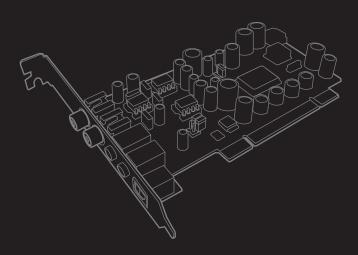


High-End 192 kHz Reference HiFi Audio Interface

User's Guide (English)





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This product is registered as electronic wave conformity device for home and all other places.



- 1. Name of Product(model name): PRODIGY HD2
- 2. Registration Number: GYR-PRODIGYHD2(B)
- 3. Registered Representative : GYROCOM C&C Co., LTD.
- 4. Manufacturer/Manufacture Country: GYROCOM C&C Co., LTD. /Korea

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Product Specifications and Recommended Requirements

2-1. Characteristics

- 24Bit / 192KHz, DR, s/n: AK4396, high performance DAC chipset having 120dB of premium quality is adopted pursuing ultimate HiFi sound by employing analog circuit design technique which ensures utmost quality.
- FDO(Full Differential Output) is generally adopted in the best HiFi Audio. FDO type Triple OPAMP circuit is perfectly realized, premium OPAMP and film condenser allows users to experience utmost tuned sound.
- PNK(PCI Noiser Killer) circuit, designed by Audio Track, perfectly shields noise inflow from inside the PC and PCI slot
- Individual headphone AMP (dual OPAMP) and dedicated terminal are adopted, and internal jumper(JP1) is inserted(ON) to secure driving power for 150~600ohm headphone. Headphone sound is outputted via AK4396 and Triple OPAMP with perfect HiFi sound quality. When Triple OPAMP is changed, tone is changed accordingly.
- Internal/external analog-in terminal for connecting with TV receiving card and etc., is completely separated from analog-out terminal not to affect analog output quality unless the analog input is used.
- Independent power supply and high-capacity premium condenser prevent Ripple of the power supply to inhibit any of quality loss.
- Anti-POP circuit shields unnecessary noise during power ON/OFF.
- High quality RCA cable (1.5M) and headphone extension cable (1.5M) are basically provided.

2-2 Product Introduction

Thank you for purchasing PRODIGY HD2 PRODIGY HD2, as the latest model of AUDIOTRAK PRODIGY series featuring the best sound quality, having utmost dynamic range of 102dB is unveiled after long planning and developing for those who pursue ultimate HiFi acoustic sound. High performance audio controller chipset of VIA Company supporting up to 24bit/192kHz and AK4396. 2 channel dedicated premium DAC chipset of AKM Company are adopted and stable circuit design is applied for the highest quality of sound FDO(Full Differential Output) is generally adopted in HiFi Audio, FDO type Triple OPAMP circuit structure is applied, All OPAMPs are designed exchangeable socket type for user to change sound tone in favor of sound taste for user. Optical terminal is mounted as default for digital output to enjoy perfect 5.1 channel during playback of AC3, DTS formatted 5.1 channel movies, and DVD with DVD or AC3/DTS movie player by using decoder embedded 5.1 channel home theater speaker or receiver AMP. Also, extra headphone terminal is supported with RCA output for users to easily use headphone Headphone AMP function is default for headphone output to perfectly use headphone for high impedance over 150ohm, Besides, additional analog-in terminal is supported for connecting TV receiving card.

High performance audio controller and premium DAC / highly stable motherboard / PNK circuit

High performance audio controller, adopted in dedicated recoding card, and 2 channel premium DAC chipset are adopted to realize stability and high quality sound. PNK(PCI Noise Killer) circuit and stable circuit are designed for completely shielding noise generated on motherboard to shield noise during operating with PC power source. Also, anti-pop circuit is adopted for minimizing pop-noise which can be generated during power ON/OFF of computer.

