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NOTE: To avoid damage of your speakers, always turn down the volume or turn off the power of your amplifier / active speakers connected to STRIKER7.1 when you are booting or shutting down your PC

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### 1. Introduction

Thanks for choosing an HT OMEGA audio solution! This manual will guide you in configuring the Advanced Driver Software Architecture (ADSA<sup>TM</sup>) used by the STRIKER7.1. Powered by Dolby<sup>®</sup> Digital Live encoder (AC3), DTS CONNECT (DTS INTERACTIVE for DTS signal encoder, DTS NEO:PC for up-mix technology) and Xear 3D<sup>TM</sup> technology, the STRIKER7.1 provides a value-added PC audio solution with maximum support for all kinds of applications. With this manual, users can quickly take advantage of these great features to enjoy amazing sound quality.

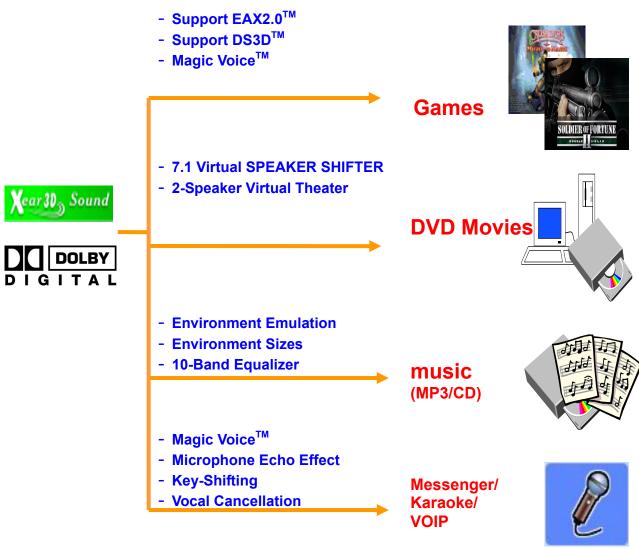


Figure 1. ADSA<sup>TM</sup> Features for All Applications

### What's in the box?

You should have received the following with your STRIKER7.1:

- HTO STRIKER7.1 soundcard
- Drivers/Applications CD
- Fiber Optical Digital Cable
- This manual

### **Specifications**

### (1) Sound Processor

 C-Media CMI8770/PCI-8ch PCI Chipset (8CH audio chipset with Dolby® Digital Live Real-Time Content Encoder and DTS CONNECT technology enabled PCI audio chipset)

### (2) Interface

- High performance OPAMPs for each output channels
- Enhanced microphone input level circuit design
- Onboard Optical transmitter for Optical Digital Output, Gold Plated RCA connector for Coaxial Digital Output
- Two onboard S/PDIF Input connectors: 2pin connector for Coaxial and onboard Optical Input connector.
- S/PDIF Input for recording, monitoring, bypassing digital audio.
  (Note: Non-PCM data cannot be recorded and monitored)
- C-Media Xear 3D 7.1 Virtual Speaker SHIFTER technology
- DirectSound 3D
- Unique Karaoke functionality: Mic Echo, Key-shifting, Vocal Cancellation
- 10-band Equalizer with 12 preset modes; 27 global environment effects
- Front Panel Audio support: 10pin connector for Front Panel Audio of PC case.
  It supports link detection automatically. With the front panel audio enabled, users can connect a second microphone without any reduction of input signal levels. (U.S. Patent Pending)
- 16Pin Standard MIDI I/O Header that supports MPU-401 MIDI Port

### 2. Features Overview

The following is an overview of the features of the STRIKER7.1. The STRIKER7.1 drivers support recent generation multi-channel digital functions including Dolby Digital Live, DTS Interactive, and the following key features:

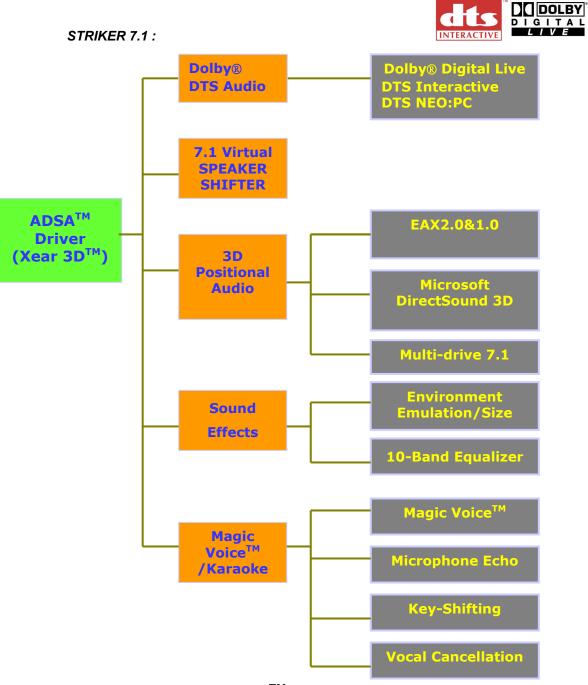


Figure 2. ADSA<sup>TM</sup> Xear 3D Driver Function Diagram

- Dolby® Digital Live: A real-time encoding technology, Dolby® Digital Live converts any audio signal into a Dolby® Digital bit stream (48kHz at 640Kbps). Dolby® Digital Live provides a single cable connection (via coaxial or optical) to your Dolby® Digital enabled surround sound system. The real-time interactive capabilities of Dolby® Digital Live technology are ideally suited to PCs because it reproduces audio cues and effects that follow the on-screen action, transforming game play into an exciting and realistic entertainment.
- DTS INTERACTIVE: A real-time encoder that takes any LPCM (2 channel or more) and encodes it into DTS® bit stream (48kHz at 1.5 Mbps). DTS INTERACTIVE provides a single cable connection (via coaxial or optical) to your DTS enabled surround sound system. Your stereo or multi-channel (up to 5.1) audio sources are re-encoded into a DTS® audio signal and sent out from the "STRIKER 7.1" to any DTS® enabled system such as, powered PC speakers, an A/V receiver or any other DTS- compatible surround decoder sound system. The installation process is simple and eliminates the clutter, tangles, and cost of multiple analog cables.
- DTS NEO:PC: An up-mix matrix technology that turns any 2 channel audio into 7.1 surround sound. You can turn your stereo audio (WMA, MP3, CD, and more!) into a convincing multi channel audio experience. Borrowing from DTS® NEO:6 technology that provides you with surround sound from stereo sources in high-end home theatre products, NEO:PC is optimized for your personal computer and is the perfect companion to DTS INTERACTIVE.

### System Requirements (Minimum)

- Genuine Intel® Pentium® III 800 MHz or equivalent AMD® processor
- 256 MB RAM
- Microsoft® Windows XP
- Available PCI slot for the audio card
- Headphones or 2channel amplified speakers (available separately)
- 500 MB of free hard disk space
- CD-ROM or DVD-ROM drive required for software installation from CD
- Available empty slot for the optional MIDI port bracket (Optional)

### 3. Installing H/W, S/W, and Speakers

### 3.1 STRIKER 7.1 Hardware

(1) Connectors on Bracket

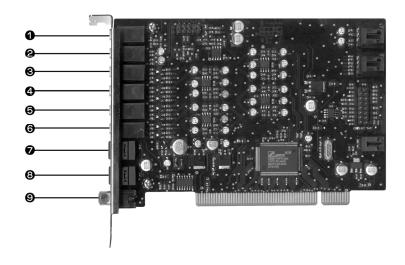


Figure 3. Connectors on Bracket

- ① **MIC IN (3.5mm Stereo-jack):** Connects to external microphone input.
- ② LINE IN (3.5mm Stereo-jack): Connects to external analog line-level sources.
- ③ FRONT (3.5mm Stereo-jack): Connects to Front Left/Right inputs on powered analog speakers, an external amplifier or headphones.
- (4) SIDE SURROUND (REAR / 3.5mm Stereo-jack): Connects to Rear Left/Right inputs on powered multi-channel analog speakers or receiver.
- (5) **CENTER/S.WOOFER** (3.5mm Stereo-jack): Connects to Center and Sub-Woofer inputs on powered multi-channel analog speakers or receiver.
- **® BACK SOURROUND (3.5mm Stereo-jack):** Connects back Surround inputs on powered multi-channel analog speakers or receiver.
- ⑦ OPTICAL INPUT (S/PDIF OPTICAL Digital Input connector): Connection for external digital output device. Non-PCM signal such as Dolby® Digital, DTS® stream will pass-through to digital output connectors.
- **® OPTICAL OUTPUT**: Connects to external digital devices like AV receivers, decoders or digital speaker systems.

### (2) Headers/Connectors on board

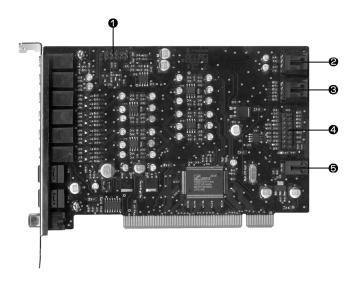


Figure 4. Headers/Connectors on board

① Front Panel Audio (10 Pin Header): Connects to the Front Panel Audio Cable of your PC case. Pin configuration:

Pin 1 - MIC

Pin 2 - Ground

Pin 3 - Bias (MIC Power)

