

Asus Xonar D2X User Manual

Masterpiece audio card for home theater & gaming in your pci express slot

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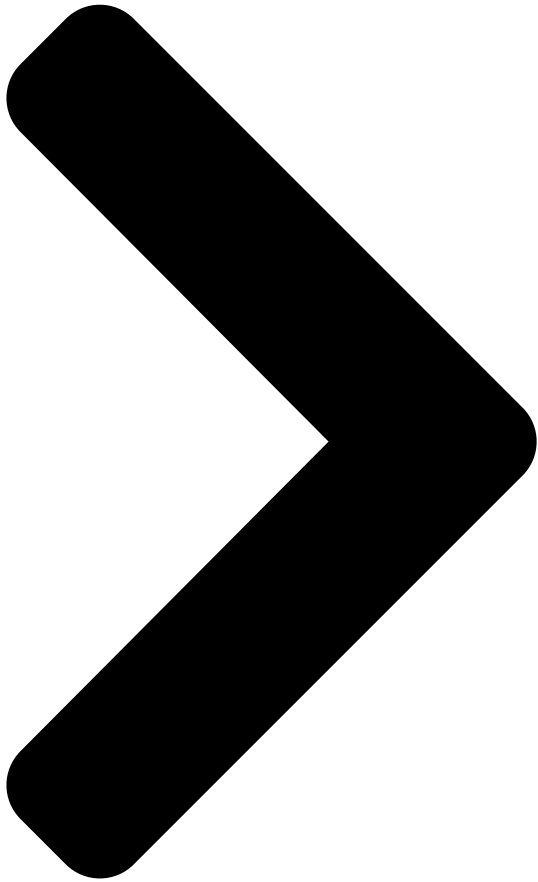
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Bookmarks

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Xonar D2X
ASUS[®]
Audio Card

User's manual

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(20 pages)

[Sound Card Asus XONAR D2X - Sound Card - 192 kHz Quick Installation Manual](#)

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7.1 pcie audio card (53 pages)

[Sound Card Asus Xonar U3 User Manual](#)

Mobile headphone amp usb soundcard (38 pages)

Summary of Contents for Asus Xonar D2X

[Page 1](#) Xonar D2X Audio Card User's manual...

[Page 2](#) Product warranty or service will not be extended if: (1) the product is repaired, modified or altered, unless such repair, modification of alteration is authorized in writing by

ASUS; or (2) the serial number of the product is defaced or missing.

[Page 3: Table Of Contents](#)

Package Contents ... 1 System Requirements ... 1 Specifications summary ... 2 About Hardware ... 5 Xonar D2X Audio Processing Card ... 5 MIDI Board/Cable ... 7 Installing the Xonar Hardware ... 8 Preparing Your Computer ... 8 Installing the Audio Processing Card ... 9 Installing the MIDI board ...

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[Page 5: Notices](#)

Notices Federal Communications Commission Statement This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: • This device may not cause harmful interference, and • This device must accept any interference received including interference that may cause undesired operation.

[Page 6: Safety Information](#)

Trademarks Xonar and ASUS logo are trademarks of ASUSTek Computer Inc. “Dolby” and “Dolby Digital Live”, “Dolby Pro Logic IIx”, “Dolby Virtual Speaker”, “Dolby Headphone” are trademarks of Dolby Laboratories. “DTS” and “DTS CONNECT”, “DTS Interactive”, “DTS Neo: PC”...

[Page 7: Introduction](#)

Introduction Package Contents • ASUS Xonar D2X audio card • ASUS Xonar D2X support CD (including Portable Music Processor™ utility) • Ableton™ Live software CD • Cakewalk™ Production Plus Pack CD (Sonar LE, Dimension LE, and Project5 LE) • PowerDVD 7.0 software DVD player CD •...