■ FDO(Full Differential Output) type Triple OPAMP structure

FDO(Full Differential Output) is generally adopted in HiFi Audio. FDO type Triple OPAMP circuit structure is applied for realizing whole band balanced sound so that the computer is used as professional audio device for enjoying music Also, applied OPAMP is an exchangeable socket type for user to change sound tone in favor of sound taste for user

■ Powerful headphone driver embedded 600ohm headphone support

Headphone terminal is supported as well as basic RCA-out terminal for user to easily use earphone and headphone. Powerful headphone driver is embedded for 600Ω headphone.

■ Up to 192kHz up-sampling support

Playback frequency of 44.1 kHz and 48kHz that MP3, audio CD, DVD, and various movie files have can be up-sampled up to 192kHz

3D sound acceleration feature

QSound Effect is supported in Windows 2000/XP/VISTA Enjoy EAX 1 0/2 0. Direct Sound 3D required game

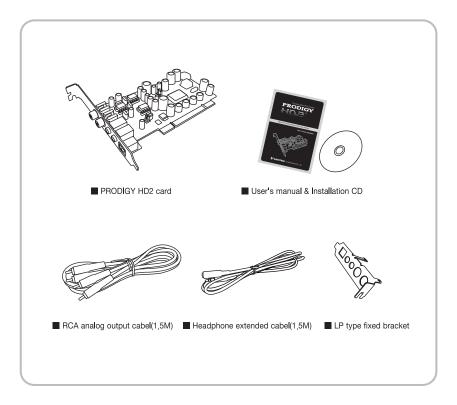
■ LowProfile type supported Slim PC and Barebone PC mountable

LP type PCB is designed to provide an extra bracket dedicated to LowProfile(Slim and Barebone PC) for Middle Tower or Slim PCs

■ Highly stable driver

Almost all operating systems such as Windows 2000, XP, 2003, Windows XP 64bit Edition and Windows Vista are supported, and VIA digital signed reference driver with high stability and compatibility is provided

2-3 Package Contents



2-4. Product Specifications

Feature	Description
Analog Output	2 Channel RCA(Left, Right) & Headphone Output(3.5mm Stereo mini jack)
Analog Input	LINE IN(External), AUX IN(Internal)
Card Type	Standard PCI, LP(LowProfile)
Headphone AMP	OdB as default, Amplification Mode applied by Jumper Enable with a headphone more than 150 Ohm.
Digital Output	Optical-Out Terminal
Supported Frequency	44 _. 1kHz, 48kHz, 96kHz, 192kHz
Operating System	Windows 2000, XP, 2003, Windows XP 64bit, Windows Vista 32bit/64bit compatible

2-5, System Requirements

System requirement is crucial to take full advantage of high quality sound and multimedia features provided by PRODIGY HD2. PRODIGY HD2 is basically designed to use minimum computer source, but you are strongly encouraged to meet recommended system requirement for maximum performance. High performance 2-channel stereo speaker is strongly recommended for enjoying high quality sound.

Minimum	Recommended
1. Intel Pentium III 1GHz CPU or higher or equivalent AMD CPU 2. Intel, VIA, NVIDIA, or AMD chipset motherboard 3. 256MB main memory 4. One vacant PCI slot 5. Microsoft Windows 2000/XP/2003/XP64 and Windows Vista 32/64 operating system 6. Hard disk supporting UDMA 66 or higher 7. CD-ROM 40X or higher 8. AMP-embedded 2 Channel Stereo Speaker	1. Intel Pentium4 2.0G CPU or higher or equivalent AMD CPU 2. Intel, NVIDIA chipset motherboard 3. 512MB or more main memory 4. One vacant PCI slot 5. Microsoft Windows XP operating system 6. Hard disk supporting UDMA 100/133 or S-ATA type hard disk 7. CD-ROM 40X or higher 8. Hi-fi AMP & speaker or AMP-embedded 2 channel(2.1channel)-dedicated stereo speaker

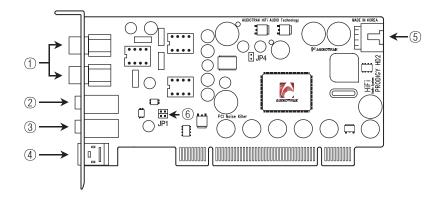
^{**} Very high system performance and highly featuring latest graphic card are required for playback of latest 3D game or high-definition formatted movies such as H.264.

