

Upgrading to Pro Tools 7.3

Version 7.3



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chapter 1

Introduction

This guide documents how to upgrade to Pro Tools® 7.3 for Pro Tools HD®, Pro Tools LE™, Pro Tools M-Powered™, and Pro Tools Academic™ systems on a Digidesign®-qualified Windows or Mac computer.

 *Before installing this version of Pro Tools, refer to the Read Me information included on the Pro Tools Installer disc.*

 *If you are configuring a new Pro Tools system, follow the complete hardware and software installation steps in the Getting Started Guide that came with your system.*

System Requirements

Pro Tools software can be used on a Pro Tools|HD, Pro Tools LE, Pro Tools M-Powered, or Pro Tools Academic system on a Digidesign-qualified Windows or Mac computer.

For complete system requirements, visit the Digidesign website (www.digidesign.com).

Compatibility Information

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

For a list of Digidesign-qualified computers, operating systems, hard drives, and third-party devices, refer to the latest compatibility information on the Digidesign website (www.digidesign.com).

chapter 2

Installing Pro Tools on Windows

This chapter explains how to install and configure Pro Tools for Pro Tools|HD, Pro Tools LE, Pro Tools M-Powered, and Pro Tools Academic systems on a Digidesign-qualified Windows computer.

For complete system requirements and compatibility information, visit the Digidesign website (www.digidesign.com).

▲ *Before installing this version of Pro Tools, refer to the Read Me information included on the Pro Tools Installer disc.*

Windows System Optimization

Before configuring your computer, make sure you are logged in as an Administrator for the account where you want to install Pro Tools. For details on Administrator privileges, refer to your Windows documentation.

Required Optimizations

To ensure optimum performance with Pro Tools LE, configure the following settings before you install Pro Tools hardware and software.

▲ *When you are finished changing Windows system settings, restart your computer.*

Enabling DMA

Enabling your computer's DMA (Direct Memory Access) frees up CPU bandwidth so the computer can do other Pro Tools tasks.

In most cases the DMA option will already be set correctly, as Windows XP detects and activates DMA mode by default.

To enable DMA for any IDE hard drives:

- 1 Choose Start > Control Panel.
- 2 In Classic View, double-click System.
- 3 Click the Hardware tab.
- 4 Under Device Manager, choose Device Manager.
- 5 In the Device Manager window, double-click IDE ATA/ATAPI controllers, then double-click the Primary IDE Channel for your IDE hard drive.
- 6 Click the Advanced Settings tab.
- 7 For each device, set the Transfer Mode to "DMA if available," and click OK.
- 8 Repeat steps 5–7 for any additional IDE Channels.
- 9 Close the Computer Management window.


Disabling System Standby and Power Management

When using Pro Tools, the Windows System Standby power scheme must be set to Always On. This helps prevent long record or playback passes from stopping due to system resources powering down.

To configure Windows Power Management:

- 1 Choose Start > Control Panel.
- 2 Double-click Power Options.
- 3 Click the Power Schemes tab.
- 4 From the Power Schemes pop-up menu, select Always On.
- 5 Click OK.

This sets System Standby, System Hibernate, and “Turn off hard disks” to Never.

 *On AMD processors, be sure to check and disable Cool N’Quiet in the System BIOS (in the Cool & Quiet Configuration section). Refer to the manufacturer’s documentation for instructions on disabling this power option, if necessary.*

Disabling ClearType Font Smoothing

When using Pro Tools, the Effects “Clear Type” setting must be disabled.

To disable ClearType font smoothing:

- 1 Choose Start > Control Panel.
- 2 Double-click Display.
- 3 Click the Appearance tab.
- 4 Click Effects.
- 5 Deselect “Use the following method to smooth edges of screen fonts.”
- 6 Click OK to save your settings and close the Effects dialog.
- 7 Click OK.
- 8 Restart the computer.

Recommended Optimizations

Pro Tools can also be affected by other software and hardware drivers installed on your computer. It is recommended (but not required) that you do the following:

- Avoid running any unneeded programs at the same time as Pro Tools.
- Turn off any software utilities that run in the background, such as Windows Messenger, calendars, and disk maintenance programs.
- Turn off any nonessential USB devices while running Pro Tools.
- If your video display card supports it, enable Bus Mastering in the manufacturer’s Control Panel. Refer to the manufacturer’s instructions for details.

Optional Optimizations

The following system optimizations may help Pro Tools perform better on some systems. It is recommended that you only try these optimizations if necessary, as they may disable or adversely affect the functionality of other programs on your system.

Disabling Network Cards

If applicable, disable any networking cards (other than a FireWire card that you might use to connect an external drive to your system).

To disable a network card:

- 1 Right-click My Computer and choose Manage.
- 2 Under System Tools, select Device Manager.
- 3 In the Device Manager window, double-click Network adapters, then double-click the Network Adapter card you want to disable.
- 4 Under the General tab, choose “Do not use this device (disable)” from the Device Usage pop-up menu, and click OK.
- 5 Close the Computer Management window.

Adjusting Processor Scheduling

To Adjust Processor Scheduling Performance:

- 1 Choose Start > Control Panel.
- 2 In Classic View, double-click System.
- 3 Click the Advanced tab.
- 4 Under the Performance section, click the Settings button.
- 5 In the Performance Options window, click the Advanced tab.

6 Under the Processor scheduling section, select the Background Services option.

7 Under the Memory Usage section, select the System cache option.

8 Click OK to close the Performance Options window.

9 Click OK to close the System Properties window.

10 Restart the computer for the changes to take effect.

Disabling Hyper-Threading

Pro Tools LE takes advantage of the added processing power of computers that have multiple processors, or that feature multi-core processing or Hyper-Threading, for RTAS processing.

However, if you set the number of processors available for RTAS processing to 1 (in the Pro Tools Playback Engine dialog), some computers with hyperthreading capability may experience decreased performance.

If this occurs, you can increase the number of RTAS processors in the Playback Engine dialog, or you can disable Hyper-Threading on the computer.

Refer to your computer’s documentation for steps on how to enter the computer’s BIOS and disable Hyper-Threading.

Disabling System Startup Items

The fewer items in use by your computer, the more resources are available for Pro Tools. Some startup applications may be consuming unnecessary CPU resources, and should be turned off.