[Page 8: Specifications Summary](#)

-Max. full 2.5Gbps bandwidth per direction and optimized latency for high-definition audio processing -Compatible with X1, X4, X8, X16 PCI Express slots ASUS AV200 High-Definition Sound Processor (Max. 192KHz/24bit) TI Burr-Brown PCM1796 *4 (123dB SNR, Max. 192kHz/24bit) Cirrus-Logic CS5381* 1 (120dB SNR, Max.

[Page 9](#) 1.0, OpenAL generic modes, 128 3D sounds processing capability ® XP: EAX 2.0&1.0, DirectSound DirectSound SW, A3D modes, 128 3D sounds processing capability (continued on the next page) ASUS Xonar D2X ® Virtual Speaker, Dolby ® Digital Live ® ® GX 1.0, EAX 2.0&1.0,...

[Page 10](#) Dolby Virtual Speaker (w/ Pro-Logic II), and Smart Volume Normalization processing (Windows Media Player 10 or above is required) Ableton Live; Cakewalk Production Plus Pack (SONAR LE, Dimension LE, and Project5 LE) Software DVD player with Dolby Digital 5.1 decoder ASUS Xonar D2X...

[Page 11: About Hardware](#)

About Hardware Xonar D2X Audio Processing Card LED color definition Blue Green Orange White Amber No LED No LED ASUS Xonar D2X MIC In Line In Front Out Side Surround Center & Subwoofer Back Surround SPDIF In SPDIF Out...

[Page 12](#) Audio Center software’s recording mixer.) Connects to the additional MIDI board/bracket (available in the package) ASUS Xonar AV200 Audio Processing Unit (DuplexHD 192K/24bit) Connects to the PCI slot on your motherboard Connects to the power cable of your power supply...

[Page 13: Midi Board/Cable](#)

5-pin DIN MIDI input/ output connectors (Female) Description Connects to the MIDI I/O header

on the main Xonar D2X audio card Connects to the 6-pin mini-DIN connector of the MIDI Y cable (adaptor to 5-pin DIN standard MIDI I/O connectors)

[Page 14: Installing The Xonar Hardware](#)

MIDI board in the package). Installing the Audio Processing Card Face the bracket of the Xonar D2X audio card toward the back panel of your computer and insert the audio card gently into an available PCI Express slot.

[Page 15: Installing The Audio Processing Card](#)

If the power cable is not connected properly, the audio card will not work at all. When removing the power cable from the Xonar D2X audio card, make sure to pull outward the 4-pin header first, then unplug it from the power connector as the following pictures show.

[Page 16: Installing The Midi Board](#)

CD playback on Windows. Connect the CD-IN 4-pin header to the analog output on the back of your CD/DVD-ROM drive with the audio CD cable which is usually included with CD/DVD-ROM drive. ASUS Xonar D2X...

[Page 17: Connecting Tv Tuner Card](#)

Using this setup, you can even turn on sound effects such as Pro-Logic IIx to expand the stereo TV audio to 5.1 or 7.1 channel surround sound. TV audio on your PC will become even better than on your TV set! ASUS Xonar D2X...

[Page 18: Installing Software](#)

"END USER LICENCE AGREEMENT" in the process and make sure you understand and accept it before you continue the installation. When the installation finishes, you may be prompted to restart your computer. You can choose to restart the computer later if desired. ASUS Xonar D2X...

[Page 19: Installing The Pmp Software \(Portable Music Processor\)](#)

Installing the PMP software (Portable Music Processor) From the installation CD menu, select the option to install the PMP software. Follow the instructions on the screen to complete the installation. After the installation is complete, click Finish. ASUS Xonar D2X...

[Page 20: Installing The Ableton Live](#)

Follow the instructions on the screen to complete the installation. Please read the "END USER LICENCE AGREEMENT" and make sure you understand and accept it before you continue the installation. After the installation is complete, click Finish. ASUS Xonar D2X...

