

© AUDIO 4 DJ



USER'S MANUAL



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Users Guide written by André Benedix

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Special thanks to the Beta Test Team, who were invaluable not just in tracking down bugs, but in making this a better product.

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1. Welcome to the AUDIO 4 DJ!

Thank you for purchasing the AUDIO 4 DJ! With its set of professional features, the AUDIO 4 DJ is the perfect match for your DJ and recording applications:

- ▶ Robust and portable design for the harshest traveling and live stage conditions
- ▶ 4 inputs and 4 outputs integrate the AUDIO 4 DJ into most DJ and recording setups
- ▶ 2 phono preamps let you connect turntables directly
- ▶ Low-latency drivers provide natural analog feel for your DJ software
- ▶ 24 bit converters for crystal-clear audio quality
- ▶ High output levels let you feed any external mixer or effects device
- ▶ Monitoring LEDs let you check the status of your system at a glance

Have fun with your AUDIO 4 DJ!

The team at NATIVE INSTRUMENTS

2. Safety Considerations

The following sections contain important information regarding the use of the AUDIO 4 DJ hardware. Please read them thoroughly before you start to use the AUDIO 4 DJ!

2.1 Warning

- ▶ The AUDIO 4 DJ hardware contains no user-serviceable parts. Do not open it or attempt to disassemble or modify any internal hardware. If there appears to be a hardware malfunction, immediately stop using the hardware and contact NATIVE INSTRUMENTS.
- ▶ Do not expose the AUDIO 4 DJ to rain, and do not use it near water or in damp or wet conditions. Also, never place anything on top of the controller, and be very careful that no objects or liquids of any kind enter the unit.
- ▶ The AUDIO 4 DJ, in combination with an amplifier, headphones or speakers, can produce sound levels capable of damaging your ears. Do not use it for long periods of time at high volume levels. If you experience any hearing problems or ringing in the ears, consult a hearing specialist immediately.
- ▶ The AUDIO 4 DJ hardware is powered via USB. Operation can be guaranteed only as a single device with a USB 2 controller or with a self-powered USB 2.0 hub.

2.2 Caution

- ▶ Before connecting the AUDIO 4 DJ hardware to other electronic components, turn off the power for all devices. Before powering your system up or down, set all volume levels to minimum. Gradually raise the volume controls while playing your instruments to set the desired listening level.

- ▶ Do not place the AUDIO 4 DJ hardware in an unstable position where it might accidentally fall to the ground.
- ▶ Before moving the AUDIO 4 DJ hardware, remove all connected cables.
- ▶ Never subject the unit to extreme temperatures (e.g. direct sunlight in an enclosed vehicle or near a heat source), or high levels of vibration.
- ▶ Do not use excessive force on the buttons, knobs, switches or connectors.
- ▶ When cleaning the AUDIO 4 DJ hardware, use a soft, dry cloth. Do not use paint thinner, solvents, cleaning fluids, or chemically-impregnated wiping cloths.

2.3 Important Notes

- ▶ Disclaimer: NATIVE INSTRUMENTS GmbH cannot be held responsible for damage or data loss caused by improper use of, or modification to, the AUDIO 4 DJ hardware or software. It is your responsibility to back up data you don't want to lose.
- ▶ Specifications subject to change: The information contained in this manual is believed to be correct at the time of printing. However, NATIVE INSTRUMENTS reserves the right to make changes to the specifications of software and hardware at any time without notice or obligation to update existing units.
- ▶ Nameplate location: The nameplate is located on the bottom of the AUDIO 4 DJ hardware and lists the Production ID.
- ▶ Disposal notice: Should this product become damaged beyond repair, or for some other reason come to the end of its useful life, please observe all regulations of your country that relate to the disposal of electronic products.
- ▶ Copyright: © NATIVE INSTRUMENTS GmbH 2008. All rights reserved. This publication may not be reproduced in whole or in part, summarized, transmitted, transcribed, stored in a retrieval system, or translated into any language, in any form or by any means without the prior written permission of NATIVE INSTRUMENTS GmbH.
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3. System requirements

For latest system requirements, compatibility and support of the latest operating systems please see our website at:

www.native-instruments.com/audio4dj

4. Installation

This chapter explains how to connect the AUDIO 4 DJ hardware to your computer and how to install the drivers and software required to use it.

4.1 Installation of the AUDIO 4 DJ

To make use of the AUDIO 4 DJ, you need to install its driver first. The driver handles communication between the AUDIO 4 DJ hardware and your computer.

The driver itself is not accessible: like any other driver on your operating system, it is a piece of software loaded in the background when your system starts up. The driver takes care of all audio and MIDI signals coming from or going to the AUDIO 4 DJ hardware through the USB2 connection.

Although the driver itself is inaccessible, you can edit some of its settings to modify its behavior for your audio setup.

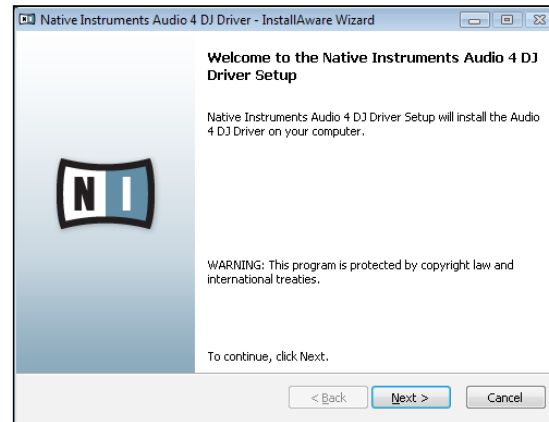
These settings can be edited. How to achieve this will be explained in detail in chapter 7 “AUDIO 4 DJ Software.”



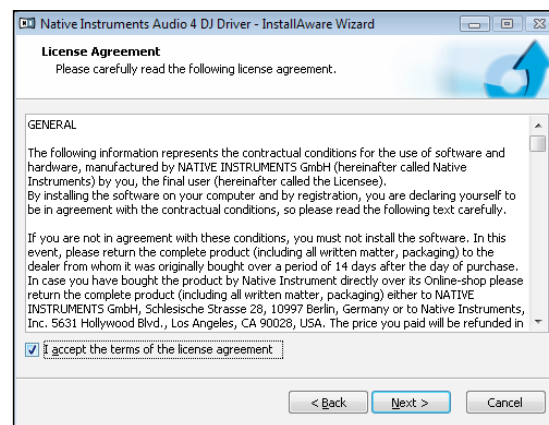
Do not connect the AUDIO 4 DJ hardware until the driver installer prompts you as the operating system may install the wrong drivers.

4.1.1 Installing the AUDIO 4 DJ Driver on Windows XP and Windows Vista

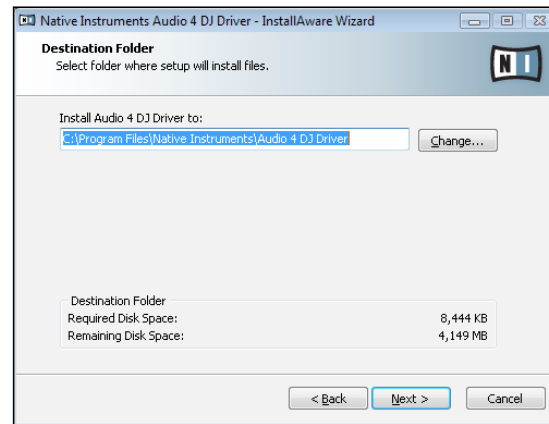
1. Place the installation CD-ROM in your computer's CD/DVD-ROM drive.
2. Use the Windows Explorer to browse the content of the CD.
3. Double-click the installer file named "AUDIO 4 DJ Driver Setup".



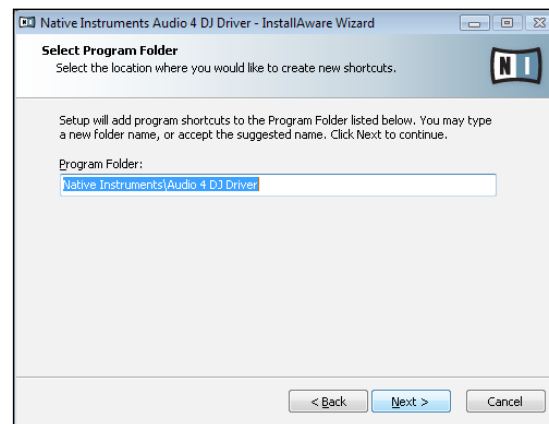
4. Click "Next."



5. To continue, you need to accept the license agreement first. After you have read the license agreement, check the according checkbox and click "Next."