If you disable any of the following startup items, do so carefully:

- Portable media serial number (required for applications that utilize a copy protection key)
- Plug and play
- Event log
- Cryptographic services
- DHCP Client, TCP/IP Net BIOS, and other networking-related items (unless the computer has no network or internet connection, in which case these items can be disabled)

To Disable System Startup Items:


- 1** From the Start menu, choose Run.
- 2** Type “msconfig” and click OK. The System Configuration Utility opens.
- 3** Under the General tab, choose Selective Startup.
- 4** Deselect Load Startup Items and click OK.
- 5** Click Restart to restart the computer.
- 6** After restarting, the computer displays a System Configuration message. Check to see if Pro Tools performance has increased before you deselect the “Don't show this message again” option. If performance has not changed, run “msconfig” and return your computer Selective Startup back to Normal Startup. Alternatively, try disabling Startup items and non-essential processes individually.

Installing Pro Tools HD Software

(Pro Tools|HD Systems Only)

To install Pro Tools HD software:

- 1** If you have Media Station|PT or Media Station|V10 installed on your system, uninstall it before proceeding.

 *For details on uninstalling Media Station|PT or Media Station|V10, see the Avid Video Peripherals Guide.*

- 2** Start Windows, logging in with Administrator privileges. For details on Administrator privileges, refer to your Windows documentation.

- 3** Do one of the following:

- Insert the Pro Tools Installer disc for Windows in your CD/DVD drive. Locate and open the Pro Tools Installer folder, and double-click the Setup icon.

– or –

- If you downloaded the Pro Tools Update from our website, follow the instructions provided with it to expand and launch the installer.

- 4** Follow the on-screen instructions to proceed with installation.

- 5** Select the install location. For maximum reliability, install Pro Tools on your startup drive.

- 6** Click Next.

- 7** Select the Pro Tools application for installation.

8 You can also select from a list of optional items to install along with Pro Tools.

Mac HFS+ Disk Support Option This option lets your Pro Tools system read, write, record, and play back using Mac-formatted HFS+ disks. HFS+ disks are commonly referred to as Mac OS Extended disks.

Avid Video Engine The Avid Video Engine is required to use Pro Tools with Avid video peripherals such as the Avid Mojo or the Digidesign AVoption|V10.

DigiTranslator DigiTranslator™ is a software option for Pro Tools that lets you convert and exchange OMF and AAF sequences and MXF files directly in the Pro Tools application. This option is purchased separately.

MachineControl Digidesign MachineControl™ is a software option that lets you control external audio/video devices from Pro Tools using serial 9-pin protocols. This option is purchased separately.

Command|8 Controller and Driver The Command|8 Driver is required if you are using the Digidesign Command|8 control surface.

MP3 Export Option The MP3 Export Option lets you export MP3 files from Pro Tools. This option is purchased separately.

9 Click Next.

10 Select your work environment. This loads an initial set of Pro Tools Preferences that include some of the more popular settings for post production, audio, or audio with MIDI.




Preference settings can be customized at any time in Pro Tools. See the Pro Tools Reference Guide for more information.

11 Click Next.


12 Select whether to install the Surround Mixer plug-in. This plug-in is required for mixing, mastering, and monitoring in surround.

- Select “Yes – Monitor in Pro Tools Film Format” if your monitoring is configured for Film Format surround.
- Select “Yes – Monitor in ProControl (DTS Format)” if you are using a ProControl dedicated controller.
- Select “No – Stereo mixing only” if your monitoring is configured for Stereo.

 *AFL/PFL Solo modes require the Surround Mixer plug-in. See the Pro Tools Reference Guide for more information.*

13 Click Next.

14 Click Install.

 *Windows will display several messages during installation that can be ignored, including multiple “Found New Hardware” dialogs and “A Problem Occurred During Hardware Installation.”*

15 Wait for the installer to finish installing all software components, drivers, and PACE System files before proceeding to the next step.

16 When installation is complete, click Finish.

17 Proceed to “Installing QuickTime” on page 10.

Installing Pro Tools LE Software

(Digi 002, Digi 002 Rack, Mbox 2 Pro, Mbox 2, Mbox 2 Mini, and Mbox Systems Only)

To install Pro Tools LE:

- 1 Start Windows, logging in with Administrator privileges. For details on Administrator privileges, refer to your Windows documentation.
- 2 Do one of the following:
 - Insert the Pro Tools Installer disc for Windows in your CD/DVD drive. Locate and open the Pro Tools Installer folder, and double-click the Setup icon.
 - or –
 - If you downloaded the Pro Tools Update from our website, follow the instructions provided with it to expand and launch the installer.
- 3 Follow the on-screen instructions to proceed with installation.
- 4 Select the install location. For maximum reliability, install Pro Tools on your startup drive.
- 5 Click Next.
- 6 Select the Pro Tools application for installation.
- 7 You can also select from a list of optional items to install along with Pro Tools.

Mac HFS+ Disk Support Option This option lets your Pro Tools system read, write, record, and play back using Mac-formatted HFS+ disks. HFS+ disks are commonly referred to as Mac OS Extended disks.


DigiTranslator DigiTranslator™ is a software option for Pro Tools that lets you convert and exchange OMF and AAF sequences and MXF files directly in the Pro Tools application. This option is purchased separately.


Command|8 Controller and Driver The Command|8 Driver is required if you are using the Digidesign Command|8 control surface.

MP3 Export Option The MP3 Export Option lets you export MP3 files from Pro Tools. This option is purchased separately.

8 Click Next.

9 Click Install.

 *Windows will display several messages during installation that can be ignored, including multiple “Found New Hardware” dialogs and “A Problem Occurred During Hardware Installation.”*

 *If you get a warning dialog about the driver not passing Windows Logo testing, click Continue Anyway.*

10 Wait for the installer to finish installing all software components, drivers, and PACE System files before proceeding to the next step.

11 When installation is complete, click Finish.

12 Proceed to “Installing QuickTime” on page 10.

Installing Pro Tools M-Powered Software

(Pro Tools M-Powered Systems Only)

To install Pro Tools M-Powered:

1 Start Windows, logging in with Administrator privileges. For details on Administrator privileges, refer to your Windows documentation.

2 Do one of the following:

- Insert the Pro Tools Installer disc for Windows in your CD/DVD drive. Locate and open the Pro Tools Installer folder, and double-click the Setup icon.

– or –

- If you downloaded the Pro Tools Update from our website, follow the instructions provided with it to expand and launch the installer.

3 Follow the on-screen instructions to proceed with installation.

4 Select the install location. For maximum reliability, install Pro Tools on your startup drive.

5 Click Next.

6 Select the Pro Tools application for installation.

7 You can also select from a list of optional items to install along with Pro Tools.

Command|8 Controller and Driver The Command|8 Driver is required if you are using the Digidesign Command|8 control surface.

MP3 Export Option The MP3 Export Option lets you export MP3 files from Pro Tools. This option is purchased separately.