[Page 21: Installing The Cakewalk Production Plus Pack](#)

You may be prompted to select the language, installed components, and associated file types, and to run the VST Adapter Configuration Wizard. After the installation is complete, click "Finish". ASUS Xonar D2X...

[Page 22](#) Follow the instructions on the screen to complete the installation. Please read the "SOFTWARE LICENCE AGREEMENT" and make sure you understand and accept it before you continue the installation. You may be prompted to select the language and installed components. After the installation is complete, click "Finish". ASUS Xonar D2X...

[Page 23: Uninstalling Or Reinstalling Software](#)

Uninstalling Software Click Start -> Settings -> Control Panel. Double-click the "Add/Remove Programs" icon. Click the "Change or Remove Programs" button. Select each program you would like to remove, and then click the "Add/ Remove (or Change/Remove)" button. ASUS Xonar D2X...

[Page 24](#) 4.5.2 Reinstalling Software Before you reinstall any software, it's recommended to uninstall the existing software first. After you finish the uninstallation of the software, please follow the installation process again to reinstall the same or updated software. ASUS Xonar D2X...

[Page 25: Connecting Speakers And Peripherals](#)

Connecting Speakers and Peripherals Connecting Digital Speaker Systems (Home Theater) The Xonar D2X supports Dolby Digital Live and DTS Interactive technologies, which transcode any audio, including games and music, into industry-standard Dolby Digital or DTS 5.1 surround bit-streams. This makes playback through your home theater system possible, creating an immersive and impressive cinema surround sound experience.

[Page 26: Connecting Headphones](#)

Connecting Headphones 5.2.1 Connecting Stereo Headphones Item Front Out/Headphone Jack Description The Front Out jack has a built-in high-quality amplifier to drive headphones. Please connect your stereo headphones directly to this jack. ASUS Xonar D2X...

[Page 27](#) Description Connect the front-channel 3.5mm plug of your 5.1 headphones into this jack. Connect the surround-channel 3.5mm plug of your 5.1 headphone into this jack. Connect the Center/Bass-channel 3.5mm plug of your 5.1 headphone into this jack. ASUS Xonar D2X...

[Page 28: Connecting Analog Speaker Systems](#)

Connects to the "Center" and "subwoofer" input ports of the analog amplifier with the mini-jack to RCA cable. Connects to the "left back" and "right back" input ports of the analog amplifier with the mini-jack to RCA cable. ASUS Xonar D2X...

[Page 29](#) 5.3.2 Connecting 2/2.1 Channel Speakers 2 Speakers 2.1 Speakers Item Front Out/Headphone Jack Description Connect the 2/2.1 speaker set's 3.5mm plug into this Front Out jack. ASUS Xonar D2X...

[Page 30](#) 4.1 Speakers Item Front Out Side Surround Out Description Connects to the Front input port of the 4/4.1 speakers with the mini-jack cable. Connects to the Surround input port of the 4/4.1 speakers with the mini-jack cable. ASUS Xonar D2X...

[Page 31](#) Connects to the Front input port of the 5.1 speakers with the mini-jack cable. Connects to the Surround input port of the 5.1 speakers with the mini-jack cable. Connects to the Center/Subwoofer input port of the 5.1 speakers with the mini-jack cable.. ASUS Xonar D2X...

[Page 32](#) Connects to the Surround input port of the 6.1/7.1 speakers with the mini-jack cable. Connects to the Center/Subwoofer input port of the 6.1/7.1 speakers with the mini-jack cable. Connects to the Back Surround input port of the 6.1/7.1 speakers with the mini-jack cable. ASUS Xonar D2X...

[Page 33: Connecting Microphone](#)

Connect the 3.5mm plug of the CD/MP3 Player or any other Line level analog audio sources into this Line-In jack for sound recording or real-time Dolby/DTS sound processing through the Monitoring path (See the "Mixer" section of the driver guide). ASUS Xonar D2X...

