Windows Audio Drivers Guide

Version 8.0.4

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003, 96 I/O, 96i I/O, 192 Digital I/O, 192 I/O, 888|24 I/O, 882|20 I/O, 1622 I/O, 24-Bit ADAT Bridge I/O, AudioSuite, Avid, Avid DNA, Avid Mojo, Avid Unity, Avid Unity ISIS, Avid Xpress, AVoption, Axiom, Beat Detective, Bomb Factory, Bruno, C|24, Command|8, Control|24, D-Command, D-Control, D-Fi, D-fx, D-Show, D-Verb, DAE, Digi 002, DigiBase, DigiDelivery, Digidesign, Digidesign Audio Engine, Digidesign Intelligent Noise Reduction, Digidesign TDM Bus, DigiDrive, DigiRack, DigiTest, DigiTranslator, DINR, D-Show, DV Toolkit, EditPack, Eleven, HD Core, HD Process, Hybrid, Impact, Interplay, LoFi, M-Audio, MachineControl, Maxim, Mbox, MediaComposer, MIDI I/O, MIX, MultiShell, Nitris, OMF, OMF Interchange, PRE, ProControl, Pro Tools M-Powered, Pro Tools, Pro Tools|HD, Pro Tools LE, QuickPunch, Recti-Fi, Reel Tape, Reso, Reverb One, ReVibe, RTAS, Sibelius, Smack!, SoundReplacer, Sound Designer II, Strike, Structure, SYNC HD, SYNC I/O, Synchronic, TL Aggro, TL AutoPan, TL Drum Rehab, TL Everyphase, TL FauxIder, TL In Tune, TL MasterMeter, TL Metro, TL Space, TL Utilities, Transfuser, Trillium Lane Labs, Vari-Fi Velvet, X-Form, and XMON are trademarks or registered trademarks of Avid Technology, Inc. Xpand! is Registered in the U.S. Patent and Trademark Office. All other trademarks are the property of their respective owners.

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Documentation Feedback

At Avid, we are always looking for ways to improve our documentation. If you have comments, corrections, or suggestions regarding our documentation, email us at ***techpubs@avid.com***.

Contents

Part I Windows Audio Drivers

Chapter 1. Introduction 3

System Requirements and Compatibility 4

Conventions Used in This Guide 5

About www.avid.com 5

Chapter 2. Avid Audio Drivers 7

Avid Audio Driver Capabilities 7

Audio Driver Control Panel 8

Chapter 3. Digidesign ASIO Driver (Pro Tools HD Only) 11

Digidesign ASIO Driver Capabilities 11

ASIO Driver Control Panel 11

Chapter 4. WaveDriver Windows System Audio Driver (Pro Tools HD Only) 15

WaveDriver Capabilities 15

Configuring WaveDriver for Using iTunes 16

Configuring WaveDriver for Windows Media Player and Other Programs 16

Adding Third Party Applications to the Application Access List 17

Part II Mbox 2 Pro Audio Drivers

Chapter 5. Introduction (Mbox 2 Pro Only) 21

Introduction 21

System Requirements and Compatibility 21

Mbox 2 Pro Driver Control Panel 22

Chapter 6. Digidesign ASIO Driver (Mbox 2 Pro Only) 25

Introduction 25

ASIO Driver Control Panel 25

Chapter 7. DirectSound Windows System Audio Driver (Mbox 2 Pro Only) 29

Introduction 29

Configuring DirectSound Driver Settings 29

Configuring DirectSound Driver for Using iTunes 30

Configuring DirectSound Driver for Windows Media Player and Other Programs 30

Part I: Windows Audio Drivers

Chapter 1: Introduction

Audio drivers for Windows let you use your Pro Tools hardware interface with third-party applications that support the ASIO Driver or WaveDriver MME (Multimedia Extension) standards.

The following Pro Tools® system interfaces are supported:

- Pro Tools HD® audio interfaces
- Avid Mbox
- Avid Mbox Mini
- Avid Mbox Micro
- Avid Mbox Pro
- Eleven Rack
- 003®
- 003 Rack
- 003 Rack+
- Digi 002®
- Digi 002 Rack
- Mbox® 2
- Mbox 2 Mini
- Mbox 2 Micro

For Mbox 2 Pro systems, see Part 2, "Mbox 2 Pro Audio Drivers."