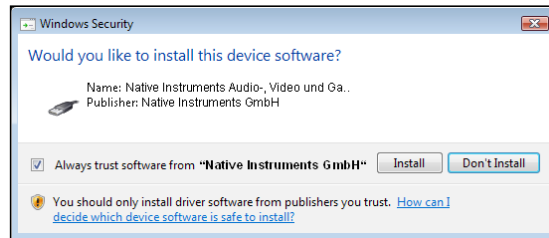
6. In the next dialog, choose the destination folder for the driver installation. To use the default path, just click “Next.” If you wish to select a custom path, click “Change”, browse to the folder where you want to install the Audio 4 DJ Driver and click “Next.”



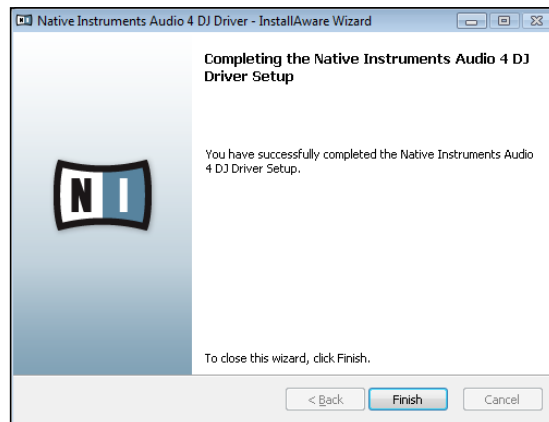
7. Now select the folder in the Windows Start dialog to place the AUDIO 4 DJ Driver Setup. To use the default path, just click “Next.” To set a custom folder, type in a name for it, then click “Next.”



8. On the next dialog page, the Install Wizard will prompt you to start the installation by clicking “Next.” To return to the previous dialog page, click “Back.” To abort the installation procedure, click “Cancel.”



9. During the driver installation, a screen will appear with a message that the driver has not passed Windows Logo Testing; this does not indicate a problem, simply click on “Continue Anyway” to proceed with the installation.



10. After the installation has been performed successfully, click “Finish.”
11. After the TRAKTOR installer has finished running, please connect the AUDIO 4 DJ to any available USB port on your computer, using the USB cable included in delivery. Windows will identify the AUDIO 4 DJ and begin the final installation process. Choose “No” if Windows asks you to search the Internet for a driver. Please note that as multiple driver components are installed, you will see the whole sequence of installer screens repeated twice; this is not an error, just follow along and make the appropriate choices to finish the installation.

 You cannot install the AUDIO 4 DJ on a USB 1.1 port – a USB 2.0 port is required.

Accessing the AUDIO 4 DJ Software Tools on Windows

To access the AUDIO 4 DJ software tools on Windows, select

Windows Start > All Programs > Native Instruments > Audio 4 DJ Driver.

In this folder you will find the Settings Tool (explained in chapter [7.1 “Understanding the Settings Tool”](#)) and the Control Panel (explained in chapter [7.2 “Understanding the Control Panel”](#)).

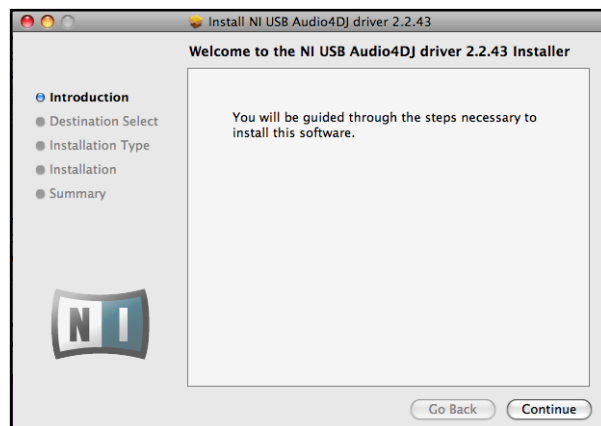
Uninstalling the AUDIO 4 DJ Drivers on Windows

To uninstall the AUDIO 4 DJ drivers from your computer:

- ▶ Open *C:\Program Files\Native Instruments\Audio 4 DJ Driver*.
- ▶ Double-click the *Unwise Tool* to begin un-installation.
- ▶ Choose *AUTOMATIC* from the following dialog.

4.1.2 Installing the AUDIO 4 DJ Drivers on Mac OS X

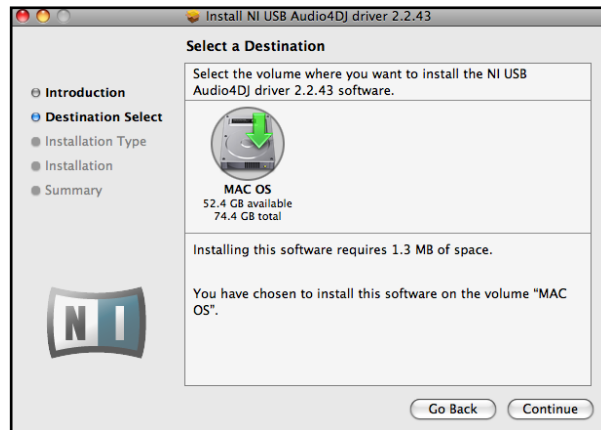
1. Place the installation CD-ROM in your computer’s CD/DVD-ROM drive. Its icon will appear in the Mac OS X Finder.
2. Double-click the “AUDIO 4 DJ” CD icon to display the content of the CD.
3. Double-click the installer file.



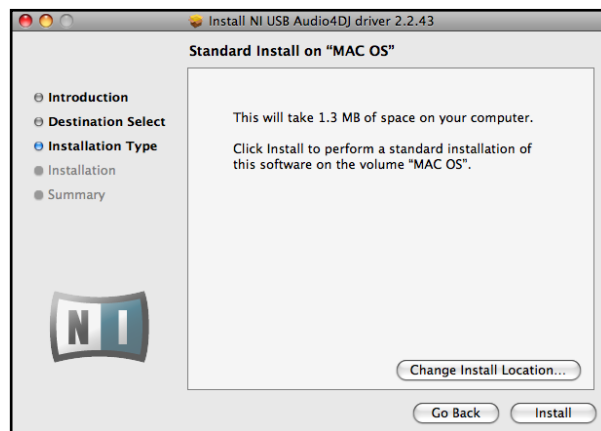
4. In the appearing dialog click “Continue” to proceed.



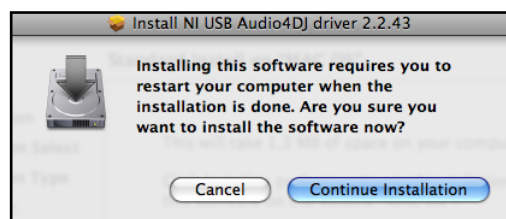
Do not connect the AUDIO 4 DJ hardware until the driver installer prompts you, as the operating system may install the wrong drivers!



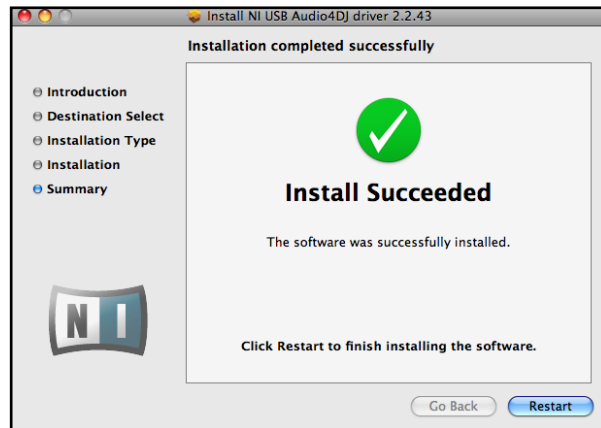
5. Select a destination volume, then click “Continue” to proceed.



6. Click “Install” to install the driver in the default path or browse to select a custom installation path by clicking “Change Install Location.” Then click “Install.”



7. The next screen informs you that your computer needs to be restarted when the installation is done. If you have any other applications running, you should close them now. To continue, click “Continue Installation.”



8. After a successful installation you will be prompted to restart your Mac. Click “Restart” to restart your computer.
9. After restarting your computer, connect the AUDIO 4 DJ to a free USB 2.0 port of your Mac, using the USB cable included in delivery.

Accessing the AUDIO 4 DJ Software Tools on Mac OS X

To access the AUDIO 4 DJ software tools, double-click *Applications/Audio 4 DJ Driver*.

In this folder you will find the Settings Tool. Read more about the Settings Tool in chapter 7.1 “Understanding the Settings Tool.”

Uninstalling the AUDIO 4 DJ Drivers on Mac OS X

To uninstall the AUDIO 4 DJ drivers from your computer, please delete the following files manually:

/System/Library/PreferencePanes/NIUSBAudio.prefPane
/Library/Audio/MIDI Drivers/NIUSBMIDIDriver.plugin
/Library/Preferences/de.caiaq.NIUSBAudio.hwsettings.plist
/System/Library/Extensions/NIUSBAudioDriver.kext
/Library/StartupItems/NIUSBAudioDaemon

 You cannot install the AUDIO 4 DJ on a USB 1.1 port – a USB 2.0 port is required.

