock mode.

The 3D button can be used to enable or disable the sound card's 3D stereo effects. The 3D stereo effects are enabled when the button is lit.

### 2.2.2 Selecting a Recording Source

Your sound card is capable of recording from a variety of audio sources. The recording sources include the Microphone, Line-In, CD Audio or a combination of the three.

Click the **Recording Control** Button. This displays an extended view of the record control panel.

Select the recording source by clicking at the relevant icon:

Selects the Microphone source.

Selects Line-In source.

Selects the CD Audio source.

Records from the above three sources.

The recording gain level can be controlled by the **Gain** slider. You can separately control the recording gain for the left and right channels of an audio source by disabling the lock mode.

## Appendix A - Troubleshooting

It is possible that while using your sound card, you may encounter some problems. However, before you call the technical support, please review the basic troubleshooting guide below for solutions.

### "Sound Card is not Found!" appears when you run the diagnostics program

Cause	Solution
Your sound card is not properly installed.	Check that your sound card is fully inserted in its expansion.

### No sound when you run the diagnostics program

Causes	Solutions
Your speakers or headphones are not properly connected.	Check that your speakers or headphones are firmly plugged into the correct connector on the sound card.
Your sound card's volume is set too low.	Check that the sound card's output volume is not muted or set too low. You can adjust the sound card's output volume with the mixer utility. For more details, refer to Chapter 1 and 2 in the User's Manual.
There is a hardware conflict with another device on your system.	Change the sound card's hardware settings (Base I/O Port Address, Interrupt, and/or DMA Channel) with the configuration program. For more details, refer to Appendix B in the User's Manual.
The sample audio files are not found in their default location.	Check that the DEMO16.WAV and SAMPLE.VOC files are in the same location as the diagnostics program.

### No sound during normal usage

Causes	Solutions
Your audio equipment is not properly connected.	Check that all connections are firmly plugged into the correct connectors on the sound card.
Your sound card's volume is set too low.	Check that the sound card's output volume is not muted or set too low. You can adjust the sound card's output volume with the mixer

There is a hardware conflict with another device on your system.

### No sound when in Windows

Causes	Solutions
You have installed another sound card's Windows driver.	Remove the conflicting audio driver and re-install your sound card's Windows driver using the SETUP.EXE program.
You have removed your sound card's Windows driver.	Re-install your sound card's Windows driver with the SETUP.EXE program.

utility. For more details, refer to Chapter 1 and 2 in the User's Manual.

Change the sound card's hardware settings (Base I/O Port Address, Interrupt, and/or DMA Channel) with the configuration program. For more details, refer to Appendix B in the User's Manual.

## Appendix B - Configuring your Sound Card

Your sound card is set at the factory with the standard settings. These settings should allow your sound card to work in your computer without any problem. However, in certain situations, some of the factory settings may conflict with those of the other devices on your computer. If this happens, you can modify the affected hardware settings on your sound card.

Some of the hardware settings on your sound card are set by jumpers, while others are set by a configuration program.

### B.1 Changing the Jumper Settings

Some of the sound card's hardware settings are set by jumpers. A jumper is a row of pins with a plastic cap fitted over some of them. You can change the setting by moving the plastic cap over a different set of pins. Refer to Figure 5.

The settings on your sound card which are set by jumpers include:

- IDE CD-ROM Interface Jumper (IDESEL)
- Microphone Jumper (JX1)
- Base Address Jumper (JMPB0)

Figure 5

#### Note

There are other jumpers on the sound card whose settings cannot be changed. Do not touch these jumpers.

#### B.1.1 IDE CD-ROM Interface Jumper (IDESEL)

Jumper **IDESEL** is used to enable or disable the IDE CD-ROM interface on your sound card. The settings of this jumper are :

Jumper IDESEL	Settings
Pins 1 - 2 close	IDE CD-ROM Interface is disabled.
Pins 2 - 3 close	IDE CD-ROM Interface is enabled.*

\* default setting

#### B.1.2 Microphone Selection Jumper (JX1)

Jumper **JX1** is used to specify the type of microphone you are using. The settings of this jumper are:

Jumper JX1	Settings
Pins 1 - 2 close	A Condenser microphone is connected.*
Pins 2 - 3 close	A Carbon microphone is connected.