The original Mbox is not supported by Mbox family audio drivers.

Installation

Drivers are automatically installed when you install Pro Tools 8.0.4 or higher.

Check our website (www.avid.com) periodically to acquire any updated drivers for your system as they become available.

For instructions on installing Pro Tools, see the User Guide or Setup Guide that came with your system.

Pro Tools LE

After installing Pro Tools LE software, new control panels will appear on your system for your interface and other Avid interfaces (such as Eleven Rack). This lets you have a friend bring their Eleven Rack or other audio interface over to your studio and use it with your system right away, without having to install additional software.

Pro Tools HD

Pro Tools HD software only installs drivers for your Pro Tools HD hardware. You can add drivers for Eleven Rack and other interfaces by downloading their installers from our website (www.avid.com).

Standalone Installers for Audio Drivers

Standalone driver installers for your interface are available on our website (www.avid.com). Download these installers and install the drivers if you want to do any of the following:

- If you want to use your interface with a supported software application (such as iTunes) but do not want to install and use Pro Tools on your computer.

– or –

- If you want to update to a newer version of the driver for your interface. Avid routinely provides new drivers online to improve your interface's capabilities for with Pro Tools *and* other supported software applications. For example, to support new or updated OS (operating system) versions, new interfaces, or to improve the performance between your interface and software.

Driver Installers for Pro Tools LE Interfaces (Excluding Mbox 2 Pro)

For Pro Tools LE interfaces (excluding Mbox 2 Pro), go to our website (www.avid.com) and download the Avid Audio Drivers Setup installer.

⚠ *These audio drivers are not compatible with Pro Tools LE versions lower than 8.0.4. If you are running Pro Tools LE 8.0.3 or lower, do not use these drivers. Instead, use the drivers that came with your Pro Tools Installer disc.*

Driver Installers for Pro Tools HD

For Pro Tools HD systems, go to our website (www.avid.com) and download the standalone installers for the Digidesign ASIO Driver and/or the Digidesign WaveDriver. Versions of these drivers are installed automatically when you install Pro Tools 8.0.4.

System Requirements and Compatibility

Avid can only assure compatibility and provide support for hardware and software it has tested and approved.

For complete system requirements and a list of qualified computers, operating systems, hard drives, and third-party devices, visit:

www.avid.com/compatibility

Conventions Used in This Guide

All of our guides use the following conventions to indicate menu choices and key commands:

Convention	Action
File > Save	Choose Save from the File menu
Control+N	Hold down the Control key and press the N key
Control-click	Hold down the Control key and click the mouse button
Right-click	Click with the right mouse button

The names of Commands, Options, and Settings that appear on-screen are in a different font.

The following symbols are used to highlight important information:



User Tips are helpful hints for getting the most from your system.



Important Notices include information that could affect your data or the performance of your system.



Shortcuts show you useful keyboard or mouse shortcuts.



Cross References point to related sections in this guide and other Pro Tools guides.

About www.avid.com

The Avid website (www.avid.com) is your best online source for information to help you get the most out of your Pro Tools system. The following are just a few of the services and features available.

Product Registration Register your purchase online.

Support and Downloads Contact Avid Customer Success (technical support); download software updates and the latest online manuals; browse the Compatibility documents for system requirements; search the online Knowledge Base or join the worldwide Pro Tools community on the User Conference.

Training and Education Study on your own using courses available online or find out how you can learn in a classroom setting at a certified Pro Tools training center.

Products and Developers Learn about Avid products; download demo software or learn about our Development Partners and their plug-ins, applications, and hardware.

News and Events Get the latest news from Avid or sign up for a Pro Tools demo.

Chapter 2: Avid Audio Drivers

The Avid Audio Drivers are multi-client, multi-channel sound drivers that allow third-party audio programs that support the ASIO Driver or WaveDriver MME/DirectX (Multimedia Extension) standards to record and play back through qualified Pro Tools audio interfaces.

Full-duplex playback of 24- and 16-bit audio are supported at sample rates up to 96 kHz, depending on your Avid hardware and third-party program used.

Multi-client support lets more applications utilize Pro Tools hardware in more combinations. These drivers also provide user-selectable Error Suppression, for greater flexibility when optimizing performance on slower or older systems.