2-6. Specification Details

Feature	Description
Line-Out	1) Socket Type Exchangeable FDO Triple OPAMP 2) Type : RCA Jack 3) Output Level and Attenuation : 10dBV(Maximum), 0,5dB Step Size 4) Impedance : 2000hm
Headphone Output	1) JRC4580 Dual OPAMP 2) Type : 3,5mm Mini Phone Jack 3) Maximum Output : 120mW 4) Output Gain 0 ~ 20dBV(maximum) 5) Gain Setting Jumper(JP1) : ON(up to 20dBV), OFF(up to 10dBV, default)
Analog Input	1) Type: Line-In (3,5mm Mini Phone Jack) / AUX-IN(4P, Internal) 2) Input Level: 0 ~ 6dBV Max 3) Impedance: 10K Ohm 4) Volume Control and Recoding: Not Supported
Digital Output	1) 24Bit/192KHz 2) Type : Optical-Out Terminal 3) Format : IEC-958Consumer(S/PDIF)
Sampling Rate	44.1, 48, 96, 192KHz
D/A Converter (AK4396)	1) Dynamic Range (S/N): 120dB A-Weighted (Typical) 2) Frequency Characteristic : 5Hz ~ 40KHz 3) Sampling Rate : 30KHz ~ 216KHz 4) Bit Resolution : 24Bit
A/D Converter (AK5357)	1) Dynamic Range (S/N): 102 dB A-Weighted (Typical) 2) Frequency Characteristic : 20Hz ~ 40KHz 3) Sampling Rate : 4KHz ~ 96KHz 4) Bit Resolution : 24Bit
Chipset	Envy24HT-S(VT1721)

Identifying the Parts

Identifying the Parts



External Connection Jacks

- (1) RCA L, R-out terminal (Left white, Right red): For connecting with AMP or speaker,
- (2) Headphone-out terminal (white): For connecting with earphone or headphone.
- (3) Line-in terminal (white): For connecting with external line input such as TV receiving card
- (4) Digital(optical)-out terminal (angular, black): Digital(optical type)-out terminal.

Internal Connection Terminal

- ⑤ AUX-IN (white): Internal analog-in terminal for connecting with TV receiving card.

Other Terminals and Jumper Setting

(6) JP1: As a headphone amplification ON/OFF jumper, if it is ON during headphone usage over 150ohm, about 200% (comparing to RCA output) amplification is applied, and if it is OFF during general earphone or headphone below 150ohm usage, 70%(comparing to RCA output) amplification, default, is applied.

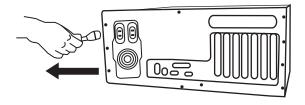
Product Installation

4-1. Removing Computer Case

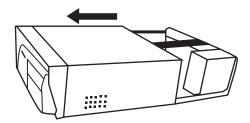
Those who are not familiar with hardware installation had better install the product with an acquaintance who knows about computer well, and those who install the product for the first time should read below to install the product.

Preparing for installing PCI card as follows,

- 1) The PCI card is wrapped with static electricity prevention plastic. You had better not unwrap the PCI card before installing it on your computer for preventing any damage.
- 2) Turn off your computer. Disconnect the power cable.



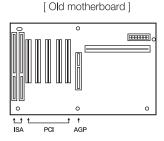
3) Remove the computer case from the computer. Check one vacant PCI slot located on the motherboard of your computer for installation of the PCI card.

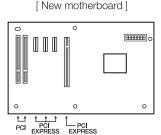


- 4) Touch a metal part of the computer case or other grounded materials to discharge static electricity within your body. The static electricity is partially removed by rolling up the sleeves or washing your hands with soap.
- 5) Hold the PCI card by an edge and a guide part which is a place for securing the PCI card to the computer case with screw. You had better not touch the parts inside the edge of the PCI card.