 Please always refer to the Readme file on the installation CD, as it contains last minute information that may not be available in the printed manual.

4.2 Installation of the Settings Tool

This section describes the installation and the uninstall process of the Settings Tool. Information on how to use the Settings Tool can be found in chapter [7.1 “Understanding the Settings Tool.”](#)

4.2.1 Installing the Settings Tool on Windows

This section describes the installation and the uninstall process of the Settings Tool on a Windows PC.

Installing the Settings Tool

The Settings Tool will be installed along with the driver of the AUDIO 4 DJ. Please follow the instructions on installing the AUDIO 4 DJ driver given in chapter [4.1.1 “Installing the AUDIO 4 DJ Drivers on Windows.”](#) There is no interaction required.

Uninstalling the Settings Tool

The Settings Tool can be uninstalled along with the driver of the AUDIO 4 DJ. Please follow the instructions on uninstalling the AUDIO 4 DJ driver given in chapter [4.1.1 “Installing the AUDIO 4 DJ Drivers on Windows.”](#) There is no interaction required.

4.2.2 Installing the Settings Tool on Mac OS X

This section describes the installation and the uninstall process of the Settings Tool on a Macintosh computer.

Installing the Settings Tool

The Settings Tool will be installed along with the driver of the AUDIO 4 DJ. Please follow the instructions on installing the AUDIO 4 DJ driver given in chapter [4.1.2 “Installing the AUDIO 4 DJ Drivers on Mac OS X.”](#) There is no interaction required.

Uninstalling the Settings Tool

To uninstall the Settings Tool from a Macintosh computer, please delete the file *Applications/Audio 4 DJ Driver/Settings Tool*.

4.3 Installation of the Control Panel

This section describes the installation and the uninstall process of the Control Panel. Information on how to use the Control Panel can be found in chapter 7.2 “Understanding the Control Panel.”

4.3.1 Installing the Control Panel on Windows

This section describes the installation and the uninstall process of the Control Panel on a Windows PC.

Installing the Control Panel

The Control Panel will be installed along with the driver of the AUDIO 4 DJ. Please follow the instructions on installing the AUDIO 4 DJ driver given in chapter 4.1.1 “Installing the AUDIO 4 DJ Drivers on Windows.” There is no interaction required.

Uninstalling the Control Panel

The Control Panel can be uninstalled along with the driver of the AUDIO 4 DJ. Please follow the instructions on uninstalling the AUDIO 4 DJ driver given in chapter 4.1.1 “Installing the AUDIO 4 DJ Drivers on Windows.” There is no interaction required.

4.3.2 Installing the Control Panel on Mac OS X

This section describes the installation and the uninstall process of the Control Panel on Mac OS X.

Installing the Control Panel

The Control Panel will be installed along with the driver of the AUDIO 4 DJ. Please follow the instructions on installing the AUDIO 4 DJ driver given in chapter 4.1.2 “Installing the AUDIO 4 DJ Drivers on Mac OS X.” There is no interaction required.

Uninstalling the Control Panel

There is no option to uninstall the Control Panel on Mac OS X automatically.

5. Registration and Product Authorization

Registering the AUDIO 4 DJ is not mandatory. Nevertheless, registration is recommended, as it can be helpful in case of a support inquiry or a theft. To register your AUDIO 4 DJ on the NATIVE INSTRUMENTS website, use the serial number from the product activation sticker inside your AUDIO 4 DJ product package.

To register your AUDIO 4 DJ:

- ▶ Open your standard internet browser
- ▶ Open the NATIVE INSTRUMENTS website:
www.native-instruments.com
- ▶ In the headline navigation, click on “Support”
- ▶ On the next page, click on “Product Activation”
- ▶ Since you only need to register the serial number, please read further in section *B) Serial Number Registration* and click on the link labeled *Register the serial number here...*
- ▶ If you never registered a NATIVE INSTRUMENTS product, choose *Create User Account*. Choose *Additional Product Registration* if you already are a registered user of a NATIVE INSTRUMENTS product.
- ▶ In any case, the following web pages will guide you step-by-step through the registration.

6. AUDIO 4 DJ Hardware

The AUDIO 4 DJ provides the following features:

- ▶ 24 Bit/96 kHz Analog-Digital/Digital-Analog converters
- ▶ Low-latency drivers
- ▶ Hi-gain output levels on all channels.
- ▶ 4 audio inputs
- ▶ 4 audio outputs
- ▶ 1/4" headphone connector
- ▶ Status LEDs displaying the AUDIO 4 DJ's settings and input/output activity

Read more about the AUDIO 4 DJ's controls and connectors on the following pages.

6.1 Front Panel



1 - Headphone Volume

2 - Headphone Output

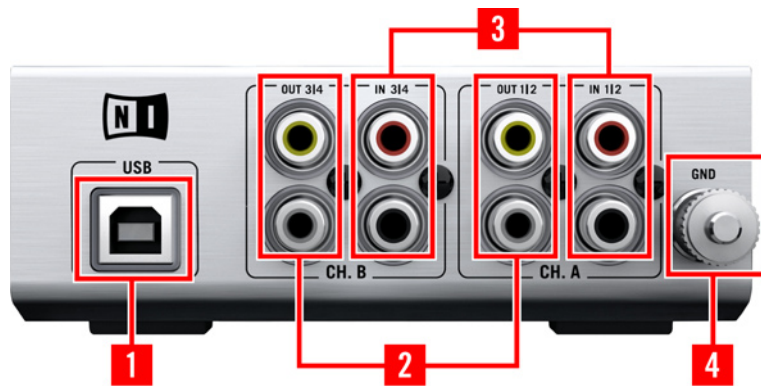
1 - Headphone Volume

Use this knob to adjust the level of the Headphone Output.

2 - Headphone Output

Connect your headphones to this 1/4" socket.

6.2 Rear Panel



1 - USB 2.0 Port

2 - Inputs A & B

3 - Outputs A & B

4 - Ground Screw

1 - USB 2.0 Port

Connects the AUDIO 4 DJ to your computer. The USB 2.0 connection handles data transmission and provides bus power to your AUDIO 4 DJ. This means you do not need an external power supply.

2 - Inputs A & B

You can configure these inputs as 2 stereo pairs or 4 mono input channels.

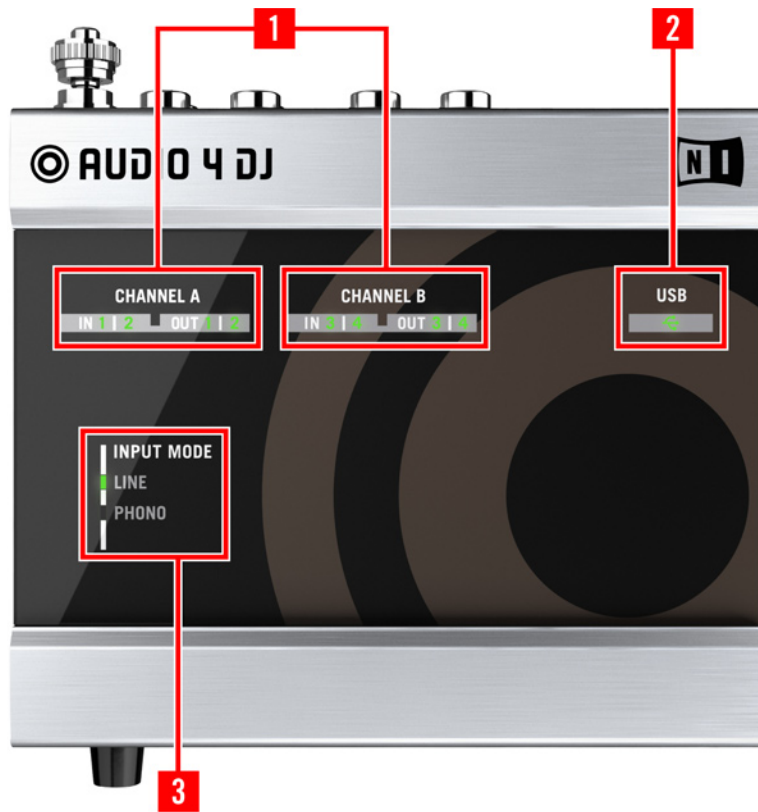
3 - Outputs A & B

You can configure these outputs as 2 stereo pairs or 4 mono output channels.

4 - Ground Screw

Attach your turntable's grounding wire to this screw to eliminate hum induced by ground loops from the audio signal.

