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You can read the recommendations in the user guide, the technical guide or the installation guide for M-AUDIO PRO TOOLS SE. You'll find the answers to all your questions on the M-AUDIO PRO TOOLS SE in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

User manual M-AUDIO PRO TOOLS SE
User guide M-AUDIO PRO TOOLS SE
Operating instructions M-AUDIO PRO TOOLS SE
Instructions for use M-AUDIO PRO TOOLS SE
Instruction manual M-AUDIO PRO TOOLS SE



Pro Tools SE[®] User Guide
Version 8.0.3



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Manual abstract:

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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 Chapter 1. Welcome to Pro Tools SE . . .

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This guide provides step-by-step instructions to install and configure Pro Tools SE software. Pro Tools SE Capabilities Pro Tools SE software provides the following capabilities: · 24-bit audio resolution, at sample rates up to 96 kHz (depending on the M-Audio interface). · 8 Instrument tracks, 16 Audio tracks, 1 Master Fader. · Playback of up to 16 tracks of mono or stereo digital audio, and playback of up to 15 tracks while recording 1 track (stereo or mono) or up to 14 tracks while recording 2 mono or stereo tracks. · Normal and loop recording.

· Processing with up to 3 effects per track. · Undo or redo up to 10 operations. · Comprehensive set of effects and software instruments. · Comprehensive collection of loops in many musical genres. Pro Tools SE Systems The basic components of a Pro Tools SE system are as follows: · M-Audio interface qualified for Pro Tools SE. · Mac or Windows computer qualified for Pro Tools SE. · Pro Tools SE software. For a list of qualified M-Audio interfaces and minimum system requirements, refer to the compatibility information on the Avid website: (www.m-audio.com/ptsefaq).

Pro Tools uses your computer's CPU to mix and process audio tracks (host processing). Computers with faster clock speeds yield the best performance and more plug-in processing. Chapter 1: Welcome to Pro Tools SE 1 System Requirements and Compatibility To use Pro Tools SE, you need: · A qualified M-Audio interface, running on a qualified Windows or Mac computer. · A qualified version of Adobe Flash Player (not included). · A DVD drive for Installation disc. Avid can only assure compatibility and provide support for hardware and software it has tested and approved. If you are using an ATA/IDE or FireWire hard drive, initialize your drive with the Disk Utility application included with Apple System software (Mac) or the Windows Disk Management (Windows).

Always back up any important data on your drive before formatting it, as it will erase all data on the drive. For more information, see Appendix A, "Hard Drive Configuration and Maintenance." Session Compatibility · Pro Tools SE session files can be opened by Pro Tools HD, LE, and M-Powered.

· Pro Tools HD, LE, M-Powered, and M-Powered Essential session files cannot be opened by Pro Tools SE. · Pro Tools SE session files cannot be opened by M-Powered Essential. Refer to the compatibility information on the Avid website: (www.m-audio.com/ptsefaq).

Pro Tools Co-installation Information · Pro Tools SE cannot be co-installed with Pro Tools HD, LE, M-Powered, and M-Powered Essential. · If you already have Pro Tool M-Powered Essential installed and you want to use Pro Tools SE instead, you must uninstall Pro Tools M-Powered Essential first. MIDI Requirements USB MIDI keyboards and interfaces work effectively with Pro Tools systems on Mac or Windows. Hard Drive Requirements Pro Tools SE can be used on your system drive. A 5400 RPM drive is the minimum system requirement.

If your computer has a slower drive (but otherwise meets all the specifications) you can add a drive or use the application with some reduced track count. 2 Pro Tools SE User Guide Conventions Used in This Guide All of our guides use the following conventions to indicate menu choices and key commands: :

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.