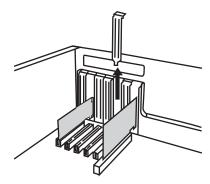
4-2, Installing Hardware Device

1) Remove the computer case from the computer. Accommodate the sound card to a vacant PCI slot. The latest motherboard usually has three types of slots which are the longest PCI Express 16x slot for graphic card, the shortest PCI Express 1x slot, and the PCI slot for the PCI sound card. The PCI slot has the same length with the PCI sound card so that users can easily locate the PCI slot. **Caution: For slim case, exchange the sound card with the provided LP type bracket, and then install.





2) Locate a PCI slot, Remove the empty guide from the computer case. The guide is usually inserted in a vacant slot. When installing an extension multimedia card, users are strongly encouraged to accommodate the sound card to a slot which is positioned one or more slot away from the graphic card.



- 3) Insert the sound card in a vacant slot. Slowly press the sound card after exactly aligning the bottom and the guide part of the sound card with the slot, Firmly press the sound card into the slot until it fits snugly, and then use the screw to secure the guide part and computer case. **Caution: If the sound card is wrongly accommodated to the PCI slot, then the power is on, system including the sound card may cause severe damage.
- 4) After completing the installation of the sound card, place the computer case back on the computer, reconnect the power cable, and install the speaker. **Caution: Users should use AMP-embedded speaker using power cable.

Check-Out Points Prior to Driver Installation

There are some check-out points to be performed prior to driver installation as follows.

5-1. Deactivating Embedded Sound Devices



The sound devices are generally embedded in the most of latest motherboard and are considerably inferior to the PCI sound card purchased. Newly installed PCI sound card occasionally conflicts with on-board sound devices, 3~6 stereo terminals around USB port indicate that there are existing sound devices on the motherboard Please refer to below for setting the sound devices as "Disable"

**Caution: In case of wrong setup of motherboard ROM BIOS, it may cause a booting error. Users are strongly encouraged to consult about the setup with manufacturer of your motherboard

- Turn on your computer, and then keep pressing [DEL] to enter CMOS SETUP. Method for entering the CMOS SETUP may differ depending on the motherboard, mostly by pressing [DEL], but rarely by pressing F1, F2, or F10.
- 2) Select Sound Setting mostly from Onboard Device or Integrated Peripherals, but rarely from Advanced Setting or Chipset Setting
- 3) Set Onboard Sound, HD Audio, AC' 97 Audio, MIDI, and Gameport as Disable Press Esc. Then Save & Exit appears. Press the Save & Exit to complete the setting.
 - Ex) New motherboard: Onboard Device → HD Audio → [Disable] Old motherboard: Integrated Peripherals → AC' 97 Audo → [Disable] Common: Game Port (Joystick) and MIDI Port (MPU401) → [Disable]

If your motherboard has different CMOS setting details from details described above, please consult with manufacturer of your motherboard. Because the CMOS setting details are slightly different depending on the motherboard

5-2. Motherboard Chipset Patch and Window Update(Service Pack)

Unless motherboard chipset driver, window update, and service pack are properly installed, error or continuous noise may occur during driver installation of the PCI sound card. Therefore, if the operating system is newly installed, window update and service pack as well as motherboard chipset patch driver included in the installation CD bundled with motherboard should be applied prior to installation of the sound card. If you think you don't know well enough about your motherboard chipset, please consult with manufacturer of your motherboard.

Driver Installation

Window 2000/XP/2003/XP64 and Window Vista in common

1) After completing sound card installation. restart your computer. If you are prompted for new driver found, click cancel, and then insert the bundled installation CD into the CD-ROM drive Click CD-ROM in my computer, and then execute Setup exe file in Driver → ProDigyHD2 folder

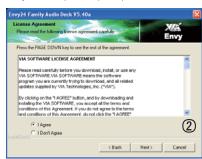


****Caution**: By simply specifying a driver location, the basic driver may be installed like the existing sound card. If you want to use a control panel program, you should use setup program to install the driver.



2) After completing the installation as follows, restart your computer if prompted.