Pin 5 - Front Right

Pin 9 - Front Left

Pin 4,6,7,8 and 10 are not available

Front Panel Audio function supports auto detection of resistance levels. When a user connects headphones to the Front Panel Audio, the analog outputs of the sound card will be muted automatically while connecting computer speakers will not mute the analog outputs. This advanced feature checks the impedance level of the device connected to the Front Panel Audio. Headphones have higher resistance levels than typical computer speakers. Therefore, if your headset is equipped with a volume level control, it may need to be set above a certain level in order to automatically mute the analog outputs



Figure 5. Headphone volume controller

### ② AUX\_IN (4Pin MPC2):

- Pin 1 Left (white cable)
- Pin 2 Ground (black cable)
- Pin 3 Ground (black cable)
- Pin 4 Right (red cable)

### ③ CD\_IN (4Pin MPC2):

- Pin 1 Left (white cable)
- Pin 2 Ground (black cable)
- Pin 3 Ground (black cable)
- Pin 4 Right (red cable)
- **Quanties Coaxial or CD S/PDIF input (2Pin digital IN)**: Connects to external digital device or the CD digital audio (16-bit/44.1kHz) output using a 2pin-RCA cable (optional) or CD S/PDIF cable (2pin-2pin S/PDIF digital cable)

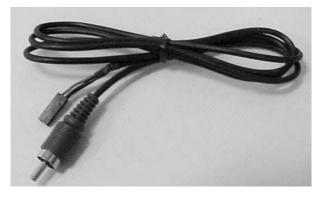


Figure 6. Optional 2pin-RCA cable

Note: Cable not included

⑤ MIDI\_IO (MIDI Port Bracket 16Pin Header): Connects to the MIDI Port bracket for MIDI devices such as master keyboard and synthesizer. An optional MIDI port bracket (sold separately) is available.

Note: Cable not included

### 3.2 STRIKER 7.1 Software

Please disable any existing PCI or onboard sound/audio devices (may need to disable in BIOS) and remove the associated software and drivers before installing "STRIKER 7.1" to avoid potential device and/or driver conflicts. Drivers and applications can be removed through the "Add or Remove Programs" menu in Windows Control Panel.

### (1) Installing the drivers and software

① Turn on PC. Windows will automatically detect **new hardware-Multimedia Audio Controller** and prompt the **Found New Hardware Wizard.** Click the **Cancel** button to end this process.





Figure 7. Found New Hardware Wizard

② Insert installation CD into the CD/DVD drive. Installation CD will launch automatically only if the Auto-Insert Notification option is enabled for your CD/DVD drive. If the installation menu does not appear after inserting the installation CD into your CD/DVD drive, browse to the drive letter that contains the installation CD and double-click on the CD/DVD drive icon to explore it. Search for and run "SETUP.EXE" and proceed to the next step.

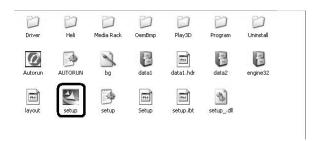
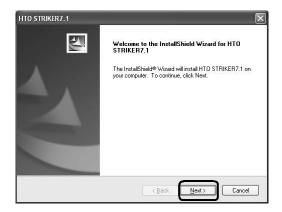
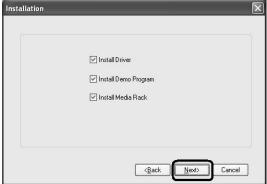


Figure 8. Installation CD

③ When the "STRIKER 7.1" installation menu appears, select "**Next**". Follow the instructions that appear during the installation selecting the options that best match your audio setup.





**Figure 9. Driver Installation** 

- ④ If the Windows Logo Testing Error dialog box appears explaining that the software has not passed Windows Logo testing or does not have a Digital Signature, you must select "Continue Anyway" or "Yes" (depending on the operating system) to proceed.
- ⑤ When prompted, reboot the system. Wait a few minutes for the installation to complete. The wait time will vary depending on the speed of your PC. Please wait for the system to reboot to properly complete the installation.

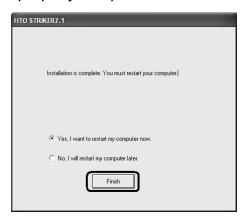


Figure 10. Restart computer Window

### (4) TO UNINSTALL "STRIKER7.1" drivers and soft wares

- ① Open the Windows Control Panel (Start => Settings => Control Panel).
- ② Open the Add/Remove Programs applet. Select "HTO STRIKER7.1" and click on the "Change/Remove" button to the lower right of the screen.

OR

To remove only the drivers, browse to the drive letter that contains the installation CD, double-click on the CD/DVD drive icon to open it and search for the \Driver\PCI folder. Run "CmRmDrv3.EXE" to begin driver uninstall.

③ To complete the uninstall process, Windows needs to be restarted. Select **Yes**, **I** want restart my computer now then press **Finish**.