[Page 34: Connecting Digital Audio Sources](#)

RCA male connector to the S/PDIF-In combo jack and connect the other end into the coaxial S/PDIF output on the player. Description Plug the optical TOSLINK adaptor into the S/PDIF-In combo connector Connect your MD/CD/DVD player's S/PDIF out port to the optical adaptor with the TOSLINK optical cable ASUS Xonar D2X...

[Page 35: Xonar D2X Driver Guide](#)

Introduction to the Xonar D2X Audio Center GUI After the driver installation is complete and your computer has been rebooted, you will find the Xonar D2X Audio Center's icon in the system tray on the bottom right-hand corner of the screen. Double click this icon to open the Xonar Audio Center utility.

[Page 36](#) These 4 buttons give access to quick sound effects combinations for Music, Games, DVD Video, and effect-free (Hi-Fi) modes. These 4 buttons give quick access to ASUS PMP, PowerDVD, Sonar 6 LE, and Ableton Live. This panel gives access to setting tabs, including Main Settings, Mixer/volume, Effects, Karaoke/MagicVoice, and FlexBass.

[Page 37: Main Setting](#)

The Sample rate determines the number of audio samples per second that the Digital-to-Analog Converters (DAC) and S/PDIF digital interface will output. The Xonar D2X audio card can support sample rates up to 192KHz (44.1K, 48K, 96K, 192KHz). Usually audio CDs and MP3 files are 44.1KHz; DVD-Video uses 48KHz;...

[Page 38](#) The Analog Out setting is used to match your actual speaker setting, such as headphones, 2 speakers (or 2.1), 4 speakers (or 4.1), 5.1 speakers, and 7.1 speakers. Xonar D2X will play the channels and do the proper 3D/Dolby/DTS sound processing accordingly.

[Page 39](#) 6.2.3 SPDIF Out/DDL/DTS Interactive Xonar D2X is capable of outputting Dolby Digital Live and DTS Interactive, which are real-time encoders that transcode any audio, including games and music, into industry-standard Dolby Digital or DTS 5.1 bit-streams on-the-fly. This is ideal for playback through a home theater system, creating an immersive and impressive cinema surround sound experience.

[Page 40](#) Here are some typical suggestions: -MP3, WMA, AAC, CD, VCD, 2D games => 2 channels -DVD-Video with Dolby Digital or DTS 5.1 => 6 channels -DVD-Video with Dolby Digital EX or DTS ES => 8 channels -3D games => 8 channels ASUS Xonar D2X...

[Page 41](#) Speaker Shifter page for manual adjustments. You can drag each speaker or listener to a different relative position “virtually” using only your mouse. The Xonar D2X audio card will process it and virtualize each speaker position in real-time. The Subwoofer has no directional sounds, and hence can be moved only closer or further away.

[Page 42](#) Drag to the right side to widen the vocal sound range. The dimension parameter fades sounds to the front or rear of the listener. Reset all settings to the defaults. Movie mode is a preset optimized for movie audio. ASUS Xonar D2X...

[Page 43](#) Drag to the right side to widen the vocal sound range. The dimension parameter fades sounds to the front or rear of the listener. Reset all settings to the defaults. Movie mode is optimized for movie audio. ASUS Xonar D2X...

[Page 44](#) They differ in the sense of the “spatial dimension” they impart. DH1—Reference Room: Small, acoustically damped room. DH2—Livelier Room: More acoustically live than DH1 DH3—Larger Room: Larger room than DH1; more distant and diffused effect. ASUS Xonar D2X...

[Page 45: Dolby Virtual Speaker](#)

Dolby Virtual Speaker provides two modes of virtualization: The first is Reference mode, which virtualizes the missing speakers as in the following picture. Wide mode virtualizes the necessary speakers and enhances the surround experience as in the following picture. ASUS Xonar D2X...

[Page 46: Mixer/Volume](#)

The mixer page is designed to control the volume for playback and recording on the Xonar D2X. In addition, the Xonar D2X also provides a high-quality digital monitoring function for hearing the recorded audio from the speakers. You can also process the input signals with all playback sound effects such as Dolby and DTS technologies.