Avid Audio Driver Capabilities

Avid Audio Drivers can be used with the following Pro Tools hardware:

- Avid Mbox
- Avid Mbox Mini
- Avid Mbox Micro
- Avid Mbox Pro
- Eleven Rack
- 003, 003 Rack, and 003 Rack+
- Digi 002 and Digi 002 Rack
- Mbox 2
- Mbox 2 Mini
- Mbox 2 Micro

Avid Audio Drivers provide up to 18 channels of input and output, depending on your interface:

Mbox Family

- Up to 8 channels of I/O with Avid Mbox Pro
- Up to 4 channels of input and 2 channels of output with Mbox 2 and Avid Mbox
- Up to 2 channels of I/O with Mbox 2 Mini and Avid Mbox Mini
- 2 channels of output with Mbox 2 Micro and Avid Mbox Micro

003 Family

- Up to 18 channels of I/O with 003, 003 Rack, and 003 Rack+, Digi 002, and Digi 002 Rack

Eleven Rack

- Up to 8 channels of input and 6 channels of output with Eleven Rack

Limitations of the Pro Tools Audio Drivers

Pro Tools Audio Drivers cannot be used with Pro Tools LE versions prior to 8.0.4 (this includes Pro Tools 8.0.3 and any CS releases). Only install these drivers on systems that do not have Pro Tools installed, unless it is Pro Tools version 8.0.4 or later.



For the latest third-party drivers for Pro Tools hardware, as well as any known issues, visit www.avid.com/compatibility.

Audio Driver Control Panel

Configuring Driver settings can be done within some third-party ASIO-compatible client applications.

Accessing the Pro Tools Audio Driver Settings

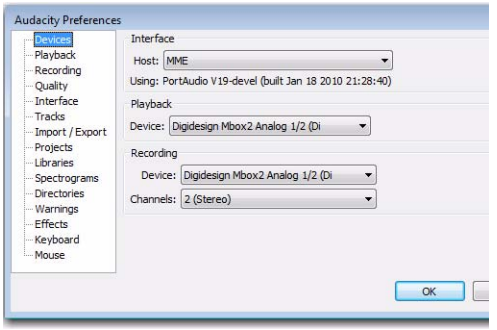
To access the ASIO Driver Control Panel from a third-party application:

- Refer to your program's documentation.

For example, with Ableton Live, choose Options > Preferences, then click the Audio button. Use the "Driver Type" or "Host" (or other) selector to choose MME or ASIO, then configure the available parameters as needed.



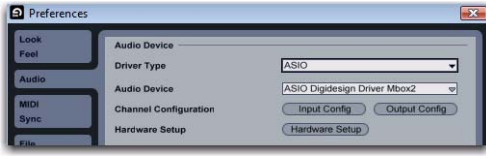
Audio setup in Ableton Live



Audio setup in Audacity

ASIO Settings

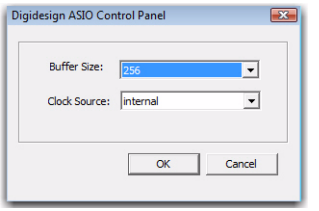
When the chosen Driver Type is ASIO, your device becomes selected as the current Audio Device (or other device), and settings appear for you to configure your hardware. Available settings vary depending on the client application.



ASIO settings in Ableton Live

Using the ASIO Control Panel

From the Driver Control Panel, you can change the Buffer Size and Clock Source settings for your hardware.



ASIO Control Panel

Buffer Size

You may select from the following buffer sizes (depending on your hardware):

- 128 samples
- 256 samples
- 512 samples
- 1024 samples
- 2048 samples

◆ Small buffers have the advantage of low latency in the record monitor path. (Latency is the time delay between a signal entering the audio inputs and leaving the outputs during recording.)

◆ Larger buffers have the advantage of making the ASIO Driver more immune to audio dropouts during playback and recording.

In some ASIO-compatible audio programs, performing various tasks will interrupt the ASIO Driver and may result in clicks and pops in audio playback or recording. Choosing medium or large buffers (such as 256, 512, or 1024) can help alleviate this problem.

Changing the Buffer Size for the Driver does not affect the H/W Buffer Size settings in the Pro Tools Playback Engine dialog.