## 3.3 Connection and Speaker Setup

### (1) Connection

① Connecting 7.1 Channel Speakers

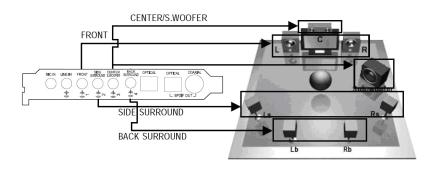


Figure 11. 7.1ch Speakers connect

2 Connecting 5.1 Channel Speakers

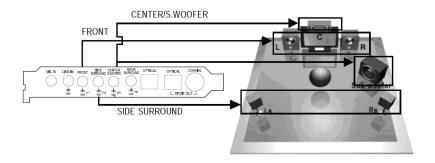


Figure 12. 5.1ch Speakers connect

3 Connecting 4 Channel Speakers

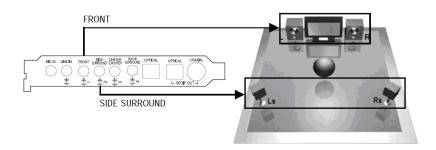


Figure 13. 4ch Speakers connect

### 4 Connecting 2 Channel Speakers

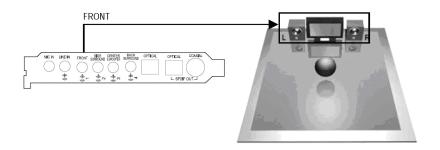


Figure 14. 2ch Speakers connect

**5** Connecting Headphone

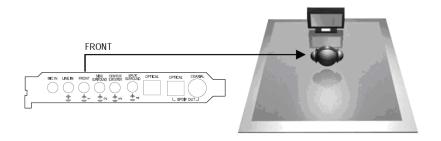


Figure 15. Headphone connect

6 Connecting Microphone and External Analog Devices

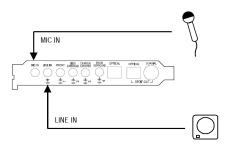


Figure 16. Microphone and Line in setup

? Connecting External Digital Devices

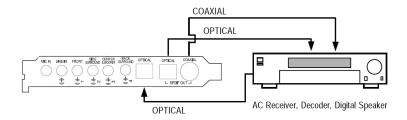


Figure 17. Link to external decoder or digital AV receiver

#### (2) Speaker Setup for 5.1, 7.1 Speakers

After connecting your speakers, consider placing your 7.1 or 5.1 speakers as illustrated below to achieve optimal surround sound. Dolby Digital Surround EX and DTS-ES soundtracks are recorded for additional back surround speakers behind the listener.

The Dolby website provides additional speaker position setups with detailed instructions.

### **1** 5.1 Setup

This system has six channels: five full-range channels and a low-frequency effects channel (the .1 in 5.1, usually a subwoofer). Many DVDs and digital broadcasts feature a Dolby® Digital (5.1) soundtrack, so this setup will give you optimum sound for most programming. It also most closely approximates the sound of cinemas.

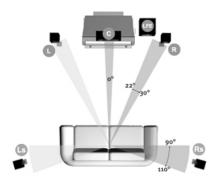


Figure 18. 5.1ch speaker setup

#### **②** 6.1 or 7.1 Setup

The most advanced home theater systems feature six (with Center Back) or seven (with Left Back/Right Back) full-range channels that allow listeners to take full advantage of Dolby® Digital EX soundtracks and Dolby® Pro Logic IIx matrix-surround decoding technology. Both of these processes add surround information for greater realism and more dramatic effects.

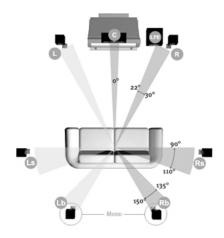


Figure 19. 7.1ch speaker setup

### 3 Speaker Setup for Dolby® Digital Live Encoder

STRIKER 7.1 provides Dolby® Digital Live Real-Time Content Encoder through the new CMI8770 chip which generates the Dolby® Digital audio stream from any digital PC sound source (3D Games, WMA, DVD, MP3, CD, Wave, streaming audio, etc.) to maximize the potential of your home theater system. Simply connect your PC to an external Dolby ® Digital decoder/AV receiver with either a S/PDIF optical cable (included) or coaxial cable as shown in the figure below.

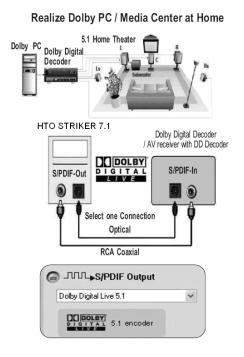


Figure 20. Dolby Digital Decoder setup

### **4** Speaker Setup for DTS INTERACTIVE Encoder

DTS INTERACTIVE real-time encoder that takes any LPCM (2 channel or more) and encodes it into DTS® bit stream(48kHz at 1.5Mbps). DTS INTERACTIVE provides a single cable connection (via coaxial or optical) to your DTS enabled surround sound system. Your stereo or multi-channel (up to 5.1) audio sources are re-encoded into a DTS audio signal and sent out from the STRIKER 7.1 to any DTS enabled system such as, powered PC speakers, an A/V receiver or any other DTS-compatible surround decoder sound system.