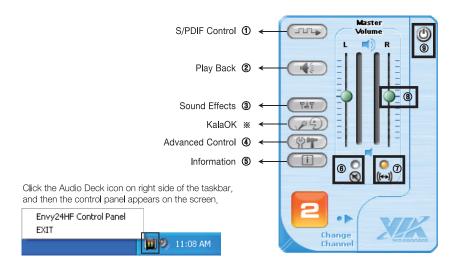
3) After restarting your computer, the control panel icon is created on right side of the taskbar. Also the Audio Deck control panel program is registered on start program menu.



4) Click the control panel icon on the taskbar, and then control panel appears on the screen. You may set volume control, digital output, analog output channel configuration, input configuration, and so forth

Control Panel Functions and Setting

7-1. Basic configuration



- (1) S/PDIF Control: Sets DIGITAL-OUT.
- (2) Play Back: Controls wave output, soft synthesis, and DIGITAL-OUT volume individually.
- ③ Sound Effects: Activates QSound Effect in Advanced Control and restart system. Then setting window appears. (Rebooting is not required in Windows Vista.)
- (4) Advanced Control: Sets Osound Effect and so forth
- (5) Information: Shows driver, windows, direct X, control panel versions and so forth
- (6) Mute: Gets into Mute state.
- (7) **Link**: Controls right and left channel volume simultaneously.
- (8) Master Volume: Controls volume of the sound card by moving volume fader up and down.
- (9) Exit: Allows the control panel to disappear from the window screen.
- * KalaOK: The function of KalaOK is not available caused that PRODIGY HD2 is not exist the Microphone input port

7-2. Description for each function

① S/PDIF Control

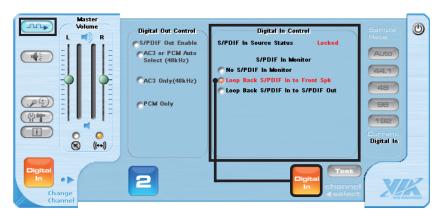


- Digital Out Control: Sets digital output mode.
- S/PDIF Out Enable: If checked, digital output is activated. You may identify red light lit from opposite side to the optical cable when the optical cable is connected to the optical terminal. If unchecked, the red light is off
- AC3 or PCM Auto Select (48kHz): It is compatible with all sound formats such as MP3, audio CD, DVD movies, and general movie files, and can use a pass-through. It may be desirable to uncheck here in case that an external decoder is not used, due to fixed frequency output of 48KHz.
- AC3 Only(48kHz): Can use pass-through during playback of DVD movies and AC3 movies. It may be desirable. to uncheck here in case that an external decoder is not used



PCM Only: If high performance external DAC like DR DAC2 of Audio Track is used, check here.

In PCM Only mode, sample rate can be up-sampled and outputted up to 192KHz. In AUTO state, as default, sample rate of the original source is outputted. You should check out digital input frequency supported by input device prior to up-sampling, because the input device can not receive signals out of range of supported frequency



- Digital In Control: Select Digital In, shaped in circle below, to use analog input of TV receiving card etc (LINE IN or AUX IN)
- **Caution: Analog signal inputted through line-in terminal of PRODIGY HD2 is converted by additionally mounted ADC (Analog to Digital Convert) chipset into digital signal, which is inputted into main controller chipset In this digital input mode, input gain control which is volume control for input can not be performed, window internal playback sound and digital input signal can not be mixed together and outputted, and sound is selectively outputted.
- No S/PDIF In Monitor : If checked, analog-in signal is not outputted.
- Loop Back S/PDIF In to Front Speaker : Analog-in signal is outputted as analog to RCA terminal and headphone terminal
- Loop Back S/PDIF In to S/PDIF Out : Analog-in signal is outputted as digital to an optical terminal

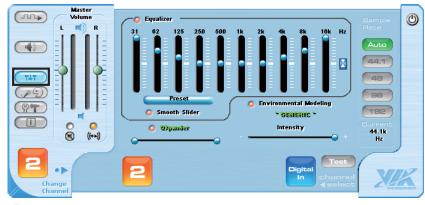


- Test: Tests right and left output of the speaker.
- *Caution: If Digital In checked, the speaker test can not be performed