For more information on the Hardware Setup dialog, see the User Guide or Setup Guide that came with your system.

Clock Source

Clock Source lets you choose Internal or S/PDIF (as available on your hardware). Use S/PDIF to clock your hardware when recording into Pro Tools from an external digital source through S/PDIF.

For more information on setting the Clock Source, see the User Guide or Setup Guide that came with your system.

MME Settings

When the chosen Driver Type is MME/DirectX, your device is selected as the current Audio Device (or other), and settings appear for you to configure your hardware. Available settings vary depending on the client application.



MME/DirectX settings in Ableton Live

Use the MME driver to let third-party audio programs that support the WaveDriver MME (Multimedia Extensions) standard to play back through qualified Pro Tools audio interfaces on Windows.

Playback of 24- and 16-bit audio is supported at sample rates up to 48 kHz, depending on your Pro Tools hardware and client application. The MME driver provides 2 channels of output on all systems.

Chapter 3: Digidesign ASIO Driver

(Pro Tools HD Only)

Digidesign ASIO Driver Capabilities

The Digidesign ASIO Driver is a single-client, multichannel sound driver that allows third-party audio programs that support the ASIO Driver standard to record and play back through qualified Pro Tools audio interfaces.

Full-duplex playback of 24- and 16-bit audio are supported at sample rates up to 96 kHz, depending on your hardware and ASIO program used.

The Digidesign ASIO Driver provides up to 8 channels of input and output, depending on your Pro Tools hardware:

- Up to 8 channels of I/O with Pro Tools HD



For the latest drivers for Pro Tools hardware, visit www.avid.com/compatibility.

Limitations

The ASIO Driver cannot be used with multiple applications at the same time. Only one application at a time can use the ASIO Driver. Be sure to disable the Windows system sounds. It is also recommended that you use a separate sound card for games or other general work.

ASIO Driver Control Panel

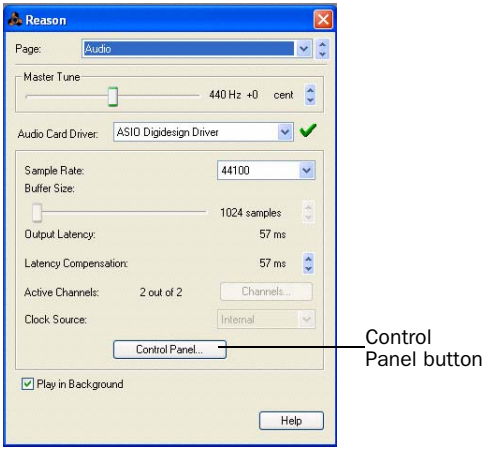
Configuring ASIO Driver settings can be done using the Digidesign ASIO Control Panel, which is accessed within some third-party ASIO-compatible client applications.

Accessing the Digidesign ASIO Driver Control Panel

To access the Digidesign ASIO Driver Control Panel from a third-party application:

- Refer to your program's documentation.

For example, with Propellerhead Reason, click the Control Panel button.



Setup Example, using Propellerhead Reason

The Digidesign ASIO Driver Control Panel cannot be accessed under the following circumstances:

- When Pro Tools is running.
- When playing or recording in an audio program that does not support the ASIO Driver.
- When using a third-party audio program that has an option to keep the ASIO Driver open even when you are not playing or recording. (You must close the audio program before you can open the ASIO Driver Control Panel.)

Using the ASIO Driver Control Panel

From the ASIO Driver Control Panel, you can change the Buffer Size setting or access the Hardware Setup dialog for your hardware.



Digidesign ASIO Control Panel

Buffer Size

You may select from the following buffer sizes (depending on your hardware):

- 128 samples
- 256 samples
- 512 samples
- 1024 samples
- 2048 samples

◆ Small buffers have the advantage of low latency in the record monitor path. (Latency is the time delay between a signal entering the audio inputs and leaving the outputs during recording.)

◆ Larger buffers have the advantage of making the Digidesign ASIO Driver more immune to audio dropouts during playback and recording.

In some ASIO-compatible audio programs, performing various tasks will interrupt the ASIO Driver and may result in clicks and pops in audio playback or recording. Choosing medium or large buffers (such as 256, 512, or 1024) can help alleviate this problem.