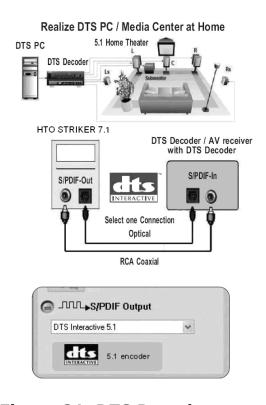


Figure 21. DTS Decoder setup

## 4. Using Audio Driver

### 4.1 3D Audio Configuration

**3D Audio Configuration** is C-Media's 3D audio control panel that allows the user to manage all audio configurations. After finishing the installation of the driver and rebooting the system, the audio control panel will be available through two locations:

1).Left-Click the icon in the system tray in the right-bottom of your screen. You can also click right button the icon to access the audio-related menu.



Figure 22. PCI 3D Audio Configuration

Double-click "CMI Audio Config" icon in Windows "Control Panel".(Start=>Setting=>Control Panel)



Figure 23. PCI 3D Audio Configuration on Control Panel

### 4.2 Main Setting

### (1) Using Analog Output or Digital S/PDIF-Out

Step 1: Turn on Analog Output and select Speaker Type or turn on Digital S/PDIF Output

Step 2: Run the Speaker Test/3D Sound/Multi-channel Music Demo if you wish.

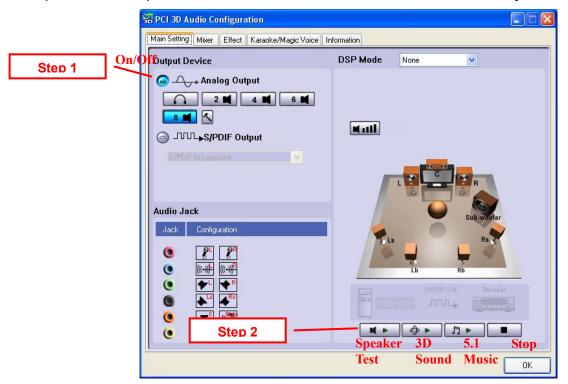


Figure 24. PCI 3D Audio Configuration Main Setting

### (2) Using Dolby® Digital Live Real-Time Encoder (DDL) or DTS Interactive

Step 1: Connect the S/PDIF-Out to the external digital speaker or AV receiver using either the optical fiber or RCA coaxial cable.



Figure 25. S/PDIF Output to DDL or DTS Interactive

Step 2: Select Dolby Digital 5.1 Encoding if you have the option to enable high-quality Dolby Digital audio stream output or DTS Interactive 5.1 for DTS audio stream output.

NOTE: When Dolby Digital Live or DTS Interactive is enabled the analog outputs will be turned off automatically to prevent interference.

### (3) Using Xear 3D<sup>™</sup> -7.1 Virtual Speaker Shifter

- Step 1: Select Xear 3D in DSP Mode
- Step 2: Click the "7.1 Virtual Speaker Shifter" button.
- Step 3: Each virtual speaker represents the specified channel sound. You can move each virtual speaker to any location to optimize the sound field of any active application. The location of the virtual listener can be adjusted as well.
- Step 4: You can reset the placement, manual shifting, group-rotate, auto-rotate and increase/decrease the volume of the virtual speakers

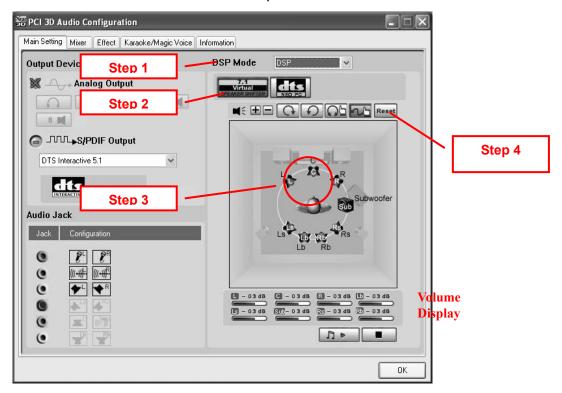


Figure 26. Xear3D 7.1 Virtual Speaker Shifter

### (4) Using DTS NEO:PC Upmix Matrix Decoder

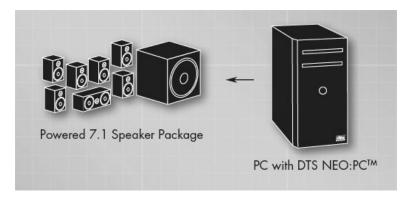


Figure 27. DTS NEO:PC Diagram

Step 1: Connect the Max 7.1 Channel analog output to a powered 7.1 speaker package.