② Play Back

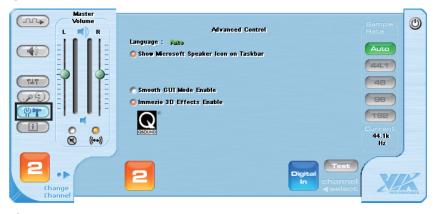


- Wave : Windows default sound, MP3 file, audio CD are outputted as wave. Move the volume fader to control volume, press Mute to be on mute mode like Master Volume, uncheck Link to control right and left volume respectively (refer to 6-1. Basic Setting)
- SW Synthesis : Controls volume during playback of MIDI file
- CD player: Audio CD playback uses CD-DA type controlling volume as wave volume, and volume control here is not valid.
- PCM SPDIF : Controls volume of digital output.
- **Caution: Volume control can not be performed in case of AC3/DTS pass-through and "Loop Back S/PDIF In to S/PDIF Out" checked for digital output from analog input.
- (3) **Sound Effects:** In Advanced Control, it is shown by activating Immezio 3D Effects.



- Equalizer : If checked to be activated, Equalizer is usable
 - Press Preset to load or store preset value
 - Check Smooth Slider to be convenient for some of adjacent values to be getting controlled simultaneously.
- QXpander: As a 2 channel virtual surround feature, gets phase of stereo output sound into midway or extends the phase for being spatial.
- Environmental Modeling: Load designated QSound environment setting effects.

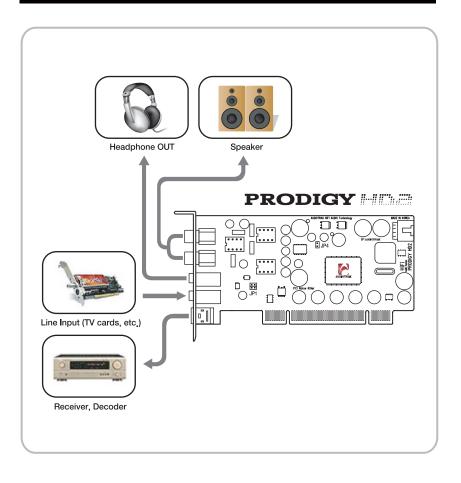
(4) Advanced Control



- Language: Sets language of the control panel supporting English and Chinese only, if the font is corrupted, press Auto to select English
- Show Microsoft Speaker Icon on Taskbar: Shows volume icon on the taskbar.
- Smooth GUI Mode Enable: If unchecked, output level meter is shown in Master Volume and Play Back during wave output
- Immezio 3D Effects Enable: It activates Sound Effects setting window.
 - (Rebooting is required in other versions than Windows Vista,)
- * Caution: If it is checked, Qsound Effect mode is applied. So, check this unless you play games or use Qsound Effect for higher quality sound, QSound Effect is not supported in Windows XP 64Bit
- (5) Information: You can check out driver, windows, direct X, and control panel versions and etc. in Information.



Hook-Up Application



FAQ / TIP provides tips for solving problems you may encounter during the use of PRODIGY HD2 series

Q: How Can I Remove Driver?

If errors in the control panel are occurred or the driver is required to be updated, remove the previously installed driver, restart the system, and reinstall the driver. For removing the driver, go to Driver \rightarrow ProDigyHD2 \rightarrow Envy24_Family_Driver folder in the installation CD, execute **Setup.exe** file to uninstall the driver. Or go to Control Panel \rightarrow Program Add/Remove, and then execute **Uninstall Envy24 Family Audio Device Driver**.

Q: What If the Computer Can Not Recognize the Device ...?

Your computer can not recognize the PCI card which doesn't fit snugly, so that errors may occur. Remove the PCI card from the PCI slot and then firmly press the PCI card into the PCI slot again. If the PCI slot is defective, reinstall the PCI card on another PCI slot. Gold-striped tabs of old PCI card which are directly contacted to the PCI slot may be corroded by dust or water that are invaded inside the computer, so please scrub the gold-striped tabs clearly with eraser or lubricant.