Changing the Buffer Size for the Driver does not affect the H/W Buffer Size settings in the Pro Tools Playback Engine dialog.

Device

The Device Type will always be set to your installed Pro Tools hardware.

Advanced Button

The Advanced button opens the Hardware Setup dialog for the hardware that you are using.



For more information on the Hardware Setup dialog, refer to the User Guide or Setup Guide that came with your system.

Chapter 4: WaveDriver Windows System Audio Driver (Pro Tools HD Only)

WaveDriver Capabilities

The Digidesign WaveDriver Windows System Audio Driver is a single-client, multichannel sound driver that lets third-party audio programs that support the WaveDriver MME (Multimedia Extensions) standard play back through qualified Pro Tools interfaces on Windows.

Playback of 24- and 16-bit audio are supported at sample rates up to 48 kHz, depending on your Pro Tools hardware and WaveDriver client application. The Digidesign WaveDriver provides 2 channels of output on all systems.

The Digidesign WaveDriver Window System Audio Driver supports all qualified Pro Tools HD interfaces.

Limitations

WaveDriver is not multi-client. Only one application at a time can use the WaveDriver. It is also recommended that you use a separate sound card for games or other general work. For third-party software synthesizers and samplers, or for any applications requiring full duplex input and output use the Digidesign ASIO Driver. Refer to Chapter 3, "Digidesign ASIO Driver (Pro Tools HD Only)."

For the latest third-party drivers for Pro Tools hardware, as well as any known issues, visit www.avid.com/compatibility.

Configuring WaveDriver for Using iTunes

In order to let iTunes for Windows play back through Pro Tools hardware under Windows XP, you must select the waveOut option in the QuickTime Player Audio settings.

The same basic steps apply for other Windows operating systems.

To configure WaveDriver as the iTunes default device:

1 Close all WaveDriver third-party applications (including iTunes).

2 Choose Start > Programs > QuickTime > QuickTime Player.

3 In QuickTime Player, choose Edit > Preferences > QuickTime Preferences.

4 In the QuickTime Settings window, click the Audio Tab.

5 Select the "Safe mode (waveOut only)" option, and click Apply.

6 Click OK to close the QuickTime Settings window.

7 Exit QuickTime Player.

8 Re-launch iTunes.

You may also need to add iTunes to the WaveDriver Application Access list. See "Adding Third Party Applications to the Application Access List" on page 17.

Configuring WaveDriver for Windows Media Player and Other Programs

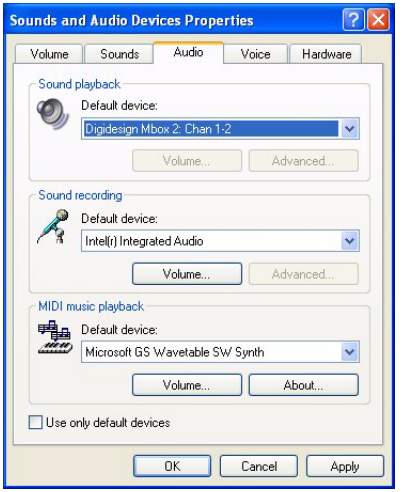
On Windows XP, the WaveDriver is configured in the Sounds and Audio Devices Control Panel (for programs that use the Windows Sound Playback Default Device, such as Windows Media Player), or as a preference in third-party WaveDriver client applications.

The same basic steps apply for other Windows operating systems.

To configure WaveDriver as the Windows Sound Playback Default Device:

1 Choose Start > Control Panel.

2 Double-click Sounds and Audio Devices.



Sounds and Audio Devices Control Panel

3 Click the Audio tab.

4 Select the Pro Tools hardware in the Sound Playback default device lists.

5 Close the Control Panel.

When you run Windows Media Player, it automatically outputs to your hardware.

You may also need to add your third party WaveDriver application to the WaveDriver Application Access list. See "Adding Third Party Applications to the Application Access List" on page 17.

To configure WaveDriver for a third party WaveDriver application:

- In the third-party application, select the Pro Tools hardware as the preference for your playback hardware. For details on setting this preference, refer to your program's documentation.

Adding Third Party Applications to the Application Access List

The Digidesign WaveDriver uses an Application Access list to control third party application access to the Pro Tools hardware. Some third party audio applications may not work with the WaveDriver unless they are included in this list.