Step 2: DTS NEO:PC provides two listening modes: DTS NEO:PC - Music mode and DTS NEO:PC Cinema mode. Select DTS NEO:PC Music mode for MP3's and other music files or DTS NEO:PC Cinema mode to enhance movie soundtracks.

**DTS NEO:PC Music mode**: This mode is mainly suited for playing stereo music. It allows you to control the separation or concentration of the music's vocals by adjusting the center gain. Center gain adjusts the balance of the main vocals in the center and front channels in music mode.

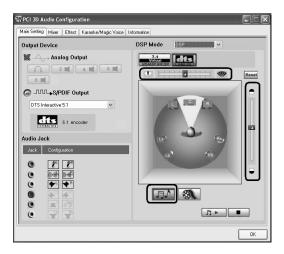


Figure 28. DTS NEO:PC Music Mode

**DTS NEO:PC Cinema mode**: This mode is optimal for playing matrix surround motion picture soundtracks. Adjustments can be made to enhance PC audio to reproduce the sound effects and dramatic impact heard in movie theaters.

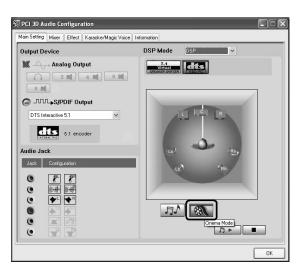


Figure 29. DTS NEO:PC Cinema Mode

### 4.3 Mixer/Volume

### (1) Playback Volume

- Step 1: Check that the playback devices/sources you want are turned on (button should be blue). If there are any other active connections, turning them off in 3D Audio Configuration or muting them may improve sound quality.
- Step 2: General volume can be adjusted with the "Master Volume Control" knob to change the volume level for all sources.
- Step 3: If you want to change the volume for a specific device/source individually, adjust the corresponding scroll bar.

### (2) Recording Gain

- Step 4: Select a recording source. "Line In" has been selected in the picture below.
- Step 5: If you want to change the volume for a specific device/source individually, adjust the corresponding scroll bar. In general, the slider should not need to be set higher than half of the scroll bar as the signal can be scaled too much and cause distortion.

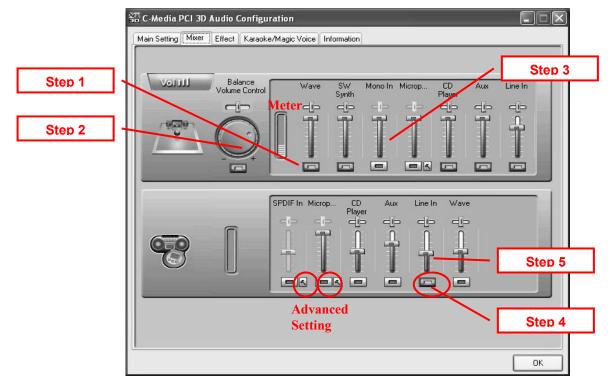


Figure 30. Mixer

### (3) Advanced Settings

### 1. Microphone Setting

Step 1: You can click the checkbox to mute the microphone which is on by default.

Step 2: If you feel that the mic volume is too low there is an option to boost +20dB. Check the "Boost" box to enable it. Keep in mind that background noise will also increase.

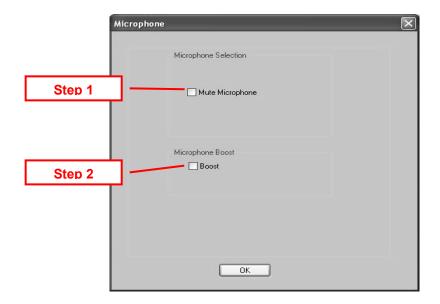


Figure 31. Microphone Advanced Setting

NOTE: The STRIKER 7.1 uses a highly sensitive microphone preamp. To avoid damage to your speakers, do not use maximum volume level when plugging in a microphone. We recommend that volume be set at half or less. Volume level can be safely adjusted once the microphone has been connected.

### 2. S/PDIF-IN Setting

- Step 1: Select the connection type: Coaxial (S/PDIF-IN #1) or Optical (S/PDIF-IN #2).
- Step 2: The format of some S/PDIF signal sources may be inverse and can cause a high-pitched buzz sound. Check "Reverse S/PDIF-in Format" to resolve this issue.
- Step 3: "Validity Check" will resolve any possible issues related to non-PCM audio sources by forcing compliance with the standard PCM format.

Step 4: S/PDIF-In recording can be monitored through analog speakers. Rarely, this can cause issues with normal playback functions. Leaving the box unchecked will solve this issue.