6.3 Status LEDs



1 - CHANNEL A and CHANNEL B

2 - USB

3 - INPUT MODE (Channel A and Channel B)

1 - CHANNEL A and CHANNEL B:

These LEDs provide information about the AUDIO 4 DJ's audio inputs and outputs: they light up green to indicate that an audio signal is present. If the input signal is too loud and causes clipping, the LEDs turn red.

2 - USB:

When the AUDIO 4 DJ is connected, this LED is lit green. If the USB status LED remains black although you have connected the AUDIO 4 DJ to your computer, please refer to chapter 10 "Troubleshooting" in this manual.

3 - INPUT MODE (Channel A and Channel B):

Colored LEDs help you to identify the currently selected Input Mode.

Select one of the following Input Modes in the Audio 4 DJ Settings Tool, as explained in [chapter 7.1.2](#):

- ▶ Line Mode, applicable to line-level audio sources like CD/DVD Players, Keyboards or other audio interfaces
- ▶ Phono Mode, applicable for turntables

6.4 AUDIO 4 DJ Technical Specifications

GENERAL INTERFACE SPECIFICATIONS

	INPUT (A/D)	OUTPUT (D/A)
Channels	4	4
Sampling Rate	44.1, 48, 96 kHz	44.1, 48, 96 kHz
Bit Resolution	24	24
Converter	Cirrus Logic™	Cirrus Logic™
Computer Connection	USB 2.0, Bus-Powered	
Dimensions	45 x 121 x 103 mm	
Weight	521 g	

INPUT SPECIFICATIONS

	LINE	PHONO
Cross Talk	87 dBu	87 dBu
Impedance	1 MOhm (unbalanced)	47 kOhm (unbalanced)
Full Scale Level (max.gain)	11,9 dBu	-29 dBu
THD+N	0.009%	0.062%
SNR	> 100 dBA (weighted)	> 91 dBA (weighted)
Frequency Response	10-40 kHz	10-40 kHz
	±0.5 dB	±0.5 dB

OUTPUT SPECIFICATIONS

	LINE
Cross Talk	87 dBu
Impedance	82 Ohms (Unbalanced)
Maximum Output Level	+ 9,7 dBu
THD+N	0.008%
SNR	> 100 dB (weighted)
Frequency Response	10-40 kHz (±0.5 dB)

7. AUDIO 4 DJ Software

This chapter shows you all features of the Settings Tool and Control Panel utilities that are part of the AUDIO 4 DJ software installation.

7.1 Understanding the Settings Tool

The Settings Tool is a graphical representation of the AUDIO 4 DJ and allows you to change its general settings.

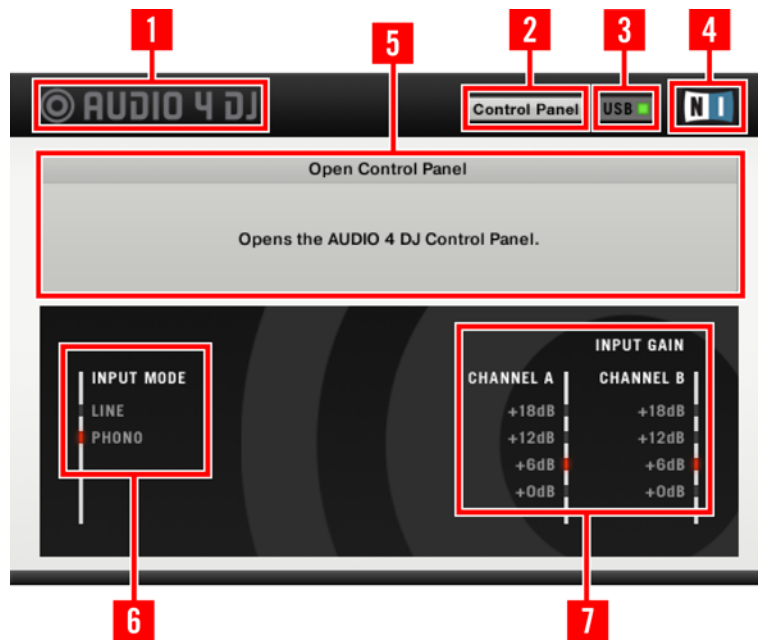
7.1.1 Open the Settings Tool

- ▶ On Mac OS X, double-click on *Applications/Audio 4 DJ Driver/Settings Tool* to open the Settings Tool.
- ▶ On Windows XP, click on *Start > All Programs > Native Instruments > Audio 4 DJ Driver > Settings Tool* to open the Settings Tool.
- ▶ On Windows Vista, click on *Start > All Programs > Native Instruments > Audio 4 DJ Driver > Audio 4 DJ Settings* to open the Settings Tool.



It might be a good idea to create a dock element (Mac OS X) or desktop shortcut (PC) for better accessibility.

7.1.2 Overview



- 1 - AUDIO 4 DJ Logo
- 2 - Control Panel
- 3 - USB Connection Monitor
- 4 - NI Logo
- 5 - Info Window
- 6 - Input Mode Selector
- 7 - Input Gain Selector

1 - AUDIO 4 DJ Logo

Click on the AUDIO 4 DJ logo to open the ABOUT SCREEN. The ABOUT SCREEN displays the driver version number, the firmware version number, the settings tool version number as well as the credits.

In case of a support inquiry you may be asked for one or more of these details.

Click on the ABOUT SCREEN to close it.

2 - Control Panel

Click on the CONTROL PANEL button to open the CONTROL PANEL. The CONTROL PANEL is explained in detail in chapter [7.2 “Understanding the Control Panel.”](#)

3 - USB Connection Monitor

This is a status LED, showing you whether the AUDIO 4 DJ is connected to your computer or not. To change any settings, the AUDIO 4 DJ must be connected to your computer via USB 2.0.

- ▶ The USB Connection Monitor LED is black if the AUDIO 4 DJ is not connected to your computer.
- ▶ The USB Connection Monitor LED is lit green if the AUDIO 4 DJ is connected to your computer.

4 - NI Logo

Click on the NI logo to open the ABOUT SCREEN. The ABOUT SCREEN displays the driver version number, the firmware version number, the settings tool version number as well as the credits.

In case of a support inquiry you may be asked for one or more of these details.

Click on the ABOUT SCREEN to close it.

5 - Info Window

The INFO WINDOW displays helpful information about the different settings and features. Hover over one of the features and you will see a description of the respective setting or feature.

6 - Input Mode Selector

The Input Mode Selector lets you adapt input channel A and B to different signal sources (see below). To select an Input Mode, click on its label. If PHONO is selected, you can adjust input gain using the INPUT GAIN SELECTOR. Depending on what kind of signal source you want to use, choose one of the following options:

- ▶ LINE: Choose this if you use a digital vinyl system with control CDs.
- ▶ PHONO: Use this if you want to record normal vinyl records, because this mode is optimized for best sound at the AUDIO 4 DJ.

7 - Input Gain Selector

In Phono Input Mode, use the INPUT GAIN SELECTOR to select the amount of pre-amplification applied to the audio input signals. Use this for adjusting recording levels and for DVS systems without automatic input amplification. To select an Input Gain value, click its label.



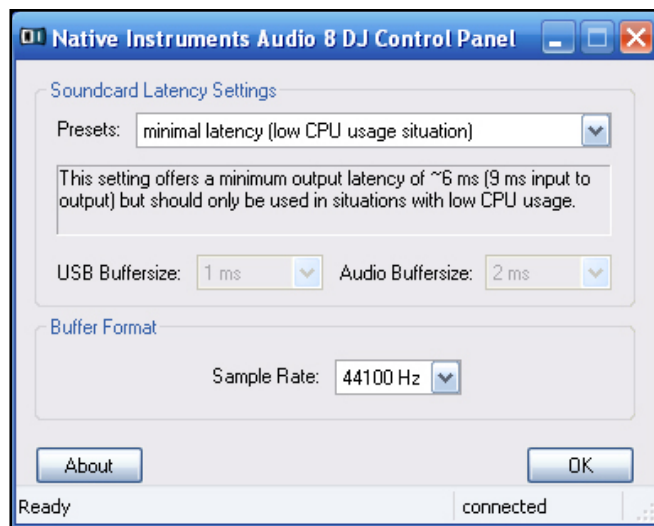
This control is inactive in Line Input Mode!

7.2 Understanding the Control Panel

This chapter will introduce you to the Control Panel and its settings.

7.2.1 The Control Panel on Windows

On Windows operating systems, the Control Panel allows you to change the performance settings of the AUDIO 4 DJ. To open the Control Panel, click on *Start > All Programs > Native Instruments > Audio 4 DJ Driver > Control Panel*.



7.2.2 Soundcard Latency Settings

Any signal going into the computer has to go through two buffers: once through the USB bus and once through the ASIO driver. On every path, latency is created.