For the latest instructions for adding and removing applications to the WaveDriver Application Access list, refer to the KnowledgeBase on our website (www.avid.com)

Modifying the Digidesign WaveDriver Application Access list requires editing the Windows System Registry. Because editing the Windows Registry can result in problems if not done correctly, make sure to carefully follow the instructions for adding and removing applications.

Part 2: Mbox 2 Pro Audio Drivers

Chapter 5: Introduction (Mbox 2 Pro Only)

Introduction

The Digidesign ASIO Driver and DirectSound Driver let you use your Digidesign Mbox 2 Pro hardware interface with third-party applications that support the ASIO Driver or DirectSound Driver standard.

This chapter provides information on the Mbox 2 Pro Control Panel, which can be used to configure either Mbox 2 Pro driver.

For specifications and additional configuration information specific to each Mbox 2 Pro driver, see Chapter 3, "Digidesign ASIO Driver (Pro Tools HD Only)" and Chapter 7, "DirectSound Windows System Audio Driver (Mbox 2 Pro Only)."

Installation

The Digidesign ASIO Driver and DirectSound Driver for Mbox 2 Pro are automatically installed when you install Pro Tools.

For instructions on installing Pro Tools, see the User Guide or Setup Guide that came with your system.

Standalone Digidesign Windows Audio Drivers

Digidesign Windows Audio Drivers can be installed on Windows systems that do not have Pro Tools installed. Use the standalone version of the Digidesign Windows Audio Drivers installer (Digidesign Audio Drivers Setup.exe), which is available from the Support and Downloads area of our website (www.avid.com).

System Requirements and Compatibility

The Digidesign ASIO Driver and DirectSound Driver can be used with Mbox 2 Pro on Pro Tools systems running on a qualified version of Windows 7, Windows XP and Windows Vista.

Avid can only assure compatibility and provide support for hardware and software it has tested and approved.

For complete system requirements and a list of qualified computers, operating systems, hard drives, and third-party devices, visit:

www.avid.com/compatibility

Mbox 2 Pro Driver Control Panel

Configuring ASIO Driver or DirectSound settings can be done using the Mbox 2 Control Panel, or within some third-party ASIO-compatible or DirectSound-compatible client applications.

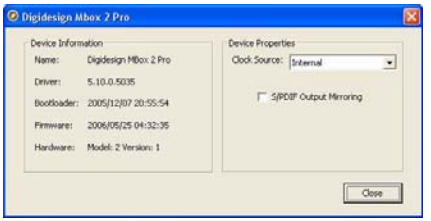
For additional configuration information specific to each driver, see Chapter 3, "Digidesign ASIO Driver (Pro Tools HD Only)" and Chapter 7, "DirectSound Windows System Audio Driver (Mbox 2 Pro Only)."

Accessing the Mbox 2 Pro Control Panel

The Mbox 2 Pro Control Panel can be accessed without opening a third-party application (from the Windows Control Panel folder), or from within some third-party programs.

To access the Mbox 2 Pro control panel without opening a third-party application:

- Choose Start > Control Panel > Digidesign Mbox 2 Pro.

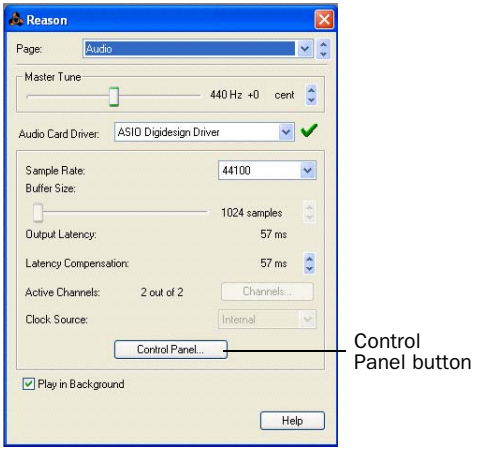


Digidesign Mbox 2 Pro Control Panel

To access the Mbox 2 Pro from a third-party application:

- Refer to your program's documentation.

For example, with Propellerhead Reason, click the Control Panel button.



Setup Example, using Propellerhead Reason

No Hardware Detected Dialog

If your hardware is not connected or cannot be detected, the No Hardware Detected dialog will open instead of the Mbox 2 Pro Control Panel.