8 Click Next.

9 Click Install.

▲ *Windows will display several messages during installation that can be ignored, including multiple “Found New Hardware” dialogs and “A Problem Occurred During Hardware Installation.”*

▲ *If you get a warning dialog about the driver not passing Windows Logo testing, click Continue Anyway.*

10 Wait for the installer to finish installing all software components, drivers, and PACE System files before proceeding to the next step.

11 When installation is complete, click Finish.

12 Proceed to “Installing QuickTime” on page 10.

Installing Pro Tools Academic Software

(Pro Tools Academic Systems Only)

To install Pro Tools Academic:

1 Start Windows, logging in with Administrator privileges. For details on Administrator privileges, refer to your Windows documentation.

2 Do one of the following:

- Insert the Pro Tools Installer disc for Windows in your CD/DVD drive. Locate and open the Pro Tools Installer folder, and double-click the Setup icon.

– or –

- If you downloaded the Pro Tools Update from our website, follow the instructions provided with it to expand and launch the installer.

3 Follow the on-screen instructions to proceed with installation.

4 Select the install location. For maximum reliability, install Pro Tools on your startup drive.

5 Click Next.

6 Select the Pro Tools application for installation.


7 You can also select from a list of optional items to install along with Pro Tools.


Command|8 Controller and Driver The Command|8 Driver is required if you are using the Digidesign Command|8 control surface.

MP3 Export Option The MP3 Export Option lets you export MP3 files from Pro Tools. This option is purchased separately.

8 Click Next.

9 Click Install.

 *Windows will display several messages during installation that can be ignored, including multiple “Found New Hardware” dialogs and “A Problem Occurred During Hardware Installation.”*

 *If you get a warning dialog about the driver not passing Windows Logo testing, click Continue Anyway.*

10 Wait for the installer to finish installing all software components, drivers, and PACE System files before proceeding to the next step.


11 When installation is complete, click Finish.

12 Proceed to “Installing QuickTime” on page 10.

Installing QuickTime

(All Pro Tools Systems)

QuickTime is required for Pro Tools if you plan to include movie files, or import MP3 or MP4 (AAC) files in your sessions. QuickTime for Windows XP is available as a free download from the Apple website (www.apple.com).

 *For information on which version of QuickTime is compatible with your version of Pro Tools, visit the compatibility pages of the Digidesign website (www.digidesign.com).*

To install QuickTime:

1 Visit www.apple.com and go to the QuickTime page.

2 Download the QuickTime installer application to your computer.

3 Double-click the QuickTime installer application and follow the on-screen installation instructions.

4 Restart your computer.

⚠ *If the USB LED on the front panel of the Mbox 2 does not illuminate after installation, try unplugging the USB cable from the Mbox 2 USB port, and plugging it back in. If the USB LED still does not illuminate, shut down the computer, disconnect Mbox 2 and start the computer. Once the computer has fully restarted, reconnect Mbox 2.*

Launching Pro Tools HD Software

To use Pro Tools HD, you must always have an inserted iLok with an authorization for Pro Tools HD. One pre-authorized iLok is included with your Pro Tools HD system.

To authorize Pro Tools HD software:

1 Insert the pre-authorized iLok into an available USB port on your computer.

2 Do one of the following:

- Double-click the Pro Tools HD shortcut on the desktop.

– or –

- Locate and double-click the Pro Tools HD application on your hard drive.

⚠ *Do not remove the iLok during Pro Tools launch or use.*

Launching Pro Tools LE Software

When launching Pro Tools LE the first time, you are prompted to enter an authorization code.

To authorize Pro Tools LE software:

1 Double-click the Pro Tools LE shortcut on your desktop (or the application icon in the Pro Tools folder inside the Digidesign folder).

2 Enter the authorization code in the dialog (making sure to type it exactly as printed, and observing any spaces and capitalization), then click Validate.

Your authorization code is located on the inside front cover of this guide.

Launching Pro Tools M-Powered

To use Pro Tools M-Powered with an M-Audio interface, you must always have an iLok with an authorization for Pro Tools M-Powered. One pre-authorized iLok is included with the Pro Tools M-Powered package.

To authorize Pro Tools M-Powered software:

1 Insert the pre-authorized iLok into an available USB port on your computer.

2 Double-click the Pro Tools M-Powered shortcut on your desktop (or the application in Program Files\Digidesign\Pro Tools).

⚠ *Do not remove the iLok during Pro Tools launch or use.*

Launching Pro Tools Academic

To authorize Pro Tools Academic software:

1 For Pro Tools Academic Standalone only, insert the pre-authorized iLok into an available USB port on your computer.

▲ *To use Pro Tools Academic Standalone software with an M-Audio interface, you must always have an iLok with an authorization for Pro Tools Academic. One pre-authorized iLok is included with your Pro Tools Academic Standalone package.*

2 Double-click the Pro Tools Academic shortcut on your desktop (or the application in Program Files\Digidesign\Pro Tools).

▲ *For Pro Tools Academic Standalone, do not remove the pre-authorized iLok during Pro Tools launch or use.*

3 For Pro Tools Academic bundled hardware kits only, enter the authorization code in the dialog (making sure to type it exactly as printed, and observing any spaces and capitalization), then click Validate.

Your authorization code is located on the inside front cover of this guide.

Configuring Pro Tools


You can adjust the performance of your system by changing certain Pro Tools *system settings* that affect its capacity for processing, playback, and recording.

In most cases, the default settings for your system provide optimum performance, but you may want to adjust them to accommodate large or processing-intensive Pro Tools sessions.

Refer to the electronic PDF version of the *Getting Started Guide* that was installed with your software for instructions on configuring Pro Tools settings.

Additional Software on the Pro Tools Installer Disc

The Pro Tools Installer disc provides additional software for your system, including audio drivers (for playing other audio applications through your Digidesign hardware) and a Pro Tools demo session.

 *Refer to your Pro Tools Installer disc for additional software and installers.*

Pro Tools Demo Session

The Pro Tools Installer disc includes a demo session that you can use to verify that your system is working.


To install the demo session:

- 1** Insert the Pro Tools Installer disc into your CD/DVD drive.
- 2** From your CD/DVD drive, locate and open the Additional Files/Pro Tools Demo Session Installer folder.
- 3** Double-click Setup.exe.
- 4** Select your audio drive as the install location and click Install.
- 5** When installation is complete, click OK.

Windows Audio Drivers for Mbox 2 Pro


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.

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

 *For specifications and configuration information specific to each driver, see the Windows Audio Drivers Guide.*


Digidesign ASIO Driver

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 the Mbox 2 Pro audio interfaces.

 *For detailed information on configuring the Digidesign ASIO Driver, see the Windows Audio Drivers Guide.*

Digidesign DirectSound Driver

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.