[Page 47](#) A typical benefit is to apply Dolby Pro-Logic IIx 7.1-ch spreading for your TV audio, CD, MP3, or stereo game console audio from Wii, Xbox, PS2/PS3/PSP, etc. To apply Dolby Virtual Speaker is suitable for two-speaker environment. ASUS Xonar D2X...

[Page 48](#) Click this button to open the advanced settings for the Microphone-In: Enabling “Microphone Boost” will increase a volume gain to boost microphone input signals. For typical low-cost PC it’s recommended to enable this function. microphone, ASUS Xonar D2X...

[Page 49: Effects](#)

Clicking this button will apply the environment effect that you select from the pull-down menu on the right side. There are another 23 options in this menu. There are three size settings for each environment: Large, Medium, and Small. ASUS Xonar D2X...

[Page 50](#) Adjust the gain for each band (30~16KHz) Key in a name for your own “User

Defined" equalizer setting Click this + button to save the parameters into User Defined list Click this - button to delete the parameters from User Defined list ASUS Xonar D2X...

[Page 51: Karaoke/Magic Voice](#)

Karaoke/Magic Voice The Xonar D2X provides powerful features for VOIP and Karaoke, including Magic Voice, Microphone Echo, Key-Shifting, and Vocal Cancellation. Magic Voice is a great feature for disguising your voice (using monster/cartoon/male/female effects) for VOIP and online gaming applications. Microphone Echo can generate natural echo effects on your singing voice just like a karaoke machine.

[Page 52: Flexbass](#)

Select the speaker type that you connected. If your speaker type cannot perform low-frequency signals (bass), please select "Small" speaker type and Xonar D2X will filter out the bass signals and send them to the subwoofer channel. If those speakers are full-range, you can select the "Large"...

[Page 53: Aec \(Acoustic Echo Cancellation\)](#)

AEC technology can eliminate up-to- 40dB speaker echo return and suppress noises into your microphone for easier conversation experience. AEC is an innovative feature to make Xonar D2X the best sound card choice for online chatting in VOIP applications (Skype, MSN, Google, QQ, etc.) or online gaming.

[Page 54: Smart Volume Normalization](#)

2 speakers and all sound effect processors will suspended except AEC function. Click "OK" to accept it; Click "Cancel" if you want to enable it later. Check "Don't remind me again" will not show this message again. ASUS Xonar D2X...

[Page 55](#) SVN Blue Light When SVN is enabled, the master volume knob will be illuminated by a blue light. It will be lit red if the volume is muted. SVN On ASUS Xonar D2X 0dB (Full-scale) -10 dB...

[Page 56: Ds3D Gx And Dsp Modes](#)

API. All existing games compatible with Microsoft DirectX and DirectSound 2D/3D will be supported with DS3D GX technology. Before you start EAX and DS3D HW games, please enable DS3D GX on the Xonar D2X audio center, and disable the function after the games.

[Page 57: Asio 2 Driver](#)

ASIO or ASIO2 output. ASIO can ensure lower latency during playback and recording on PCs, which is very important for professional music creation and editing. The Xonar D2X package also provides Ableton Live and Sonar LE audio editing software, which all support ASIO output. The setup reference is described below.

[Page 58: When Using Sonar Le](#)

Step 2 is to select "ASIO" as the driver type. (WDM and MME are other Windows driver types) Step 3 is to choose "ASUS Xonar D2X ASIO" as the Audio Device. Step 4 is to click the Hardware Setup to configure the Bit- depth (16/24bit) and latency (1ms~300ms).

[Page 59](#) ASUS Xonar D2X...

[Page 60](#) After step 2, Sonar LE will display 4 output drivers: "ASUS Xonar D2X ASIO Out -00~06". Make sure you are using 00 or another one. After step 2, Sonar LE will display 1 input driver: "ASUS Xonar D2X ASIO In -00".