- ▶ **PRESETS:** Select a preset that has already preconfigured values for the USB and the AUDIO BUFFER SIZE. Choosing *User defined Settings* allows you to choose an USB BUFFER SIZE independently from the AUDIO BUFFER SIZE.
- ▶ **USB BUFFER SIZE:** If you have chosen *User defined Settings*, you can choose here an USB BUFFER SIZE value. Available values are 1, 2, 3, 4, 8 and 16 ms.
- ▶ **AUDIO BUFFER SIZE:** If you have chosen *User defined Settings*, you can choose here an AUDIO BUFFER SIZE value. The values depend on the chosen USB BUFFER SIZE value. If you have chosen a high USB Buffer Size, the lower AUDIO BUFFER SIZE values are not available. If you have chosen the lowest USB BUFFER SIZE value (1 ms), all options are available: 2, 3, 4, 5, 6, 7, 8, 9, 10, 12, 16, 32 and 64 ms.
- ▶ Click on OK to confirm your changes and to close the CONTROL PANEL.



Small USB and Audio Buffer settings stress your computer more. Read more on latency in chapter 10.5 “What is Latency?”

7.2.3 Buffer Format

In this area of the CONTROL PANEL, you can select the sample rate that the AUDIO 4 DJ handles audio streams at. The value selected here always applies to all audio input and output streams.

To select a sample rate:

- ▶ Choose a sample rate from the Sample Rate menu. 44100 Hz is the most common setting. Other available options are 48000 Hz and 96000 Hz.
- ▶ Click on OK to confirm your changes and to close the Control Panel.



The higher the chosen value, the more CPU power is required for handling audio.

7.2.4 About

Click on the ABOUT button to open the ABOUT SCREEN. The ABOUT SCREEN displays the driver version number and the interface version number.

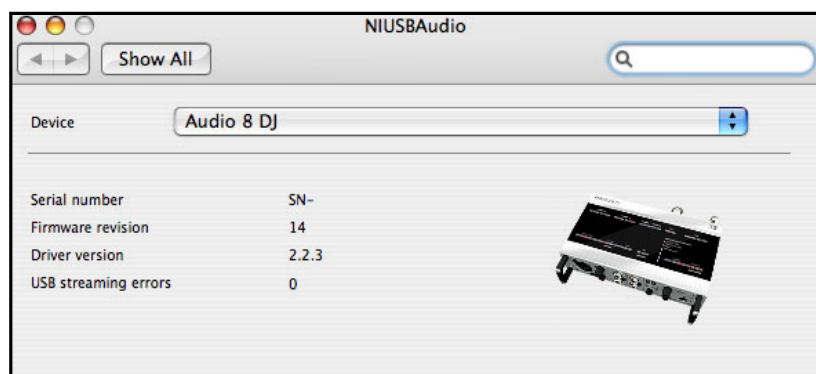
In case of a support enquiry you may be asked for one of these details.

Click on OK to close the ABOUT SCREEN.

7.2.5 The Control Panel on Mac OS X

On Mac OS X, the Control Panel displays the firmware version, the driver version and the number of USB streaming errors. It does not provide any options or settings, as these can be configured from within the audio software you want to use the AUDIO 4 DJ with.

You can access the Control Panel by selecting it from the Mac OS X system preferences.



8. Basic Setups

Learn more about how to connect and configure the AUDIO 4 DJ by having a look at the typical setups described in the following.

8.1 Using the AUDIO 4 DJ as Default Audio Device

Using the AUDIO 4 DJ as standard sound card (Default Audio Device) of your operating system will bring brilliance in your living room when listening to music or watching DVDs via your computer.

8.1.1 Using the AUDIO 4 DJ in Windows

- ▶ Make sure the volume controls of the amplifier are completely turned down!
- ▶ Open *Start > Control Panel > Sounds & Audio Devices*.
- ▶ Click on the *Audio* tab.
- ▶ As *Default Device for Sound Playback*, choose one of the available channel pairs of the AUDIO 4 DJ, e.g. *AUDIO 4 DJ (CH. B, Out 3/4)*.
- ▶ Plug a RCA cable into OUT 3/4 of the AUDIO 4 DJ and connect it to a free input pair of your amplifier.
- ▶ Open an available music file or sound on your computer. It should get played back via the AUDIO 4 DJ now.

8.1.2 Using the AUDIO 4 DJ in Mac OS X

- ▶ Make sure the volume controls of the amplifier are completely turned down!
- ▶ Click on Applications/Utilities/Audio MIDI Setup or open the “Audio MIDI Setup” from the Dock.
- ▶ In “Audio Devices”, choose “Audio 4 DJ” as Default Output.
- ▶ Click on Configure Speakers.
- ▶ Choose *Stream 2* (Channel 3 & 4) as output.

8.2 Using the AUDIO 4 DJ with a CD Player

- ▶ Make sure the volume controls of the amplifier are completely turned down!
- ▶ In the Settings Tool, choose *Line* as Input Mode.
- ▶ Connect the RCA cable of your CD player to a free input pair of the AUDIO 4 DJ, e.g. *AUDIO 4 DJ (CH. A, In 1/2)*.
- ▶ Put a CD in your CD-Player and start playing it.

8.3 Using the AUDIO 4 DJ with a Turntable

- ▶ Make sure the volume controls of the amplifier are completely turned down!
- ▶ In the Settings Tool, choose *Phono* as Input Mode.
- ▶ Connect the RCA cable of your turntable to the input pair of channel A or B of the AUDIO 4 DJ, e.g. *AUDIO 4 DJ (CH. A, In 1/2)*.
- ▶ Connect your turntable’s ground wire to the AUDIO 4 DJ’s ground screw.
- ▶ Put a record on your turntable and start playing it.

8.4 Using the AUDIO 4 DJ in a Recording Setup

Using the AUDIO 4 DJ as recording device, you can transfer your beloved vinyl records to the digital era as well as capture your own vocal or instrument performance.

8.4.1 Using the AUDIO 4 DJ as Recording Device on a PC

- ▶ Open *Start > Control Panel > Sounds & Audio Devices*.
- ▶ Click on the “Audio” tab.
- ▶ As “Default Device for Sound Recording”, choose one of the available channel pairs of the AUDIO 4 DJ you want to record from, e.g. *AUDIO 4 DJ (CH. A, In 1/2)*.
- ▶ In your recording software’s Options dialog, choose the respective input.
- ▶ Adjust the recording level in your recording software and start recording.

8.4.2 Using the AUDIO 4 DJ as Recording Device on a Mac

- ▶ Click on *Applications/Utilities/Audio MIDI Setup* or open the Audio MIDI Setup from the Dock.
- ▶ In “Audio Devices”, choose “Audio 4 DJ” as Default Input.
- ▶ Adjust the recording level in your recording software and start recording.

9. Using the AUDIO 4 DJ in TRAKTOR

In the following sections you will learn how to set up and use the AUDIO 4 DJ for DJ'ing with a software from NATIVE INSTRUMENTS' TRAKTOR product line. Please note that we will refer to all products from the TRAKTOR product line simply as TRAKTOR, because the functionalities described here are identical in all current TRAKTOR products.

9.1 Using the AUDIO 4 DJ in TRAKTOR with the internal Mixer

- ▶ Open TRAKTOR.
- ▶ Open *Preferences > Audio Setup > Soundcard*.
- ▶ From the dropdown menu, choose the entry *AUDIO 4 DJ*.
- ▶ Now open *Preferences > Audio Setup > Output Routing*.
- ▶ Choose a channel pair for the MASTER output.
- ▶ Connect this output pair to your amplifier or powered speakers.
- ▶ For the MONITOR output, choose channel pair *Out 3/4*, so that you can pre-listen to tracks.
- ▶ Turn down the headphones volume on the AUDIO 4 DJ to a low level.
- ▶ Connect your headphones to the headphones output on the AUDIO 4 DJ.
- ▶ In TRAKTOR, turn down the MIX KNOB to 0%.
- ▶ In TRAKTOR, adjust the headphones volume with the VOL KNOB to a comfortable level.
- ▶ From the Browser List, drag tracks in both decks and hit the PLAY button.
- ▶ Drag the CROSSFADER all the way to the left (DECK A).
- ▶ Click on the CUE button of DECK B.
- ▶ You should hear the track playing on DECK B only in your headphones, while the track in DECK A is playing over your speakers.



You can find more and detailed descriptions about the TRAKTOR software in your TRAKTOR product's user manual.