 *For detailed information on configuring the Digidesign DirectSound Driver, see the Windows Audio Drivers Guide.*

Standalone Digidesign Windows Audio Drivers

Digidesign Windows Audio Drivers can be installed on Windows systems that do not have Pro Tools software installed. Use the standalone version of the Digidesign Windows Audio Drivers installer (Digidesign Audio Drivers Setup.exe), which is available on the Pro Tools Installer disc.

Windows Audio Drivers for Most Pro Tools Interfaces


(Pro Tools|HD, Digi 002, Digi 002 Rack, Mbox 2, Mbox 2 Mini, and Mbox Only)

The Digidesign ASIO Driver and WaveDriver Windows System Audio Driver let you use your Digidesign hardware interface with third-party applications that support the ASIO Driver or WaveDriver MME (Multimedia Extension).

The following Pro Tools system interfaces are supported:


- Pro Tools|HD
- Digi 002
- Digi 002 Rack
- Mbox 2
- Mbox 2 Mini
- Mbox

The Digidesign ASIO Driver and WaveDriver for your Digidesign hardware are automatically installed when you install Pro Tools.

 *For specifications and configuration information specific to each driver, see the Windows Audio Drivers Guide.*


Digidesign ASIO Driver

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 Digidesign-qualified Pro Tools audio interfaces.

 For detailed information on configuring the Digidesign ASIO Driver, see the *Windows Audio Drivers Guide*.

Digidesign WaveDriver

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

 For detailed information on configuring the Digidesign WaveDriver, see the *Windows Audio Drivers Guide*.

Standalone Digidesign Windows Audio Drivers

Digidesign Windows Audio Drivers can be installed on Windows systems that do not have Pro Tools software installed. Use the standalone version of the Digidesign Windows Audio Drivers installer (Digidesign Audio Drivers Setup.exe), which is available on the Pro Tools Installer disc.

Removing Pro Tools

If you need to remove Pro Tools software from your computer, you can use the Add or Remove Programs command.

To remove Pro Tools from your computer:

- 1 Choose Start > Control Panel.
- 2 Double-click Add or Remove Programs.
- 3 From the Currently Installed Programs list, select Digidesign Pro Tools.
- 4 Click the Change/Remove button.
- 5 Follow the on-screen instructions to remove Pro Tools.

chapter 3

Installing Pro Tools on Mac

This chapter explains how to install and configure Pro Tools for Pro Tools|HD, Pro Tools LE, Pro Tools M-Powered, and Pro Tools Academic systems on a Digidesign-qualified Mac computer.

For complete system requirements and compatibility information, visit the Digidesign website (www.digidesign.com).

A *Before installing this version of Pro Tools, refer to the Read Me information included on the Pro Tools Installer disc.*

Mac System Optimization

To ensure optimum performance with Pro Tools, configure your computer before installing Pro Tools hardware and software.

Before configuring your computer, make sure you are logged in as an Administrator for the account where you want to install Pro Tools. For details on Administrator privileges in Mac OS X, refer to your Apple OS X documentation.

A *Do not use the Mac OS X automatic Software Update feature, as it may upgrade your system to a version of Mac OS that has not yet been qualified for Pro Tools. For details on qualified versions of Mac OS, visit the Digidesign website (www.digidesign.com).*

Turning Off Software Update

To turn off the Software Update feature:

- 1 Choose System Preferences from the Apple menu and click Software Update.
- 2 Click Update Software and deselect Check for Updates.

Turning Off Energy Saver

To turn off the Energy Saver feature:

- 1 Choose System Preferences from the Apple menu and click Energy Saver.
- 2 Click Sleep and do the following:
 - Set the computer sleep setting to Never.
 - Set the display sleep setting to Never.
 - Deselect “Put the hard disk(s) to sleep when possible” option.

Setting Processor Performance

(Mac G5 Computers Only)

To set the Processor Performance:

- 1 Choose System Preferences from the Apple menu and click Energy Saver.
- 2 Click Options and set Processor Performance to Highest.

Disabling Spotlight Indexing

The Mac OS X Spotlight feature indexes files and folders in the background, affecting system performance. It is recommended that you disable Spotlight indexing before using Pro Tools.

To disable Spotlight indexing:

- 1 Choose System Preferences from the Apple menu and click Spotlight.
- 2 In the Spotlight window, click Privacy.
- 3 To prevent indexing of a drive, drag its icon from the desktop into the list.

Disabling the Spotlight Shortcuts

The Mac OS X Spotlight feature uses the same key commands Pro Tools uses to start recording (Command+Spacebar), and to record online (Command+Option+Spacebar). To retain use of these key commands in Pro Tools, these shortcuts must be disabled.

To disable the Spotlight keyboard shortcut:

- 1 Choose System Preferences from the Apple menu and click Spotlight.
- 2 Deselect “Spotlight menu keyboard shortcut” and “Spotlight window keyboard shortcut.”

Disabling Dashboard and Exposé

The Mac OS X Dashboard and Exposé features use function keys that are also used by Pro Tools (F9–F12). To retain use of these keys in Pro Tools, these features must be disabled.

To disable Dashboard and Exposé:

- 1 Choose System Preferences from the Apple menu and click Dashboard and Exposé.
- 2 In the pop-up menus for each keyboard shortcut, set the shortcut to “–” to disable it.

Enabling Journaling for Audio Drives

If you plan to use an audio drive that you used with a previous version of Pro Tools on the Mac, enable journaling.

To enable journaling:

- 1 Launch the Disk Utility application, located in Applications/Utilities.
- 2 Select the volume in the left column of the Disk Utility window.
- 3 Click Enable Journaling in the toolbar.

Installing and Launching Pro Tools HD Software

(Pro Tools|HD Systems Only)

Installing Pro Tools HD

To install Pro Tools HD software:

- 1 Make sure you are logged in as an Administrator for the account where you want to install Pro Tools. For details on Administrator privileges in Mac OS X, refer to your Apple OS X documentation.
- 2 Do one of the following:
 - Insert the Pro Tools Installer disc in your CD/DVD drive. Double-click “Install Pro Tools.”
 - or –
 - If you downloaded the Pro Tools Update from our website, follow the instructions provided with it to expand and launch the installer.
- 3 Select the install location. For maximum reliability, install Pro Tools on your startup drive.
- 4 Click Continue.

5 Select the Pro Tools application for installation.

6 You can also select from a list of optional items to install along with Pro Tools:

Avid Video Engine The Avid Video Engine is required to use Pro Tools with Avid video peripherals such as the Avid Mojo or the Digidesign AVoption|V10.

DigiTranslator DigiTranslator™ is a software option for Pro Tools that lets you convert and exchange OMF and AAF sequences and MXF files directly in the Pro Tools application. This option is purchased separately.