\* default setting

#### B.1.3 I/O Port Address Jumper (JMPB0)

Jumper **JMPB0** is used to specify the I/O port address range used by the sound card. The settings of this jumper are:

Jumper JMPB0	Settings
Pins 1 - 2 close	I/O port address range 220H - 22FH is used.*
Pins 2 - 3 close	I/O port address range 240H - 24FH is used.

\* default setting

## B.2 Changing the Hardware Settings using Software

In addition to jumpers, there are hardware settings on your sound card which can only be changed with software. This is achieved by using either one of the two available DOS-based configuration programs:

**CONFIG.EXE** This is a menu driven program which allows you to change the sound card's hardware settings through a series of on-screen menu options.

**HWSET.EXE** This is a command-line program which allows you to change the sound card's hardware and mixer settings directly from the DOS prompt.

### B.2.1 Starting the CONFIG.EXE Program

1. Navigate to the {PATH}\UTILITY directory. {PATH} in this case refers to the location where the sound card's software has been installed.
2. Type **CONFIG** and press **[Enter]** to start the configuration.

This displays a welcome screen.

3. Press **[Enter]** to proceed with the configuration program.

This displays the configuration program's main menu as shown in Figure 6.

Figure 6

### B.2.2 Using the CONFIG.EXE Program

There are six options within the CONFIG.EXE program's main menu. Each of these options contains several configurable hardware settings of the sound card.

To select an option:

1. Use the [↑], [↓], [←] and [→] keys to select an option.
2. Press **[Enter]** to access the hardware settings within the option.

The six options include **Sound Blaster**, **Microsoft Windows Sound System**, **MPU401 (MIDI)**, **CD-ROM Drive**, **Default Setting**, and **Quit Configuration**.

#### Sound Blaster Option

Hardware Settings	Available Values	Description
Port Address	<ul style="list-style-type: none"><li>• 220H*</li><li>• 240H</li></ul>	Specifies the I/O port address range used by the sound card's Sound Blaster compatibility module. The two available I/O port address ranges include 220H - 22FH and 240H - 24FH. The selection of an I/O port address range is achieved by specifying the base address of the particular range, i.e. 220H or 240H.
Interrupt	<ul style="list-style-type: none"><li>• IRQ 2</li><li>• IRQ 5*</li><li>• IRQ 7</li><li>• IRQ 10</li></ul>	Specifies the interrupt used by the sound card's Sound Blaster compatibility module.
DMA Channel	<ul style="list-style-type: none"><li>• DMA 0</li><li>• DMA 1*</li><li>• DMA 3</li></ul>	Specifies the DMA channel used by the sound card's Sound Blaster compatibility module.
Game Port	<ul style="list-style-type: none"><li>• Enable*</li><li>• Disable</li></ul>	Enables or disables the sound card's game port. The sound card's game port should be disabled if you already have a joystick connected to another device on your PC.

\* default setting

## Microsoft Windows Sound System

Hardware Settings	Available Values	Description
Use MWSS	<ul style="list-style-type: none"> <li>• Yes*</li> <li>• No</li> </ul>	Enables or disables the sound card's Microsoft Windows Sound System compatibility module.
Port Address	<ul style="list-style-type: none"> <li>• 530H*</li> <li>• 604H</li> <li>• E80H</li> <li>• F40H</li> </ul>	<p>Specifies the I/O port address range used by the sound card's Microsoft Windows Sound System compatibility module. The four available I/O port address ranges include 530H - 537H, 604H - 60BH, E80H - E87H and F40H - F47H.</p> <p>The selection of an I/O port address range is achieved by specifying the base address of the particular range, i.e. 530H, 603H, E80H or F40H.</p>

\* default setting

## MPU401 (MIDI) Option

Hardware Settings	Available Values	Description
MPU401 Enabled	<ul style="list-style-type: none"> <li>• Yes*</li> <li>• No</li> </ul>	Enables or disables the sound card's MIDI (MPU401) module.
Port Address	<ul style="list-style-type: none"> <li>• 300H</li> <li>• 330H*</li> </ul>	<p>Specifies the I/O port address range used by the sound card's MIDI (MPU401) module. The two available I/O port address ranges include 300H - 301H and 330H - 331H.</p> <p>The selection of an I/O port address range is achieved by specifying the base address of the particular range, i.e., 300H or 330H.</p>
Interrupt	<ul style="list-style-type: none"> <li>• IRQ 2*</li> <li>• IRQ 5</li> <li>• IRQ 7</li> <li>• IRQ 10</li> </ul>	Specifies the interrupt used by the sound card's MIDI (MPU401) module.