9.2 Using the AUDIO 4 DJ in TRAKTOR with an External Mixer

- ▶ Open TRAKTOR.
- ▶ Open *Preferences > Audio Setup > Soundcard*.
- ▶ From the Device menu, select the *AUDIO 4 DJ* entry.
- ▶ Now open *Preferences > Audio Setup > Output Routing*.
- ▶ Choose *External* as MIXER MODE. The options below change accordingly.
- ▶ For OUT CHANNEL A, choose an output pair from the dropdown menu, e.g. *Out 1* and *Out 2*.
- ▶ Connect these outputs of the AUDIO 4 DJ to a free channel of your DJ mixer, e.g. channel 1, using a RCA cable.
- ▶ For OUT CHANNEL B, choose another output pair from the dropdown menu, e.g. *Out 3* and *Out 4*.
- ▶ Connect these outputs of the AUDIO 4 DJ to a free channel of your DJ mixer, e.g. channel 2, using a RCA cable.
- ▶ Connect the master output of your DJ mixer to your amplifier or powered speakers.
- ▶ From the Browser List, drag tracks in both decks and hit the PLAY button.
- ▶ Drag the Crossfader of your DJ mixer all the way to the left (Deck A or Channel 1).
- ▶ Set the headphones mix knob/fader of your DJ mixer to 0%. If you do not find a headphones mix knob/fader, please consult the manual of your hardware mixer.
- ▶ Use the cue button/switch/fader of Deck B (Channel 2) of your DJ mixer. If you do not find a cue button/switch/fader, please consult the manual of your hardware mixer.
- ▶ You should hear the track playing on Deck B only in your headphones, while the track in Deck A is playing over your speakers.
- ▶ If you do not want to pre-listen via the opposite deck, you can also utilize another channel pair for the preview deck of TRAKTOR.



You can find more and detailed descriptions about the TRAKTOR software in your TRAKTOR product's user manual.

10. Troubleshooting

The information provided in this chapter should help you to solve most of the problems that you may encounter while you are using the AUDIO 4 DJ USB 2.0 audio interface.

10.1 Solving Hardware-related Problems

NATIVE INSTRUMENTS hardware products meet the highest professional standards. All products are tested extensively in real life situations during the development phase. However, if you encounter any problems with your hardware, please follow these steps for troubleshooting:

- ▶ Verify that you have installed the latest driver and the latest software update.
- ▶ Check the NATIVE INSTRUMENTS website for information.
- ▶ Make sure that the AUDIO 4 DJ hardware is connected to an USB 2.0 port of your computer.
- ▶ Make sure you are connecting directly to an USB port of the computer and not through an USB hub.
- ▶ Try another USB cable.
- ▶ Disconnect any other USB devices from the computer (except keyboard/mouse).
- ▶ Try using any other USB ports on your computer.

If none of these tips helps, please contact our Technical Support team. The contact information is available under the following URL:

www.native-instruments.com/contactinfo

In case the AUDIO 4 DJ needs to be returned, the Technical Support team at NATIVE INSTRUMENTS will assign you an RA (Return Authorization) number that is required to handle your return.

Packages returned without this RA number will not be correctly identified and as such might not be processed properly.



Please contact our Technical Support team prior to returning any item.

10.2 How to check if the AUDIO 4 DJ Driver is installed correctly

10.2.1 How to check if the AUDIO 4 DJ driver is installed correctly in Windows

Open *Start > All Programs > Native Instruments > Audio 4 DJ Driver*.

There you will find the helper applications Audio Statistics, Control Panel and the Settings Tool. Make sure that the device is connected to the computer and open the Control Panel. If all the drop-down menus are grayed out (i.e., there are no presets in the preset drop-down list, no sample rate values to choose from) there must be something wrong with the connection. If the *AUDIO 4 DJ Driver* entry in the NATIVE INSTRUMENTS folder of the Start Menu is missing, the driver is most probably not installed at all.

- ▶ If the driver is not installed, you can install it using the setup program as described in chapter [4.1 “Installation of the AUDIO 4 DJ.”](#)
- ▶ If the driver is not recognized, check your USB 2.0 connection as described in chapter [10.3 “USB Troubleshooting.”](#)

As any other USB device, the driver installs exactly for one USB port. If you connect the AUDIO 4 DJ to another port, a standard Windows dialog opens in which you can install the driver to that port.

- ▶ If you have previously installed the driver on your computer once, Windows will find the right drivers itself.
- ▶ If you did not install the drivers on your computer, Windows will install the wrong drivers.
- ▶ If you do not know whether or not you have previously installed the drivers of the AUDIO 4 DJ to your computer, it is advisable, to start the setup program of the AUDIO 4 DJ. If the setup program states that it will first uninstall the drivers, you already have installed the drivers on your computer. In this case you can connect the device to any other USB port, and Windows will find the right driver when it installs the AUDIO 4 DJ on another USB port.

10.2.2 How to check if the AUDIO 4 DJ Driver is installed correctly in Mac OS X

In Mac OS X, look into the System Preferences for the *NATIVE INSTRUMENTS USB Audio Control Panel* icon. Open this control panel to see if the device is found. If no device is found, values will appear grayed out. If the *NATIVE INSTRUMENTS USB Audio Control Panel* icon is missing here, the driver is probably not installed at all.

- ▶ If the driver is not installed, you can install it using the setup program described in chapter [4.1 “Installation of the AUDIO 4 DJ.”](#)
- ▶ If the driver is not recognized, check your USB 2.0 connection as described in chapter [10.3 “USB Troubleshooting.”](#)

10.3 USB Troubleshooting

If you experience problems that may be caused by the USB connection between the AUDIO 4 DJ and your computer, check the following chapters first; several possible sources for USB issues are covered here.

10.3.1 USB 2.0 required

The AUDIO 4 DJ is an USB 2.0 interface and will not work at all on an USB 1.0/1.1 port. In addition, although the minimum power specified for a USB 2.0 port is 500 mA, we have seen a few cases where the USB 2.0 ports on certain computers do not fulfill the minimum requirements and therefore do not meet the official USB 2.0 specification. In this case you may see a message saying that there is not enough power available to operate your device. In this case you might encounter crackles or it may not work at all.

10.3.2 Try another USB cable

A bad USB cable can be responsible for audio dropouts and other connectivity problems. It is highly recommended that you try using a different cable if you are experiencing difficulties; make sure to use a cable bearing the official USB logo.

10.3.3 Using a powered USB 2.0 hub

It is best to connect the AUDIO 4 DJ directly to a USB 2.0 port on your computer. However, in certain situations a powered USB hub can also be a solution if you are having problems connecting your AUDIO 4 DJ to an onboard USB port. In this case you should avoid connecting other devices to the hub if possible, as each bus-powered device takes its share from the total amount of power available.

10.3.4 Recommended USB-ports (MacBook Only)

As general rule of thumb, do not use the right hand USB port on a MacBook Pro: This port is connected to the same root hub as the trackpad. With the AUDIO 4 DJ plugged into the right port, you can encounter audio problems like clicks or dropouts whenever the trackpad is reactivated from standby mode.

MacBook Pro recommended USB port(s)

For the following laptops the use of USB audio devices on the right-hand USB port is not recommended:

- ▶ MacBook Pro 15" 1.67GHz Intel Core Duo and Core 2 Duo
- ▶ MacBook Pro 15" 1.83GHz Intel Core Duo and Core 2 Duo
- ▶ MacBook Pro 15" 2.0GHz Intel Core Duo and Core 2 Duo
- ▶ MacBook Pro 15" 2.16GHz Intel Core Duo and Core 2 Duo
- ▶ MacBook Pro 15" 2.33GHz Intel Core 2 Duo
- ▶ MacBook Pro 17" 2.16GHz Intel Core Duo and Core 2 Duo
- ▶ MacBook Pro 17" 2.16GHz Intel Core 2 Duo

The 15" MacBook Pro models have 1 USB port on the left side, and one USB port on the right side.

The 17" MacBook Pro models have 2 USB ports on the left side, and one USB port on the right side.

Due to the current USB configuration of the MacBook Pro under OS X, use of USB audio devices is supported on the left-hand USB ports only (the port or ports next to the power adapter cable). Use of audio devices on the right-hand USB port is not advised because it may cause audio interrupts and/or dropped samples.

However, the use of an iLok dongle on the right-hand port has been qualified and is fully supported.

MacBook 13.3" recommended USB port

For the following laptops the use of USB audio devices on the USB port closest to the screen is not recommended:

- ▶ MacBook 13" White 1.83 GHz Intel Core Duo and Core 2 Duo
- ▶ MacBook 13" White 2.0 GHz Intel Core Duo and Core 2 Duo
- ▶ MacBook 13" White 2.16 GHz Intel Core 2 Duo
- ▶ MacBook 13" Black 2.0 GHz Intel Core Duo and Core 2 Duo
- ▶ MacBook 13" Black 2.16 GHz Intel Core 2 Duo

There are 2 USB ports on the left side of the MacBook models listed above.

Due to the current USB configuration of the MacBook under OS X, the use of USB audio devices is supported on the front USB port only (the port farthest away from the screen). Use of audio devices on the rear USB port is not recommended, because it may cause audio interrupts and/or dropped samples.

However, the use of an iLok dongle on the rear port has been qualified and is fully supported.



These USB port recommendations are specific to USB audio devices only. USB keyboard and control surface products do not have a recommended USB port at this time.