MachineControl Digidesign MachineControl™ is a software option that lets you control external audio/video devices from Pro Tools using serial 9-pin protocols. This option is purchased separately.


MIDI I/O Driver The MIDI I/O Driver is required if you are using the Digidesign MIDI I/O.

MP3 Export Option The MP3 Export Option lets you export MP3 files from Pro Tools. This option is purchased separately.

7 Click Install.


8 If prompted, enter your Administrator password and click OK to accept the installation.

9 Select your work environment. This loads an initial set of Pro Tools Preferences that include some of the more popular settings for post production, audio, or audio with MIDI.

 *Preference settings can be customized at any time in Pro Tools. See the Pro Tools Reference Guide for more information.*


10 Select whether to install the Surround Mixer plug-in. This plug-in is required for mixing, mastering, and monitoring in surround:

- Select “Yes – Monitoring in Standard Pro Tools (Film Format)” if your monitoring is configured for Film Format surround.
- Select “Yes – Monitoring in ProControl (DTS Format)” if you are using a ProControl dedicated controller.
- Select “No – Stereo mixing only” if your monitoring is configured for Stereo.

 *AFL/PFL Solo modes require the Surround Mixer plug-in. See the Pro Tools Reference Guide for more information.*

11 Click Continue.

12 When installation is complete, click Restart.

 *The Pro Tools Installer disc includes additional software for your system. For more information, see “Additional Software on the Pro Tools Installer Disc” on page 21.*


Launching Pro Tools HD

(Pro Tools|HD Systems Only)

To use Pro Tools HD, you must always have an inserted iLok with an authorization for Pro Tools HD. One pre-authorized iLok is included with your Pro Tools HD system.

To authorize Pro Tools HD software:

- 1 Insert the pre-authorized iLok into an available USB port on your computer.
- 2 Do one of the following:
 - Click the Pro Tools HD icon in the Dock.
 - or –
 - Locate and double-click the Pro Tools HD application on your hard drive.

 Do not remove the iLok during Pro Tools launch or use.

Installing and Launching Pro Tools LE Software

(Digi 002, Digi 002 Rack, Mbox 2 Pro, Mbox 2, Mbox 2 Mini, and Mbox Systems Only)

Installing Pro Tools LE

To install Pro Tools LE on Mac OS X:

- 1 Make sure you are logged in as an Administrator for the account where you want to install Pro Tools. For details on Administrator privileges in Mac OS X, refer to your Apple Mac OS X documentation.
- 2 Do one of the following:
 - Insert the Pro Tools Installer disc in your CD/DVD drive. Double-click “Install Pro Tools.”
 - or –
 - If you downloaded the Pro Tools Update from our website, follow the instructions provided with it to expand and launch the installer.
- 3 Follow the on-screen instructions to continue and accept installation.

4 Select the install location. For maximum reliability, install Pro Tools on your startup drive.

5 Click Continue.

6 Select the Pro Tools application for installation.

7 You can also select from a list of optional items to install along with Pro Tools:

DigiTranslator DigiTranslator™ is a software option for Pro Tools that lets you convert and exchange OMF and AAF sequences and MXF files directly in the Pro Tools application. This option is purchased separately.

MIDI I/O Driver The MIDI I/O Driver is required if you are using the Digidesign MIDI I/O.


MP3 Export Option The MP3 Export Option lets you export MP3 files from Pro Tools. This option is purchased separately.

8 Click Install.

9 If prompted, enter your Administrator password and click OK to authenticate the installation.

10 Follow the remaining on-screen instructions.

11 When installation is complete, click Restart.

 *The Pro Tools Installer disc includes additional software for your system. For more information, see “Additional Software on the Pro Tools Installer Disc” on page 21.*

Launching Pro Tools LE

When launching Pro Tools LE the first time, you are prompted to enter an authorization code to validate your software.

To authorize Pro Tools LE software:

- 1 Click the Pro Tools LE icon in the Dock (or double-click the application icon in the Pro Tools folder inside the Digidesign folder).
- 2 Enter the authorization code in the dialog when prompted (making sure to type it exactly as printed, and observing any spaces and capitalization), then click Validate.

Your authorization code is located on the inside front cover of this guide.

Installing and Launching Pro Tools M-Powered Software

(Pro Tools M-Powered Systems Only)

Installing Pro Tools M-Powered

To install Pro Tools M-Powered:

- 1 Make sure you are logged in as an Administrator for the account where you want to install Pro Tools. For details on Administrator privileges in Mac OS X, refer to your Apple Mac OS X documentation.

- 2 Do one of the following:

- Insert the Pro Tools Installer disc in your CD/DVD drive. Double-click “Install Pro Tools.”
- or –
- If you downloaded the Pro Tools Update from our website, follow the instructions provided with it to expand and launch the installer.

- 3 Follow the on-screen instructions to proceed with installation.

- 4 Select the install location. For maximum reliability, install Pro Tools on your startup drive.

- 5 Click Continue.

- 6 Select the Pro Tools application for installation.

- 7 You can also select from a list of optional items to install along with Pro Tools:

MIDI I/O Driver The MIDI I/O Driver is required if you are using the Digidesign MIDI I/O.

MP3 Export Option The MP3 Export Option lets you export MP3 files from Pro Tools. This option is purchased separately.

- 8 Click Install.

- 9 If prompted, enter your Administrator password and click OK to authenticate the installation.

- 10 Follow the remaining on-screen instructions.

- 11 When installation is complete, click Restart.




The Pro Tools Installer disc includes additional software for your system. For more information, see “Additional Software on the Pro Tools Installer Disc” on page 21.

Launching Pro Tools M-Powered

To use Pro Tools M-Powered with an M-Audio interface, you must always have an iLok with an authorization for Pro Tools M-Powered. One pre-authorized iLok is included with the M-Powered package.

To authorize Pro Tools M-Powered software:

- 1 Insert the pre-authorized iLok into an available USB port on your computer.
- 2 Click the Pro Tools M-Powered shortcut in your Dock, (or the application in Applications \ Digidesign \ Pro Tools).

 *Do not remove the iLok during Pro Tools launch or use.*

Installing and Launching Pro Tools Academic Software

(Pro Tools Academic Systems Only)

Installing Pro Tools Academic

To install Pro Tools Academic:

- 1 Make sure you are logged in as an Administrator for the account where you want to install Pro Tools. For details on Administrator privileges in Mac OS X, refer to your Apple Mac OS X documentation.
- 2 Do one of the following:
 - Insert the Pro Tools Installer disc in your CD/DVD drive. Double-click “Install Pro Tools.”
 - or –
 - If you downloaded the Pro Tools Update from our website, follow the instructions provided with it to expand and launch the installer.