[Page 61: Portable Music Processor™ Software Guide](#)

Xonar D2X Audio Card has been installed in your PC. The Xonar D2X driver has been installed (Xonar D2X audio converter driver is installed for PMP utility) Windows Media Player Ver. 10 or above has been installed on your PC (If it hasn't, Xonar D2X installer will provide a guide to downloading WMP 10)

[Page 62](#) You will also need an MP3 encoder installed to encode music into MP3 format (If you don't have this already, the Xonar D2X installer will provide a guide message to download a free

MP3 encoder) After PMP is installed, you will find a PMP shortcut icon on the desktop. Double click the icon and PMP will show up as below.

[Page 63: Converting Music In "Main Setting" Page](#)

PMP. You can select all or click each check box to choose which file to be converted later. The files that have been converted during the process will show a check mark in the status column. ASUS Xonar D2X...

[Page 64](#) This display window will tell you the music being converted, file type, bitrate, spent time, converted percentage, and speed. Clicking the information button will display the version of PMP that you have installed. ASUS Xonar D2X...

[Page 65: Find Converted Music In "Pmp Music" Page](#)

PMP Music page Music Information Description This page shows the converted music library stored in the PMP Music folder. This window will display the song name and its artist, length, and size in the PMP Music folder. ASUS Xonar D2X...

[Page 66: Ableton Live Software Guide](#)

Ableton Live Software Guide Please refer to the separate manual for Ableton Live. Cakewalk Production Plus Pack Software Guide Please refer to the Help manual for these Cakewalk programs. ASUS Xonar D2X...

[Page 67: Rmaa Test Guide](#)

RMAA Test Guide The Xonar D2X driver CD includes RightMark Audio Analyzer (RMAA) v5.6, a popular software intended for testing the quality of audio equipment, be it a sound card, portable MP3 player, consumer CD/DVD player, or a speaker system. The measurements are conducted by playing and recording test signals, and using frequency analysis algorithms.

[Page 68](#) (0dB). This is actually a high-quality onboard loop-back path from the Line-out directly to the Line-In. This allows you to get realistic output and input quality ratings for the Xonar D2X audio card. You may also choose to use an external 3.5mm line cable as follows (as short as possible) to connect the Front-Out jack to the Line-In jack for loop-back testing.

[Page 69](#) Click "Reset" on the playback volume mixer page to keep the volume setting on default. Turn the master volume to the MAX level (0dB) ASUS Xonar D2X...

[Page 70: Configuration And Test With Rmaa](#)

Configuration and Test with RMAA Start RMAA and follow the setup procedure below. Select both of the playback/recording devices as "ASUS Xonar D2X Audio". Select 24bit and 48KHz for the test signals. (If you change the format here, please remember to go back to set the same sample rate output in the Xonar D2X Audio Center) Click "Test options"...

[Page 71](#) Go to the Sound Card tab and select "DirectSound" as the Driver Model (because Windows MME mode doesn't support high-resolution 24bit audio playback and the data may be manipulated by Windows so that the real hardware quality can not be measured properly.) Click loop-back mode test button ASUS Xonar D2X...

[Page 72](#) If the recording volume level is not high enough, please check and make the WAVE and Master Volume have been at the maximum level; Instead, if the recording volume level is too high, please lower the WAVE and Master volumes gradually until the level is ok. ASUS Xonar D2X...

[Page 73](#) Begin the test by clicking the "Done" button. If you cannot get the level to be "OK" after the previous step, click "Done" anyways and proceed. Enter "Xonar D2X Audio Card" in the New slot name and select one Empty slot. Then click "OK".

[Page 74](#) 10. RMAA will pop up the Test results window. You can click the "Select" checkbox and click to "Make html report". 11. Check and key in the report name/options as follows and then click "OK". ASUS Xonar D2X...