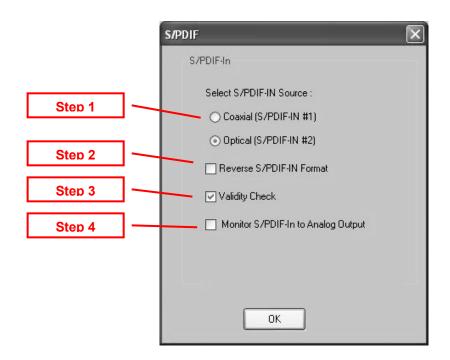


Figure 32. S/PDIF Input Advanced Setting

### 4.4 Sound Effects

### (1) Environment Emulation

- Step 1: Select an "Environment" effect to emulate multiple environments.
- Step 2: "Environment Size" can be adjusted from large to small (default setting is medium). Changing the size will alter the virtual space in which the sound is reproduced.

### (2) 10-Band Equalizer

- Step 3: There are 12 preset modes such as Bass, Treble, Live, Rock, Jazz, etc.
- Step 4: Custom equalizer settings can be saved. Enter a name into the blank space and click "+" to add your personal setting into the "User Defined" list. Click "-" to delete the currently selected user defined setting from the list.

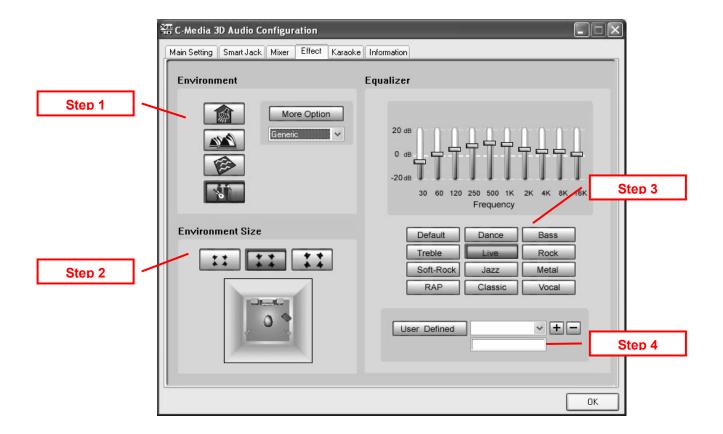


Figure 33. Effect Setting

## 4.5 Magic Voice<sup>™</sup> and Karaoke

- Step 1: Click "On" to turn on the Karaoke function (button should be blue).
- Step 2: "Microphone Echo" will add an echo effect. The volume and amount of echo can be adjusted according to user's preference. Magic Voice<sup>TM</sup> is a special effects tool that will change the sound of your voice. To use it, select Magic Voice from the pull-down menu and choose one of the five effects buttons. The special effects can be used when talking to other people over the network, such as messenger applications, VOIP and online games. Because these two features require real-time microphone recording, you should suspend other recording applications while using Microphone Echo or Magic Voice.
- Step 3: You can enable Key-Shifting for the Karaoke VCD or the music to suit your voice pitch. The range is adjustable from -4b to +4#.
- Step 4: If the music source includes the original vocals, you may try the "Vocal Cancellation" function to cancel it (0~100). The success of the effect depends on the recording method used to create the audio source. Karaoke VCD or CD, typically do not include vocals and should not require "Vocal Cancellation."

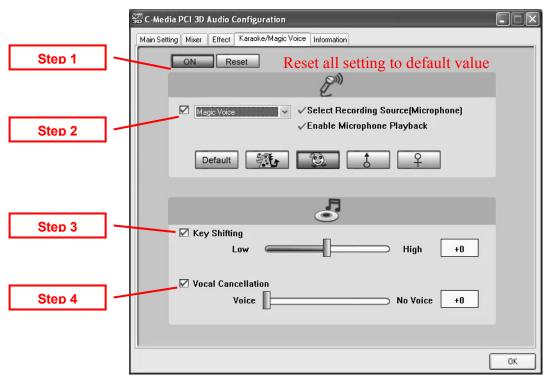


Figure 34. Karaoke/ Magic Voice Setting

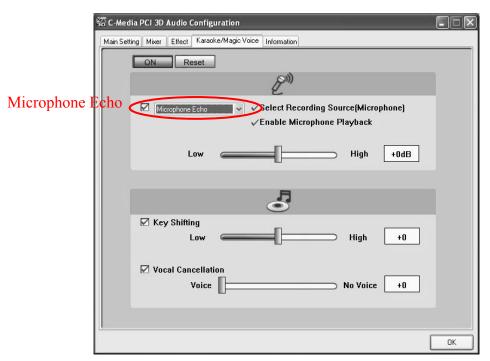


Figure 35. Microhone Echo Setting

### 4.6 Look for Information

The Information tab displays details about the Striker7.1's audio-related properties including the audio chip, driver version, 3D Audio Engine, Microsoft DirectX Version, and 3D Audio Configuration Version. The Audio Configuration icon can be shown in the system tray by checking the box.