3 Follow the on-screen instructions to proceed with installation.

4 Select the install location. For maximum reliability, install Pro Tools on your startup drive.

5 Click Continue.

6 Select the Pro Tools application for installation.

7 You can also select from a list of optional items to install along with Pro Tools:


MP3 Export Option The MP3 Export Option lets you export MP3 files from Pro Tools. This option is purchased separately.

8 Click Install.

9 If prompted, enter your Administrator password and click OK to authenticate the installation.

10 Follow the remaining on-screen instructions.


11 When installation is complete, click Restart.

 *The Pro Tools Installer disc includes additional software for your system. For more information, see “Additional Software on the Pro Tools Installer Disc” on page 21.*


Launching Pro Tools Academic

To authorize Pro Tools Academic software:

1 For Pro Tools Academic Standalone only, insert the pre-authorized iLok into an available USB port on your computer.


 *To use Pro Tools Academic Standalone software with an M-Audio interface, you must always have an iLok with an authorization for Pro Tools Academic. One pre-authorized iLok is included with your Pro Tools Academic Standalone package.*

2 Click the Pro Tools Academic shortcut in your Dock, (or double-click the application in Applications\Digidesign\Pro Tools).

 *For Pro Tools Academic Standalone, do not remove the pre-authorized iLok during Pro Tools launch or use.*

3 For Pro Tools Academic bundled hardware kits only (including Mbox 2 Academic), enter the authorization code in the dialog (making sure to type it exactly as printed, and observing any spaces and capitalization), then click Validate.

Your authorization code is located on the inside front cover of this guide.

 *The Pro Tools Installer disc includes additional software for your system. For more information, see “Additional Software on the Pro Tools Installer Disc” on page 21.*

Configuring Pro Tools


You can adjust the performance of your system by changing certain Pro Tools *system settings* that affect its capacity for processing, playback, and recording.

In most cases, the default settings for your system provide optimum performance, but you may want to adjust them to accommodate large or processing-intensive Pro Tools sessions.

Refer to the electronic PDF version of the *Getting Started Guide* that was installed with your software for instructions on configuring Pro Tools settings.

Additional Software on the Pro Tools Installer Disc

The Pro Tools Installer disc provides additional software for your system, including audio drivers (for playing other audio applications through your Digidesign hardware) and a Pro Tools demo session.

 *Check your Pro Tools Installer disc for additional software and installers.*

Pro Tools Demo Session

The Pro Tools Installer disc includes a separate demo session installer. You can use this session to verify that your system is working.

To install the demo session:

- 1 Insert the Pro Tools Installer disc in your CD/DVD drive. Locate and double-click the demo session installer icon.
- 2 Select your audio drive as the install location and click Install.
- 3 When installation is complete, click Quit.

Digidesign CoreAudio Driver


(Pro Tools|HD, Digi 002, Digi 002 Rack, and Mbox Systems Only)

The Digidesign® CoreAudio Driver lets you use your Digidesign-qualified audio interfaces with third-party applications that support the CoreAudio Driver standard.

The following Pro Tools system interfaces are supported:


- Pro Tools|HD®
- Digi 002®
- Digi 002 Rack
- Mbox®

The Digidesign CoreAudio Driver for your Digidesign hardware is automatically installed when you install Pro Tools.

 For information on configuring the Digidesign CoreAudio Driver, see the *CoreAudio Drivers Guide*.

Standalone Digidesign CoreAudio Drivers

Digidesign CoreAudio Drivers can be installed on Mac systems that do not have Pro Tools software installed. Use the standalone version of the Digidesign CoreAudio Drivers installer (Install CoreAudio.mpkg), which is available on the Pro Tools Installer disc.

 For information on installing and configuring the standalone version of the Digidesign CoreAudio Driver, see the *CoreAudio Drivers Guide*.

Mbox 2-Series CoreAudio Drivers

(Mbox 2 Pro, Mbox 2, Mbox 2 Academic, and Mbox 2 Mini Systems Only)


Digidesign® Mbox 2-series CoreAudio Drivers let you use your Digidesign-qualified Mbox 2-series audio interfaces with third-party applications that support the CoreAudio Driver standard.

The following Pro Tools Mbox 2-series system interfaces are supported:

- Mbox 2™ Pro
- Mbox 2
- Mbox 2 Academic
- Mbox 2 Mini


The Mbox 2 CoreAudio Driver is a multi-client, multichannel sound driver that allows CoreAudio compatible applications to record and play back through Digidesign hardware.

The Mbox 2 CoreAudio Driver is installed by default when you install Pro Tools.

 For information on configuring the Mbox 2 CoreAudio Driver, see the *CoreAudio Drivers Guide*.

Standalone Digidesign CoreAudio Drivers

Digidesign CoreAudio Drivers can be installed on Mac systems that do not have Pro Tools software installed. Use the standalone version of the Digidesign CoreAudio Drivers installer (Install CoreAudio.mpkg), which is available on the Pro Tools Installer disc.


 For information on installing and configuring the standalone version of the Digidesign CoreAudio Driver, see the *CoreAudio Drivers Guide*.

Removing Pro Tools

If you need to remove Pro Tools software from your computer, use the Uninstaller application.

To remove Pro Tools from your computer:

1 Make sure you are logged in as an Administrator for the account where Pro Tools is installed.

 *For details on Administrator privileges in Mac OS X, refer to your Apple OS X documentation.*

2 Go to Applications/Digidesign/Pro Tools/Pro Tools Utilities and double-click the “Uninstall Pro Tools” file.

3 Click Continue to proceed with the uninstall.

4 Choose the type of uninstall you want to perform:

Safe Uninstall Leaves certain plug-ins and system files needed for compatibility with some Avid products.

Clean Uninstall Removes all Pro Tools files, including system files, Digidesign plug-ins, and MIDI patch names.

5 Click Uninstall.

6 Enter your Administrator password and click OK.

7 Click Finish to close the Installer window.

appendix a

Configuring MIDI Studio Setup (Windows Only)

MIDI Studio Setup

MIDI Studio Setup (MSS) lets you configure the MIDI controllers and sound modules that are connected to your system, and control the routing of MIDI data between your MIDI equipment and Pro Tools.

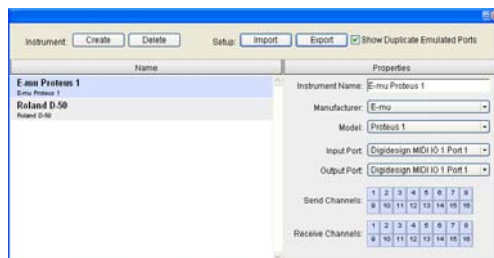
MSS automatically finds MIDI interfaces, and lets you specify a custom name for each of the MIDI ports within the MIDI Studio Setup document.