These USB port recommendations are specific to USB audio devices only. USB keyboard and control surface products do not have a recommended USB port at this time.

10.3.5 Disable USB Energy Saving Mode (Windows only)

If the AUDIO 4 DJ is causing crashes or performing badly on a Windows machine, disable power management to the USB hubs first; XP turns this on by default.

To disable power management for USB hubs, open the device manager (*Control Panel > System > Hardware*) and right-click a USB hub to bring up its properties. On the power management page, uncheck all boxes. Repeat for each hub and reboot.

10.3.6 Update the Driver

- ▶ Click on the AUDIO 4 DJ logo in the Settings Tool to check the driver version number and verify that you are using the latest driver.
- ▶ Check the Native Instruments website regularly for updates of the AUDIO 4 DJ driver.

10.4 How to avoid Ground Loops

Ground loops are a common problem within any environment where multiple electrical devices are connected to the same power circuit. In complex setups the cause(s) of the noise can be difficult to find. Ground loops are perceived usually as a hum or buzz in your audio signal, but this can also transmit and amplify other sounds from the devices connected to the circuit. For example, one very common problem is that you hear internal clicking sounds created by your computer.

The cause of the noise is usually the computer and its internal devices, or devices connected to the computer like external hard drives. (Note that even if the power supply of your notebook computer is not connected, your setup may still be vulnerable to ground noise from an external device with its own power supply.) The cause can also be any other device (such as a radio or television).

The reason why this noise is present at the monitor speakers input has to do with a loop in the setup of your electrical and audio cable connections. Most likely this loop occurs through the ground of one or more of these cables. With this in mind, the following points should help to eliminate the ground loop.

10.4.1 Try to eliminate the loop

- ▶ As a first step, always connect your devices to the same power outlet (e.g. with a multi-outlet power strip).
- ▶ Assuming that you have connected your audio interface, the next troubleshooting step is to disconnect all devices that you are not currently using, but not the amplifier and/or speakers. This also applies to other peripheral devices you may have connected to your computer (external data storage, CD burners and especially radio or television cables). In case the ground loop disappeared, you can add the devices one after the other to see with the connection of which device it reappears.
- ▶ Another check is to see if the amplifier or active monitors create the ground loop. Monitor your audio signal from the headphones output of the AUDIO 4 DJ via a headphone. Therefore the amplifier or the active monitors need to be physically disconnected from the AUDIO 4 DJ. In case the ground loop disappears, you need to lift the ground on your amplifier or the active monitors. Contact the manufacturer of your amplifier/speakers before lifting the ground to find out if ground lifting is supported on your device.
- ▶ On laptops, low quality power supplies often lead to ground loop noise. Run your laptop on its battery, only to see if the ground loop disappears. In case the ground loop disappears, you need to lift the ground on your laptop. Contact the manufacturer of your laptop before lifting the ground to find out if ground lifting is supported on your device.
- ▶ On desktop computers, the computer monitor (screen) might cause the ground loop. Turn your monitor off and disconnect its power supply while you hear the ground loop. In case the ground loop disappears, you need to lift the ground on your monitor. Contact the manufacturer of your monitor before lifting the ground to find out if ground lifting is supported on your device.

10.4.2 Break the loop with a DI box (AUDIO 4 DJ only)

If you cannot fix the ground noise problem by disconnecting equipment, you still have the possibility of using a DI (direct input) box after the AUDIO 4 DJ outputs. Most of these boxes have a ground lift switch on them. This can be used to break the ground loop and eliminate the noise.

10.5 What is Latency?

As with any digital device (including hardware signal processors) that converts audio to data and back again, a computer adds a certain amount of delay (“latency”) when processing audio signals. Fortunately, with today’s computers and low-latency sound card drivers, this delay can be so small that you cannot hear it (as example: 3 milliseconds is about the same delay caused by moving your head one meter further away from a speaker). However, typical computers are generally not set up for low latency; attempting to play in real time with the AUDIO 4 DJ will probably prove unsatisfying due to the delay.

Any computer-based audio system has some delay between the audio input and output. As a result, if you are playing a MIDI keyboard through the AUDIO 4 DJ, you may hear an annoying delay between the time you hit a key and the time you hear the sound. It is easy to understand that this latency has be kept to a minimum in order to make instruments and DJ applications playable. Even the most powerful computer can only do a certain number of calculations per second; generating and processing sounds demands a lot from a computer. On the other hand, it is important to minimize any computer-based delays in order to achieve a playing experience without annoying delays in sound playback.

Fortunately, three main factors make delays virtually insignificant, assuming you have a suitable computer setup.

- ▶ Today’s multi-gigahertz computers allow for very low latencies.
- ▶ The AUDIO 4 DJ includes drivers optimized for low latency.
- ▶ The AUDIO 4 DJ has been optimized to work as efficiently as possible.

10.5.1 How low can you go?

1.5 ms of latency approaches the theoretical minimum, because it will always take some time to convert a human action into something digital and then to convert the digital action back to analog sound. However, note that ultra-low latency settings (or higher sampling rates) make your computer work harder, which can affect the performance. So, here are some tips on living with latency.

10.5.2 About Samples and Buffers

Audio cannot be handled continuously by a computer, but has to wait its turn while other operations are being carried out. As a result, sound cards create a “buffer,” which can hold a certain number of samples, where data can be stored and released as needed to create a smooth flow of data. An analogy would be if you had a hose that does not deliver water continuously, but in bursts. So you use a holding tank to store the water coming in from the hose and have a valve in the tank that releases a steady amount of water in a smooth, continuous flow.

If the tank (buffer) is large, then you can store more water in case the hose goes dry for a bit. But it will take longer to fill the bucket, which is equivalent to latency. A smaller tank takes less time to fill, but the hose needs to deliver water on a pretty continuous basis.

All ASIO audio interfaces and sound cards include a Control Panel in which you can adjust latency. This may be given as the number of samples per buffer or just milliseconds.

The AUDIO 4 DJ provides you with six predefined settings (in milliseconds) to choose from and the option to user-define the values.

Open Start > All Programs > Native Instruments > Audio 4 DJ Driver > Control Panel.

Read more about the CONTROL PANEL of the AUDIO 4 DJ in chapter [7.2 “Understanding the Control Panel”](#).

10.5.3 Warning: Different Types of ASIO

It is extremely important to use the ASIO driver written for the AUDIO 4 DJ. There are also generic ASIO drivers, typically called (for Windows) ASIO DirectX Full Duplex Driver or ASIO Multimedia Driver. If you're not sure which one to use, try them all, and choose the one with the lowest latency. There should be an obvious difference when you use the correct AUDIO 4 DJ driver.

10.6 Using the AUDIO 4 DJ with a Laptop

10.6.1 Check the Laptop's Latency

First you should check if your computer can handle real-time audio processing without audio dropouts. Dropouts can be caused by certain components in your computer. A software utility that can check your computer's suitability for audio processing is available at:

www.thesycon.de/deu/latency_check.shtml

There is no software installation required, just launch the tool after downloading.

With your audio interface disconnected, the tool will report if your laptop can handle real-time audio streaming without audio dropouts.

In case your computer is unable to handle glitch free audio processing, the tool will show you red latency bars and report this in the box on the bottom. Run it with both settings – audio interface connected and disconnected – to find out about your computer's capacities.

10.6.2 Avoid Shared Memory

In general it is not recommended to use laptops with shared-memory graphic cards for audio applications. A shared-memory graphic card accesses the same memory as the CPU. Other graphic cards have their own, dedicated memory, so that the main memory is reserved for other tasks (like audio processing). You will need memory and processing power available for your audio project.

10.6.3 Avoid battery usage

It is not recommended to run the laptop on its battery, as the computer might slow the clock rate of the CPU down.

10.6.4 Disable devices

First, disconnect additional hardware (printers, scanners etc.) that you do not need while you are working with your audio interface. Thus, the computer does not need to handle devices that are currently not being used.

Additionally, laptops often are equipped with built-in devices that tend to disturb audio processing. An example is a wireless LAN card. In case you experience serious dropouts, you might need to disable these devices while working with your audio interface.

Disable devices in Windows XP

Right-click on *My Computer > Properties > Hardware > Device Manager* to open the device manager. Double-click on a device to bring up its properties dialog. On the bottom of this pane you can disable the device via the drop-down menu. Deactivate it and hit *OK*. You should see a red cross over the device, which means that it has been deactivated.

Common built-in devices are: network adapters, wireless LAN cards, Bluetooth ports, infrared ports, printer ports etc. Try to disable the network adapter and wireless LAN card first, as they are the most common problem causing devices in audio processing.

Make sure that you do not disable devices that are indispensable for your laptop to work properly!