[Page 75: Rmaa Testing Results](#)

The following report is a sample and you can see how high-fidelity and crystal-clean the Xonar D2X audio card is for both output and input (one of the world's finest sound cards, it has higher quality than most CE devices.) You can also try testing the performance for other...

[Page 76: Rightmark Audio Analyzer Test](#)

Xonar D2X Audio Card RightMark Audio Analyzer test Testing chain: External loopback (line-out - line-in) Sampling mode: 24-bit, 48 kHz Frequency response (from 40 Hz to 15 kHz), dB: Noise level, dB (A): Dynamic range, dB (A): THD, %: IMD + Noise, %:...

[Page 77: Dynamic Range](#)

Noise level Parameter RMS power, dB: RMS power (A-weighted), dB: Peak level, dB FS: DC offset, %: Dynamic range ASUS Xonar D2X Left Right -115.2 -115.1 -116.5 -116.4 -92.6 -92.5 -0.00 -0.00...

[Page 78](#) DC offset, % Parameter THD, %: THD + Noise, %: THD + Noise (A-weighted), %: Left +115.1 +116.2 -0.00 THD + Noise (at -3 dB FS) Left 0.0004 0.0006 0.0007 ASUS Xonar D2X Right +115.1 +116.3 -0.00 Right 0.0006 0.0007 0.0009...

[Page 79](#) Intermodulation distortion Parameter IMD + Noise, %: IMD + Noise (A-weighted), %: Stereo crosstalk ASUS Xonar D2X Left Right +0.0011 +0.0011 +0.0005 +0.0005...

[Page 80](#) IMD + Noise at 5 KHz, IMD + Noise at 10 KHz, IMD + Noise at 15 KHz, Left -111 -115 -112 IMD (swept tones) Left 0.0006 0.0005 0.0005 ASUS Xonar D2X Right -111 -114 -112 Right 0.0006 0.0006 0.0006...

[Page 81: Troubleshooting And Faqs](#)

PMP.) PMP will also need an MP3 encoder installed to encode music into MP3 format (If you don't have it yet, the Xonar D2X installer will provide a guide message to download a free MP3 encoder) I couldn't find the Xonar D2X Audio Center...

[Page 82](#) PCI Express bus power. Please double check you have plugged the small 4-pin power plug onto Xonar D2X power connector. If you did not plug the internal power, Xonar D2X audio center will remind you a warning message and won't allow your operation when you double click Xonar D2X audio center icon in the system tray.

[Page 83](#) Instructions: Windows Vista doesn't show MPU-401 MIDI port on system. However, Xonar D2X did support MIDI I/O and you can directly use it to connect MIDI instruments on Vista without any setting. I found no sound effects when playing 96K or 192KHz sound sources.

[Page 84](#) Q1: Does the Xonar D2X support Windows Vista? Answer: Yes, the Xonar D2X driver package does support Windows Vista 32/64 bit and most key features are available. In addition, Xonar D2X supports unique DS3D GX 1.0 on Windows Vista, which can recover DirectSound 3D hardware and EAX gaming sound effects on Vista for a lot of existing DirectX games.

[Page 85](#) Q4: Does the Xonar D2X support EAX on Vista? Answer: Yes, Xonar D2X can support EAX2.0 not only on Windows XP but also on Vista through innovative DirectSound3D Game Extensions v1.0 (DS3D GX 1.0) technology. Q5: Why do I need Dolby and DTS for PC games?

[Page 86](#) For attaining 5.1 channel surround sounds, you can select Dolby Digital Live or DTS Interactive encoding output from the S/PDIF out menu, which will allow the Xonar D2X to deliver 5.1 surround sound for games, DVD movies, and even stereo music.

[Page 87](#) CD optical drive to Analog. Open the Windows Media Player and do the following to change the setting: Tools > Options > Device > CD Properties > Playback > Analog. ASUS Xonar D2X...

[Page 88](#) ASUS Xonar D2X...