MSS also supports XML-based patch file names for storing and importing patch names for your external MIDI devices.

Entire MIDI Studio Setup configurations created within MSS can be imported and exported.

MIDI Studio Setup Window

The MIDI Studio Setup window is organized into three sections. Interface controls are at the top of the window. All the currently defined instruments are displayed in the Instrument Name list on the left side of the window. A detailed view of MIDI parameters is shown in the Properties section on the right.



MIDI Studio Setup window

Interface Controls

Create This button adds a new instrument to the Instrument Name list.

Delete This button deletes the instrument or instruments selected in the Instrument Name list.

Import This button lets you import an existing MIDI Studio Setup file.

Export This button lets you export the current MIDI Studio Setup file.

Show Duplicate Emulated Ports When this option is selected and you are using a MIDI interface that supports timestamping (such as MIDI I/O), in addition to the MIDI ports on your Digidesign interface (if applicable), the MIDI Studio setup window shows both the DirectMusic timestamped output ports, and non-stamped duplicate emulated output ports.

⚠ *Some MIDI Interfaces will not properly load or unload their drivers unless you quit and re-launch Pro Tools. Check the documentation that came with your MIDI interface for more information.*

Instrument List

The Instrument list contains all the currently defined instruments. Selecting an instrument in the list displays that instrument's properties in the Properties section of the window.

Properties Section


The Properties section lets you edit information for new instruments, or instrument currently selected in the Instrument list.

MIDI Studio Setup Properties section

When a previously defined instrument is selected in the Instrument list, the Properties section changes to reflect the properties of the selected instrument.

To define an instrument with MIDI Studio Setup:

- 1 Choose Setup > MIDI > MIDI Studio.
- 2 Click Create.
- 3 In the Instrument Name field, type the name of your instrument, and press Enter.

 *If you do not enter an instrument name, the Instrument Name field will automatically inherit information from the Manufacturer and Model pop-up menu.*


- 4 Set a manufacturer and model for the new device from the corresponding pop-up menus. If the Manufacturer and Model pop-up menus do not provide a name for your particular device, choose None.
- 5 From the Input pop-up menu, choose the input port on your MIDI interface that is connected to the MIDI Out of your instrument.
- 6 From the Output pop-up menu, choose the output port on your MIDI interface that is connected to the MIDI In of your instrument.
- 7 Enable the appropriate MIDI channels (1–16) for the Send Channels and Receive Channels options (These determine which channels send and receive MIDI.)

Instrument Name

The Instrument Name field shows the user-definable instrument name for the currently selected instrument.


Manufacturer

The Manufacturer pop-up menu provides a list of MIDI equipment manufacturers. This list is derived from the XML-based MIDI device files.

 *For more information, see “MIDI Patch Name Support” on page 27.*


Model

The Model pop-up menu provides a list of MIDI devices, filtered by the manufacturer name. This list is derived from the XML-based MIDI device files provided with your Pro Tools installation.

 For more information, see “MIDI Patch Name Support” on page 27.


Input Port

The Input Port pop-up menu displays a list of available MIDI interface input ports. Inputs will include your Digidesign interface (if applicable) and any additional MIDI interfaces enabled on your system. The MIDI interface port that is set and displayed here is the port through which MIDI data is sent from the external MIDI device specified in the Instrument Name field into your MIDI interface.

 *If you set the input port to None, the defined instrument will not appear as a choice in a MIDI Input selector.*

Output Port

The Output Port pop-up menu displays a list of available MIDI interface output ports. The port set and displayed here is the port through which MIDI data is sent from your MIDI interface to the MIDI device specified in the Instrument Name field.

 *If you set the output port to None, the defined instrument will not appear as a choice in a MIDI Output selector.*

Send Channels

The Send Channels grid sets the send channels for the MIDI device specified in the Instrument Name field.

Receive Channels

The Receive Channels grid sets the receive channels for the MIDI device specified in the Instrument Name field.

MIDI Patch Name Support

Pro Tools supports XML (Extensible Markup Language) for storing and importing patch names for your external MIDI devices. Pro Tools installs MIDI patch name files (.midnam) for the factory default patch names of many common MIDI devices. These files reside in directories, sorted by manufacturer, in Program Files \ Common Files \ Digidesign \ MIDI Patch Names \ Digidesign.

To import MIDI patch names into Pro Tools:

- 1 Verify the MIDI Device name in the MIDI Studio Setup window (see “MIDI Studio Setup” on page 25).
- 2 Verify the MIDI track’s output is correctly assigned to the MIDI device.

3 Click the MIDI track's Patch Select button.



Patch Select button

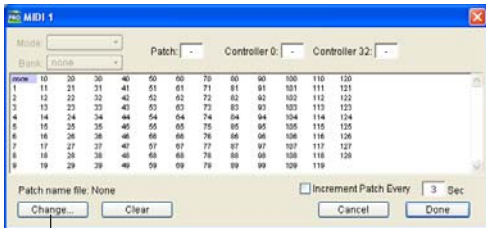
Patch Select button, Edit window



Patch Select button

Patch Select button, Mix window

4 In the Patch Select dialog, click the Change button.



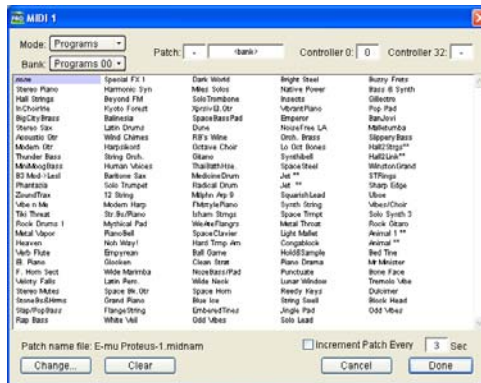
Change button

Patch Select dialog

5 In the Open dialog, navigate to Program Files\Common Files\Digidesign\MIDI Patch Names\Digidesign\

6 Click Open.

The Patch Select dialog is populated with patch names and the Patch Name Bank pop-up menu appears in the upper left hand corner of the window.



Patch Select dialog with patch names

Once patch names have been imported into Pro Tools, they are available for that MIDI device in all sessions.

To clear patch names:

- In the Patch Select dialog, click the Clear button, and click Done.



MIDI patch name files (.midnam) can be edited in any text editor, or you can use third party patch librarian and editor software to create your own custom patch names.

appendix b

Configuring AMS (Mac OS X Only)

Audio MIDI Setup

Pro Tools recognizes the ports on your MIDI interface as generic ports. With Mac OS X, you use Apple's Audio MIDI Setup (AMS) utility to identify external MIDI devices connected to your MIDI interface and configure your MIDI studio for use with Pro Tools.