\* default setting

## CD-ROM Drive Option

The CD-ROM Drive option allows you to install or remove the CD-ROM driver for your IDE CD-ROM drive.

Hardware Settings	Available Values	Description
CD-ROM Model	<ul style="list-style-type: none"> <li>• IDE CD-ROM</li> <li>• No CD-ROM</li> </ul>	Install or remove the driver for the IDE CD-ROM drive.

## Default Setting Option

This option allows you to change back all the hardware settings to their original factory default settings.

## Quit Configuration Option

This option allows you to exit the configuration program.

### B.2.3 Starting the HWSET.EXE Program

1. Navigate to the {PATH}\UTILITY directory. {PATH} here refers to the location where the sound card's software has been installed.
2. Type **HWSET** and press [Enter].

This displays additional information on the **HWSET.EXE** program, including its command line format and its possible settings.

### B.2.4 Using the HWSET.EXE Program

To use this program, type **HWSET** followed by the option you wish to change and the value you wish to change it to.

For example, to set the sound card's MIDI module I/O port address to 330H, you would type:

**HWSET /MPUA:330 [Enter]**

The possible settings for the **HWSET.EXE** configuration program are described in the following table.

Possible settings for the **HWSET.EXE** configuration program:

Options	Values	Description
/S, / ?	-	Displays the help screen.
/MR	-	Resets the sound card hardware settings back to the factory default values.
/MS	-	Saves the current sound card hardware settings.
/SBA	220* or 240	Sets the Sound Blaster compatibility module's I/O port address range.
/MPUA	300 or 330*	Sets the MPU401 (MIDI) module's I/O port address range.
/MSSA	530*, 604, E80 or F40	Sets the Microsoft Windows Sound System compatibility module's I/O port address range.
/SBDMA	0, 1* or 3	Sets the Sound Blaster DMA channel.
/SBIRQ	2, 5*, 7 or 10	Sets the Sound Blaster compatibility module's interrupt.
/MPUIRQ	2*, 5, 7 or 10	Sets the MPU401 (MIDI) module's interrupt.
/GPA	E* or D	Enables (E) or disables (D) the sound card's game port.
/MSS	E* or D	Enables (E) or disables (D) the Microsoft Windows Sound System compatibility module.
/MPU	E* or D	Enables (E) or disables (D) the MPU401 (MIDI) module.

\* default setting

### B.3 The SETMODE.EXE Utility

When you use the sound card in the DOS environment, the sound card is by default configured to the Sound Blaster compatibility mode. When you are in the Windows environment, the sound card is automatically configured to the Microsoft Windows Sound System compatibility mode.

With the **SETMODE.EXE** utility, it is possible to configure the sound card to run in the Microsoft Windows Sound System compatibility mode when in the DOS environment.

To do so:

1. Navigate to the **{PATH}\UTILITY** directory. **{PATH}** in this case refers to the location where the sound card's software has been installed.

2. Type **SETMODE/MSS** and press **[Enter]**.

To return to the Sound Blaster compatibility mode,

1. Navigate to the **{PATH}\UTILITY** directory. **{PATH}** in this case refers to the location where the sound card's software has been installed.

2. Type **SETMODE/SBP** and press **[Enter]**.

## Appendix C - Sound Card Layout

- IDE IDE CD-ROM Interface
- JMPB0 Base Address Jumper
- JX1 Microphone Selection Jumper
- JP1 CD Audio-In Connector
- MIC1 MPC Microphone Connector
- LOUT1 MPC Line-Out Connector
- SPK1 MPC Speaker Connector