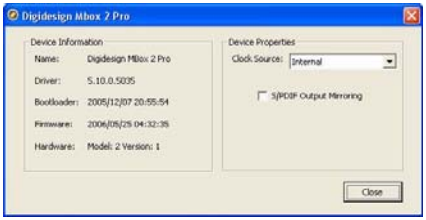


No Hardware Detected dialog

In this case, click OK, then check the FireWire (1394) connection between the computer and Mbox 2 Pro. If reconnecting the cable does not correct the problem, check that you have installed Pro Tools correctly.

Using the Mbox 2 Pro Control Panel

Use the Mbox 2 Pro Control Panel to identify your Digidesign hardware, check firmware, view or change the Clock Source, and enable S/PDIF mirroring of analog outputs 1 and 2.



Digidesign Mbox 2 Pro Control Panel

The ASIO Driver and DirectSound Driver use the same Mbox 2 Pro Control Panel.

⚠ *Changing the Clock Source in the Mbox 2 Pro Control Panel will not dynamically update the setting in the Pro Tools Hardware Setup or Session Setup window if it is open. The Pro Tools Hardware Setup and Session Setup window will update when you close and reopen them.*

Device Information Section

This area shows the hardware (Mbox 2 Pro) detected by the Control Panel, the firmware version of your Mbox 2 Pro, and other information.

Device Properties Section

Clock Source

This pop-up menu lets you choose the clock source for Mbox 2 Pro:

Internal Use this setting for normal playback of audio, or if you are recording audio through the analog inputs.

S/PDIF Use this setting if you are recording audio through the S/PDIF input.

⚠ *S/PDIF input is only available when S/PDIF is the Clock Source.*

Word Clock Use this setting to clock Pro Tools to a Word clock source connected to the Mbox 2 Pro Word Clock In port.

S/PDIF Output Mirroring

Check this box to set the S/PDIF output channels to always mirror analog outputs 1 and 2.

Chapter 6: Digidesign ASIO Driver

(Mbox 2 Pro Only)

Introduction

The Digidesign ASIO Driver is a single-client, multichannel sound driver that allows third-party audio programs that support the ASIO Driver standard to record and play back through your Mbox 2 Pro.

Full-duplex playback of 24- and 16-bit audio are supported at sample rates up to 96 kHz, depending on third party program used.

The Digidesign ASIO Driver will provide up to 4 channels of input and 2 channels of output with Mbox 2 Pro.

For the latest third-party drivers for Pro Tools hardware, as well as any known issues, visit www.avid.com/compatibility.

Limitations of the Digidesign ASIO Driver

The ASIO Driver cannot be used with multiple applications at the same time. Only one application at a time can use the ASIO Driver. Be sure to disable the Windows system sounds. It is also recommended that you use a separate sound card for games or other general work.

ASIO Driver Control Panel

On Windows XP, configuring ASIO Driver settings can be done using the Digidesign ASIO Control Panel, which is accessed within some third-party ASIO-compatible client applications.

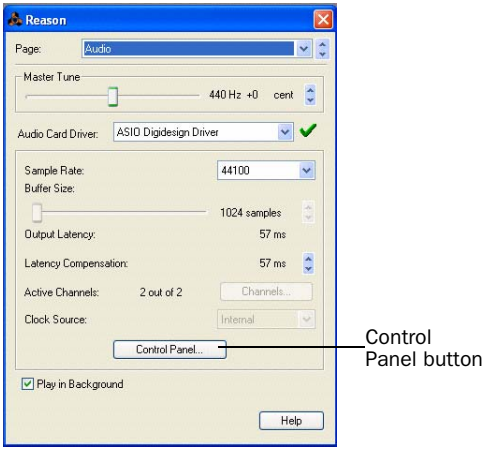
The same basic steps apply for other Windows operating systems.

Accessing the Digidesign ASIO Driver Control Panel

To access the Digidesign ASIO Driver Control Panel from a third-party application:

- Refer to your program's documentation.

For example, with Propellerhead Reason, click the Control Panel button.



Setup Example, using Propellerhead Reason

The Digidesign ASIO Driver Control Panel cannot be accessed under the following circumstances:

- When Pro Tools is running.
- When playing or recording in an audio program that does not support the ASIO Driver.
- When using a third-party audio program that has an option to keep the ASIO Driver open even when you are not playing or recording. (You must close the audio program before you can open the ASIO Driver Control Panel.)