To configure your MIDI studio in AMS:

- 1 Do one of the following:
 - Launch Audio MIDI Setup (located in Applications/Utilities).
 - or –
 - In Pro Tools, choose Setup > MIDI > MIDI Studio.

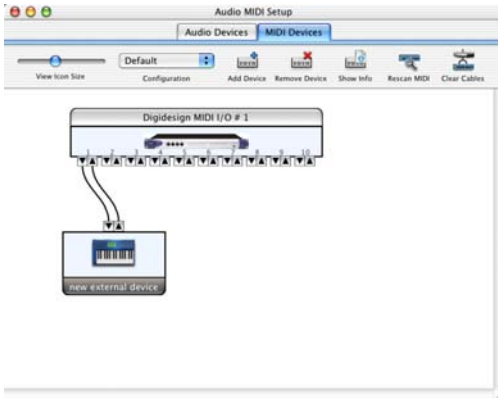
- 2 Click MIDI Devices. AMS scans your system for connected MIDI interfaces. If your MIDI interface is properly connected, it appears in the window with each of its ports numbered.



Audio MIDI Setup (MIDI Devices tab)


- 3 For any MIDI devices connected to the MIDI interface, click Add Device. A new external device icon with the default MIDI keyboard image will appear.
- 4 Drag the new device icon to a convenient location within the window.

5 Connect the MIDI device to the MIDI interface by clicking the arrow for the appropriate output port of the device and dragging a connection or “cable” to the input arrow of the corresponding port of the MIDI interface.



Making MIDI input and output connections

6 Click the arrow for the appropriate input port of the device and drag a cable to the output arrow of the corresponding port of the MIDI interface.

 To remove a connection, select the cable and press Delete. To delete all connections, click Clear Cables.

7 Repeat steps 3–6 for each MIDI device in your MIDI setup.

To configure an external MIDI device:

1 Select the external device icon and click Show Info (or double-click the new device icon).




External Device Icon

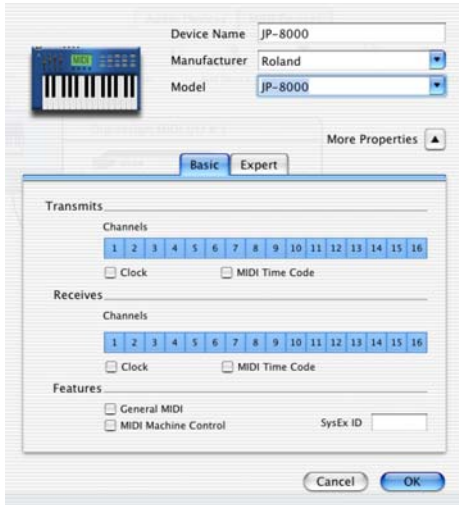
2 Select a manufacturer and model for the new device from the corresponding pop-up menus. (If the Manufacturer and Model pop-up menus do not provide a name for your particular device, you can type a name.)



Naming a new MIDI device

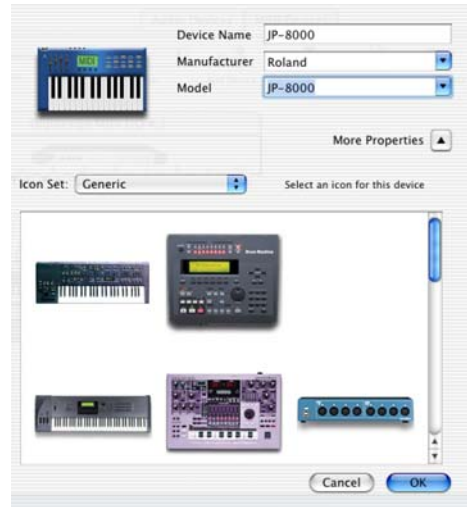
 For Manufacturer and Model names, AMS refers to one or more files with the suffix “.middev” in the directory Root/Library/Audio/MIDI Devices. Pro Tools installs a file that contains information for many commercially available MIDI devices, named “Digidesign Device List.middev.” If the Manufacturer or Model names for any of your external MIDI devices is not available in the AMS Manufacturer and Model pop-up menus, you can add them by editing the .middev file in any text editor (such as TextEdit).

3 Click the More Properties arrow to expand the dialog, then enable the appropriate MIDI channels (1–16) for the Transmits and Receives options. (These determine which channels the device will use to send and receive MIDI.)




Enabling MIDI channels

4 Click the device image. The window expands to show images for various MIDI devices (such as keyboards, modules, interfaces, and mixers). Select an icon for your device.



Selecting a device icon

 *To use your own custom icons, you can place TIFF image files in /Library/Audio/MIDI Devices/Generic/Images, and they will appear as choices in the AMS device window.*

5 Click OK.

The device names you enter appear as MIDI input and output choices in Pro Tools.

MIDI Patch Name Support

Pro Tools supports XML (Extensible Markup Language) for storing and importing patch names for your external MIDI devices. Pro Tools installs MIDI patch name files (.midnam) for the factory default patch names of many common MIDI devices. These files reside in directories, sorted by manufacturer, in /Library/Audio/MIDI Patch Names/Digidesign.

To import MIDI patch names into Pro Tools:

- 1 Verify the MIDI Device name in the Audio MIDI Setup window (see “Audio MIDI Setup” on page 29).
- 2 Verify the MIDI track’s output is correctly assigned to the MIDI device.
- 3 Click the MIDI track’s Patch Select button.

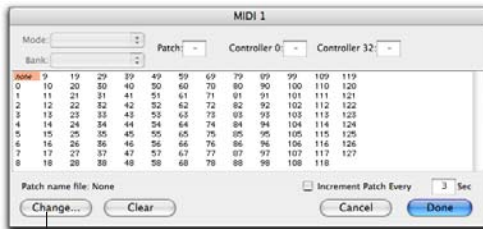


Patch Select button, Edit window



Patch Select button, Mix window

- 4 In the Patch Select dialog, click the Change button.



Change button

Patch Select dialog

- 5 In the Open dialog, navigate to /Library/Audio/MIDI Patch Names/Digidesign/<name of manufacturer>, and select the MIDI Patch Name file (.midnam) for the MIDI device.
- 6 Click Open.

The Patch Select dialog is populated with patch names and the Patch Name Bank pop-up menu appears in the upper left hand corner of the window.

Once patch names have been imported into Pro Tools, they are available for that MIDI device in all sessions.

To clear patch names:

- In the Patch Select dialog, click the Clear button, and click Done.



MIDI patch name files (.midnam) can be edited in any text editor, or you can use third party patch librarian and editor software to create your own custom patch names.



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