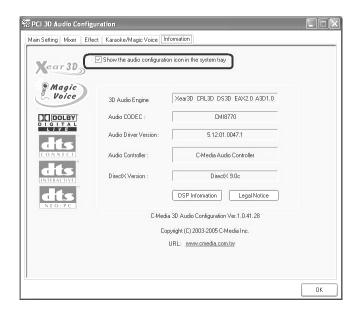


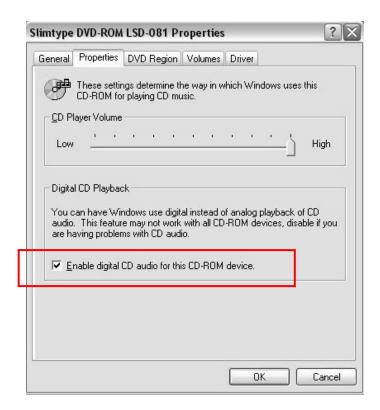
Figure 36.Driver Information

## 5. FAQ & Troubleshooting

### Q1: Why don't I hear sound while playing CD?

This issue most often occurs when Windows is set to analog CD mode and the CD cable from the back panel of the CD-ROM drive to CD-In header on the sound card is not connected.

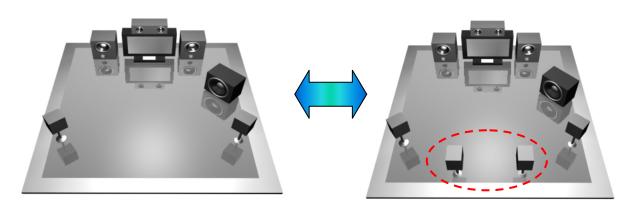
Please open "Device Manager" and select "DVD/CD ROM drives". Then switch to the "properties" tab and enable digital CD audio. Windows XP default setting is digital CD enabled.



Also, make sure that digital playback mode is enabled in the Windows Media Player settings. This option can be viewed and/or changed by going to [Tools=>Options=>Devices=>DVD-ROM or CD-ROM] in the Media Player.

# Q2: What is a 7.1CH listening environment and how is it different from 5.1CH?

- 1. The 7.1 channel mode is the latest multi-channel audio format and technology on the market. It includes center, subwoofer, front left, front right, left surround, right surround, left back surround, and right back surround according to Dolby Digital and DTS ES standards.
- 2. The 7.1CH content is referred to as Dolby Digital EX by Dolby Lab and DTS-ES (Extended Surround) by DTS.
- 3. The difference between 5.1CH and 7.1CH is the addition of 2CH. The two extra speakers were placed in the rear side(s) to enhance the immersive experience of surround sound.



5.1CH Environment

7.1CH Environment

## 7. Support / Contact

HT OMEGA offers various resources to provide customer support. Please visit our website <a href="http://www.htomega.com">http://www.htomega.com</a> to access our customer service section. The latest FAQ's, drivers, product documentation and applications can be found on the website, along with any new product development and information.

Thank you for choosing an HT OMEGA product. We look forward to providing you with the highest quality products and service.



**NOTE:** 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 manufacturer's instructions, may cause harmful interference to radio communications. However, there is no 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 to correct the interference by one or more of the following measures:

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

**CAUTION**: Changes or modifications not expressly approved by the manufacturer responsible for compliance could void the user's authority to operate the equipment.



#### LIMITED WARRANTY

HT OMEGA, Inc. warrants to the original purchaser only that the hardware product will be free of defects in materials and workmanship for a period of twelve (12) months from the date of purchase. HT OMEGA, Inc. will, at its sole discretion, repair or replace the product if it is found to be defective. This warranty does not cover a product failure that is the result of misuse, abuse, modification, misapplication, or normal wear and tear. No claim is made for merchantability or fitness for any purpose. In no event will HT OMEGA, Inc. be liable for any direct, indirect, consequential, or incidental damages arising out of the use of this product. In no event will HT OMEGA's liability exceed the purchase price you paid for the product.

The purchaser must contact HT OMEGA, Inc or its regional representative to receive prior approval before returning a faulty unit. All such returns must be shipped to HT OMEGA, Inc in the original packaging including all accessories (documents, cables, software, etc.) along with the original sales receipt. Any costs associated with the return/shipping/insuring the package are the sole responsibility of the end-user. Shipments without freight prepaid will not be accepted. If the returned product is deemed to be defective, the repaired or replacement product will be returned at no extra charge via the carrier chosen by HT OMEGA, Inc.