Here is a list of devices that you should not deactivate: System timer, Keyboard, System CMOS/real time clock, Microsoft ACPI-Compliant System, Numeric data processor, Primary IDE Channel, Secondary IDE Channel, Graphics Controller, Ultra ATA Storage Controllers.

Disable devices on Macintosh OS X

If you have a wireless LAN card installed and Bluetooth running, turn them off while you are using the AUDIO 4 DJ (you can turn this off in the Mac OS X Finder's menu bar).

10.7 Clicks, Distortion and other audio interferences

10.7.1 Check your system specifications

If your system does not meet the requirements, you may experience pops, clicks and/or distortion in audio playback.

For latest system requirements, compatibility and support of the latest operating systems please see our website at:

www.native-instruments.com/audio4dj

10.7.2 Raise the audio latency

- ▶ Open the Control Panel of the AUDIO 4 DJ (PC) or the control panel of your audio application (Mac OS X).
- ▶ Choose a preset with higher latency or, if using user defined settings, raise the USB and Audio latency.
- ▶ Keep raising the latency until you do not encounter any more pops/ clicks and/or distortion.

10.7.3 Test with the built-in soundcard

- ▶ Disconnect the AUDIO 4 DJ.
- ▶ Connect your speaker setup to the built-in (onboard) sound card of your computer.
- ▶ Play back a track in your standard playback application, e.g. iTunes or Windows Media Player.
- ▶ If playback is fine with your built-in (onboard) sound card, there may be an IRQ conflict (Windows only) present on the slot or port the AUDIO 4 DJ is connected to. Attach the AUDIO 4 DJ to another USB port.

10.7.4 Physically re-configure the AUDIO 4 DJ

Try different USB ports

Connect the AUDIO 4 DJ to another USB port on your computer. Try all USB ports on your computer until you find one that works best.

Check your IRQs (Windows only)

IRQ stands for Interrupt Request. This is the way in which Windows allocates resources to the various devices and ports in your system. If your AUDIO 4 DJ is on a port that shares an IRQ with other devices, you may have an IRQ conflict. This means your sound card is not receiving the resources it needs to function properly. Here is how you detect an IRQ conflict.

- ▶ Open *Start > Run* and type the word *msinfo32* and press OK.
- ▶ Your system information window will appear.
- ▶ Click the *Plus (+)* sign next to **HARDWARE**.
- ▶ Click on **IRQs**.
- ▶ Your IRQs will be displayed in the window to the right.
- ▶ Your USB port will show up as **USB universal host controller** in the list.
- ▶ If the IRQ number listed next to any of these ports is sharing with other devices in your system, you may have an IRQ conflict. Attach the AUDIO 4 DJ to another USB port.
- ▶ If this does not work, and your computer is a desktop, you may be able to change the IRQ allocation from within the system BIOS (depending on your motherboard). However, with most laptops it is not possible to change IRQ allocation. You may need to reinstall your operating system for a better IRQ configuration.

11. Optimizing your Computer

The following chapter collects some “tuning” tips that may help to improve your computer’s performance. While faster computers may not need any of these tips, they can be essential for getting good results on a computer with technical specifications on the lower end of the system requirements.

11.1 Windows XP Optimization

This chapter collects tips for tweaking the performance of a Windows PC.

11.1.1 Processor Scheduling

- ▶ Open *Start > Control Panel* and double-click *System*.
- ▶ Choose *Advanced*.
- ▶ Under *Performance*, choose *Settings*.
- ▶ Choose the *Advanced* tab.
- ▶ Under *Processor Scheduling*, select *Background Services*.

11.1.2 Visual effects

- ▶ Open *Start > Settings > Control Panel* and double-click *SYSTEM*.
- ▶ Choose *Advanced > Visual Effects* tab.
- ▶ Choose *Adjust for best performance*.

11.1.3 Turn off desktop background image

- ▶ Right-/ Ctrl-Click *Desktop > Properties > Desktop*.
- ▶ At the top of the list under *Background*, choose *None*.

11.1.4 Disable screen saver

- ▶ Right-/ Ctrl-Click *Desktop > Properties > Screen Saver* tab.
- ▶ Drop down the screen saver menu and choose *None*.

11.1.5 Disable Fast User Switching

- ▶ Choose *Start > Settings > Control Panel > User Accounts*.
- ▶ Click on Change the Way Users log On or Off and unselect Use Fast User Switching.

11.1.6 Switch off Power Schemes

- ▶ Choose *Start > Control Panel > Power Options*.
- ▶ Set *Power Schemes* to *Always On*.
- ▶ Drop down the menu for *Turn off Monitor* and select *Never*.
- ▶ Drop down the menu for *Turn off hard discs* and select *Never*.

11.1.7 Turn off Hibernation

- ▶ Open *Start > Control Panel* and double-click POWER OPTIONS.
- ▶ Choose the Hibernate tab and unselect Enable Hibernation.

11.1.8 Disable system sounds

- ▶ Open *Start > Control Panel* and double-click Sounds and Audio Devices.
- ▶ Choose the Sounds tab.
- ▶ Drop down the sound scheme menu and select *None*.

11.1.9 Disable System Restore

- ▶ Open *Start > Control Panel > System*.
- ▶ Click on the System Restore tab.
- ▶ Select *Turn off System Restore on all Drives*.

11.2 Macintosh Optimization

This chapter collects tips for tweaking the performance of a Macintosh computer.

11.2.1 Log off additional users

If you have set up multiple user accounts on your computer, make sure your user account is the only one logged in by logging off any additional users.

11.2.2 Turn off the screen saver

- ▶ Open *System Preferences > Energy Saver*.
- ▶ Click on Show Details to display the energy saver details.
- ▶ Click on Sleep.
- ▶ Set the slider for Put the computer to sleep when inactive to *Never*.
- ▶ Set the slider for Put the display to sleep when inactive to *Never*.

11.2.3 Do NOT put hard drive(s) to sleep

- ▶ Open *System Preferences > Energy Saver*.
- ▶ Click on “Show Details” to display the energy saver details.
- ▶ Click on “Sleep”.
- ▶ Uncheck “Put the hard disk(s) to sleep when possible.”

11.2.4 Make the desktop static

- ▶ Open *System Preferences > Desktop & Screen Saver*.
- ▶ Choose the “Desktop” tab.
- ▶ Choose an image for your background.
- ▶ Unselect “Change Picture.”

11.2.5 Lock the Dock

- ▶ Open *System Preferences > Dock*.
- ▶ Drop down the menu next to *Minimizing Using* and select *Scale Effect*.
- ▶ Unselect “Animate opening applications” and “Automatically hide and show the Dock”.

11.2.6 Dismantle Dashboard (10.4 Tiger and above)

Search the internet for OS X Dashboard kill applications. There are several to choose from. Some are simple applications that you double-click to stop and start the Dashboard, others are lines of code to be pasted into the Terminal.

11.2.7 Turn off Sharing

- ▶ Open *System Preferences > Sharing*.
- ▶ Click on the SERVICES tab.
- ▶ Unselect *Personal File Sharing* and *Internet Sharing* (or *Personal Web Sharing*).

11.2.8 Shut down all other applications

- ▶ If you have any other applications running, shut them down while using your audio application.
- ▶ More tips on optimizing your operating system can be found on:
www.native-instruments.com/index.php?id=niosxtut

12. Getting Help

NATIVE INSTRUMENTS provides various sources of support and information to registered users.

12.1 Readme/Knowledge Base/Online Support

12.1.1 Readme

Always read the “Readme” file found on the installation CD. It contains important information and all last minute changes that could not be included in this manual.

12.1.2 Knowledge Base

You can access the Knowledge Base at

www.native-instruments.com/knowledgebase

To search the Knowledge Base you have to log into your user account first. For more information about registering products please see chapter [5 “Registration and Product Authorization”](#).

12.1.3 Online Support

You can reach the Online Support via

www.native-instruments.com/productsupport

The following form will ask you for all information about your hardware and software environment, to better facilitate the information to our support team. The entries you make are furnished with cookies, so they should automatically be reproduced when you enter a second support request.

In your communication with the support team keep in mind that you should offer as much information as possible about your hardware, your operating system and the software you are running to give the possibility to help you.

In your description, you should mention:

- ▶ How to reproduce the problem
- ▶ What you have already done to try to fix the problem
- ▶ A description of your setup, including all hardware and software involved
- ▶ The exact model and technical specifications of your computer

12.2 Forum

In the NATIVE INSTRUMENTS User Forum you can discuss directly with other users and with experts from NATIVE INSTRUMENTS that moderate the forum.

The AUDIO 4 DJ Forum's address is:

www.native-instruments.com/forum/forumdisplay.php?f=170

12.3 Updates

Whenever you encounter problems, you should also check if you have the latest software installed. Click on the AUDIO 4 DJ logo in the Control Panel to display the version number. Updates are released regularly to fix known problems and to constantly improve the software.