Using the ASIO Driver Control Panel

From the ASIO Driver Control Panel, you can change the Buffer Size setting or access the Hardware Setup dialog for your Digidesign hardware.



Digidesign ASIO Control Panel

Buffer Size

You may select from the following buffer sizes (depending on your hardware):

- 128 samples
- 256 samples
- 512 samples
- 1024 samples
- 2048 samples

◆ Small buffers have the advantage of low latency in the record monitor path. (Latency is the time delay between a signal entering the audio inputs and leaving the outputs during recording.)

◆ Larger buffers have the advantage of making the Digidesign ASIO Driver more immune to audio dropouts during playback and recording.

In some ASIO-compatible audio programs, performing various tasks will interrupt the ASIO Driver and may result in clicks and pops in audio playback or recording. Choosing medium or large buffers (such as 256, 512, or 1024) can help alleviate this problem.

Changing the Buffer Size for the Digidesign ASIO Driver does not affect the H/W Buffer Size settings in the Pro Tools Playback Engine dialog.

Device

The Device Type will always be set to your installed Pro Tools hardware.

Advanced Button

The Advanced button opens the Hardware Setup dialog for the hardware that you are using.

For more information on the Hardware Setup dialog, refer to the User Guide or Setup Guide that came with your system.

Chapter 7: DirectSound Windows System Audio Driver (Mbox 2 Pro Only)

Introduction

The DirectSound Windows System Audio Driver is a multi-client, multichannel sound driver that allows third-party audio programs that support the DirectSound standard to play back and record through Mbox 2 Pro.

Playback and recording of 24- and 16-bit audio are supported at sample rates up to 96 kHz, depending on your DirectSound client application.

The DirectSound Driver provides up to 6 channels of input and 8 channels of output with Mbox 2 Pro systems.

For the latest third-party drivers for Pro Tools hardware, as well as any known issues, visit www.avid.com/compatibility.

Configuring DirectSound Driver Settings

On Windows XP, configuring DirectSound settings can be done using the Mbox 2 Pro Control Panel, or within most third-party DirectSound-compatible client applications.

The same basic steps apply for other Windows operating systems.

For information on the Mbox 2 Pro Control Panel, see "Mbox 2 Pro Driver Control Panel" on page 22.

Some third-party applications require additional configuration step (such as iTunes). See "Configuring DirectSound Driver for Using iTunes" on page 30 and "Configuring DirectSound Driver for Windows Media Player and Other Programs" on page 30.

For more information on configuring your program, refer to its documentation.

Configuring DirectSound Driver for Using iTunes

In order to let iTunes for Windows play back through Pro Tools hardware, you must select the waveOut option in the QuickTime Player Audio settings.

To configure DirectSound Driver as the iTunes default device:

1 Close all DirectSound Driver third-party applications (including iTunes).

2 Choose Start > Programs > QuickTime > QuickTime Player.

3 In QuickTime Player, choose Edit > Preferences > QuickTime Preferences.

4 In the QuickTime Preferences window, click the Audio Tab.

5 Select the "Safe mode (waveOut only)" option, and click Apply.

6 Click OK to close the QuickTime Settings window.

7 Exit QuickTime Player.

8 Re-launch iTunes.

Configuring DirectSound Driver for Windows Media Player and Other Programs

The DirectSound Driver is configured in the Sounds and Audio Devices Control Panel (for programs that use the Windows Sound Playback Default Device, such as Windows Media Player), or as a preference in third-party DirectSound Driver client applications.

To configure DirectSound Driver as the Windows Sound Playback Default Device:

1 Choose Start > Control Panel.

2 Double-click Sounds and Audio Devices.



Sounds and Audio Devices Control Panel

3 Click the Audio tab.

4 Select the Pro Tools hardware in the Sound Playback default device lists.

5 Close the Control Panel.

When you run Windows Media Player, it automatically outputs to your Digidesign hardware.

To configure DirectSound Driver for a third-party DirectSound Driver application:

- In the third-party application, select the Pro Tools hardware as the preference for your playback hardware. For details on setting this preference, refer to your program's documentation.