Q: What If the Computer Is Down During Driver Installation ...?

The driver may conflict with other hardware devices so that the computer gets down during driver installation. Check if there is an on-board sound device on the motherboard, if so, deactivate the embedded sound device. After that, if you still experience the problem, reinstall the sound card on another slot. If still abnormal, remove the existing PCI devices to perform inspection and consult with service center.

* Reference: 5-1, Deactivating Existing Sound Devices on Motherboard

Q: I'm Using Decoder-Embedded 5.1 Channel Speaker. Is 5.1 Channel Supported During Playback of DVD or AC3/DTS 5.1 Channel Movies With Optical-Out...?

You can apply Optical-Out with 5.1 Channel-Out by setting Pass Through Digital-Out in the movie players for playback of DVD, Dolby Digital, DTS formatted 5.1 channel movies. Go to the movie players \rightarrow Environment Setting \rightarrow Speaker Setting(Channel Setting) \rightarrow Check Pass Through Digital-Out.

Q: Internet Music Broadcasting(Winamp Broadcasting) or Voice Chatting Are Supported...?

PRODIGY HD2 is a 2 channel playback dedicated product and has no features such as MIC input and itself-recording function. Therefore internet music broadcasting or voice chatting are not supported.

Q: How Can I Control Volume During Using TV Receiving Card...?

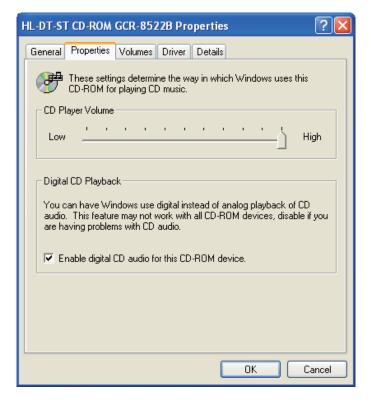
Analog input(LINE-IN, AUX-IN) to PRODIGY HD2 is not intended to perform volume control on window, During using TV receiving card, control volume by handling speaker or wired volume controller connected.

Q: Cable Should Be Connected When Audio CD Is Played ...?

For playback of audio CD using CD-ROM drive, there are tow methods of it. One is using analogout terminal of the CD-ROM drive, and the other is transferring digital data through data cable connected to motherboard. When audio cable(4 pins) is connected to the analog terminal in the rear of the CD-ROM for analog output from the CD-ROM in the past, sound quality outputted from the CD-ROM lowers due to very low quality DAC chip in the CD-ROM, Also, audio connection cable is required and it stroublesome to connect it to inside of the computer.

Otherwise, in CDDA mode which is digital CD output type, audio cable connection is not required between CD-ROM and the sound card, instead, you may experience stunning sound by using wave output of the sound card through data cable as digital-transferred.

Control Panel → System → Hardware → Device Manager, in which double-click the DVD/CD-ROM drive and then press Property. If 'Use digital audio in the CD-ROM' is checked as Default, the sound card outputs as wave by reading the music CD as data.



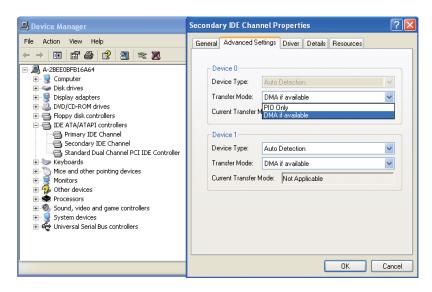
If checked above and sound is outputted unstable, transfer mode of the CD-ROM is must be set as low. Please change the transfer mode. See next question for changing the mode.

Q: What If Cut-Off of Sound or Noise Occur During Playback of Audio CD or DVD ...?

If data transfer mode of CD-ROM is not properly set, various problems such as noise generation, cut-off of sound, and low speed of system. Please, check below.

IDE controller uses PIO(Programmed Input/Output) mode and DMA(Direct Memory Access) mode as a transfer type. In the existing PIO mode, data is transferred from memory through CPU to the drive, but in DMA mode, the data is transferred through DMA channel directly to the drive so that transfer speed is faster and occupancy of CPU is considerably lowered. Also, interrupt for input/output is reduced for multi-tasking and fast operation. You are strongly encouraged to set DMA mode.

DMA mode is activated in Window XP/2003/Vista as default, but for old version of Windows such as Window 2000, go to Control Panel \rightarrow System \rightarrow Hardware \rightarrow Device Manager and activate the DMA mode as follows



If Intel Application Accelerator is patched in a motherboard using intel chipset, DMA mode is automatically set as default, but if other chipset is used, please check it out.

The cable connecting the motherboard and the CD-ROM is 40 pin-cable(less than DMA33 mode), but if 80 pin-cable(for connecting with DMA66/100/133 HDD) is used, troubles may occur.

Q: How Can I Do When Noise Is Generated From the Speaker Although the Sound Card Is Properly Installed...?

If noise is generated from the speaker, turn off the speaker or disconnect the speaker, and then check if the trouble is caused by speaker or sound card by connecting the earphone or headphone to the headphone terminal, If the noise is generated from the output terminal, please take action as below,

1. Turn down window and speaker volume.

First, turn down window basic mixer volume, and then control volume of the sound card for inhibiting excessive output.

2. Check the graphic card and LAN card and disconnect IRQ

This is the most frequently occurred trouble in case that the sound card conflicts with the embedded sound device or IRQ-shares with the graphic card and LAN card. Abnormal acceleration of some of the graphic card may cause increase in PCI but occupancy or abnormality. The driver of the graphic card should be replaced with regular driver and if the over-clock is applied cancel the over-clock for troubleshooting. The rest devices except sound device may cause noise. Especially, the graphic card and LAN card causes most of the troubles, please perform slot replacement and device inspection for the graphic card and LAN card.

* Reference: 5-1. Deactivating Existing Sound Devices on Motherboard

3. Install motherboard chipset patch driver and replace other device driver(required)

Devices mounted in the computer are operated together in an operating system. If the motherboard chipset or optimized drivers of each device in the computer are not properly patched, errors of data transfer and the devices occur. Check existing motherboard chipset to patch the chipset, and upgrade installed devices as latest driver. And, update motherboard ROM BIOS as latest version.

4. Check transfer mode of IDE controller and hard disk(required)

If data transfer mode between the hard disk and CD-ROM is not properly set or the hard disk data cable is wrongly connected, it may cause various noises, errors, and latency of the system. Data transfer between hard disks having different transfer speed may cause noise generation or cut-off of playback of large file like movies. At this time, copy the file to the hard disk where the operating system is installed, and then play the file.

5. Check ground of the computer.

Occasionally, current from power supply flows in the computer case due to improper ground and is felt by hand. Check the installation between the computer case and the motherboard or status of power supply. For preventing or minimizing noise which may cause damage of parts of the computer, connect electric wire between metal surface of the computer case and pipes for water or gas, metal desk, or bottom. The computer is strongly encouraged to be connected through extension code having ground, or to be directly connected to wall outlet.

6. Change power supply.

If the power supply terminal is used with lighting or the same power supply terminal is used for computer and the lighting due to wrong electric wiring in the building, noise may be generated by flickering of the lighting. At this time, use other power supply terminal. For example, HIFI device uses stable power supply through shielding transformer for preventing sound distortion and noise problems.

Service Guide

- 2 year limited warranty for free from the date of your purchase is applicable for PCI. USB sound card
- The date of purchase is referred to the dated itemized receipt. If proof of receipt is not possible, the date of the purchase is estimated from product manufactured date.
- The limited warranty is only applicable for free in case of normal usage during warranty period. Any failure or damage of the product by natural disaster (lightening, fire, flooding, etc.), remodeling, and carelessness or mistakes of user even if during the warranty period.
- Visit our Customer Support Center for A/S during the warranty period or use postal and parcel services
- For more information about product and technical support, please feel free to visit our web site and go to Q&A board to be supported.

Service Center

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