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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. Compatibility Information www.m-audio.com/ptsefaq. Convention

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

Chapter 1: Welcome to Pro Tools SE 3 4 Pro Tools SE User Guide chapter 2 Installing Pro Tools on Mac This chapter contains information for Mac systems only. If you are installing Pro Tools on a Windows computer, see Chapter 3, "Installing Pro Tools on Windows." Installing Pro Tools SE Before installing drivers and connecting your M-Audio interface to the computer, you need to install Pro Tools SE software. Before installing this version of Pro Tools, refer to the Read Me information included on the Pro Tools SE Installer disc. Do not start this procedure with your M-Audio interface connected to your computer. To install Pro Tools SE on Mac OS X: 1 Make sure you are logged in as an Administrator- Installation Overview Installation of Pro Tools SE on a Mac includes the following steps: 1 "Installing Pro Tools SE" on page 5. 2 "Installing Device Drivers" on page 6. 3 "Connecting the Interface" on page 7. 4 "Getting Started with Pro Tools SE" on page 7. 5 Configuring your system for improved perfor- tor for the account where you want to install Pro Tools.

When the installation is complete, you will need to reboot your computer. For details on Administrator privileges in Mac OS X, see your Apple OS X documelect any session template from the list. 3 Click Audio Preview to listen to the song, then 3 Click Choose to open the template. 4 In the Save As dialog, name the session, click Choose to open the song in a Pro Tools session. choose where you want to save the session, and click Save. The "Audio Preview" button outputs audio from the sound card or audio interface set as default on your operating system. 4 Audio Preview Listening to Demo Songs You have to be able to hear your music. Listening to demo songs is an easy way to verify audio. To hear the audio from Pro Tools you will need your headphones or speakers connected to your M-Audio interface. Opening a Recent Session To open a recent session: 1 Select the Open Session button.

Make sure your volume is at a good listening level. See the User Guide that came with your system for instructions. 8 Pro Tools SE User Guide 2 From the list of recent session templates, se- lect the one you want. (Or, select Open Other... to select other recent sessions.) 3 Click to open the session. To authorize the MP3 Export Option using an authorization code: 1 Launch Pro Tools. 2 Open a session.

3 Click on a region or make a Timeline selection and choose File > Export > Audio. 4 Select Compressed MP3 as the File Type. 5 Click Export. 6 In the Pro Tools MP3 Option dialog, click Au- Viewing Tutorials To view a tutorial: 1 Select the Tutorials button. thorize.

7 In the Pro Tools MP3 Export Option dialog, select Manual Activation, then click Next. 8 In the Pro Tools MP3 Export Option dialog, deselect the Use my iLok Smart Key option, then click Next. 9 When prompted, enter your Pro Tools MP3 Export Option serial code (authorization code). 2 From the list of tutorials, click to open the cat10 Click Next and follow the on-screen instructions to complete the authorization process. egory you want.

MP3 Export Option The MP3 Export Option lets you create MP3 files from Pro Tools sessions when exporting a region or a Timeline selection as a new audio file. With the MP3 Export Option, the MP3 file type is available when using File > Export > Audio. Pro Tools uses the Fraunhofer codec for encoding MP3 files. Authorizing the MP3 Export Option The MP3 Export Option is a paid option and can be purchased and authorized when you export an audio file as an MP3. Chapter 2: Installing Pro Tools on Mac 9 Uninstalling Pro Tools If you need to uninstall 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 Administra- tor for the account where Pro Tools is installed. For details on Administrator privileges in Mac OS X, see your Apple OS X documentation. 2 Go to Applications/Digidesign/Pro Tools/ Pro Tools Utilities and double-click Uninstall Pro Tools 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. Use Safe Uninstall if you are using an Avid application or preparing to update to a CS (customer support) release.

Clean Uninstall Removes all Pro Tools files, including system files, Avid plug-ins, and MIDI patch names. Use Clean Uninstall whenever you are preparing to upgrade, or to troubleshoot from a clean system. 5 Click Uninstall. 6 Enter your Administrator password and click OK. 7 Click Finish to close the Installer window. 10 Pro Tools SE User Guide chapter 3 Installing Pro Tools on Windows This chapter contains information for Windows systems only. If you are installing Pro Tools on a Mac computer, see Chapter 2, "Installing Pro Tools on Mac." Installing Pro Tools SE Before connecting your M-Audio interface to the computer, you need to install Pro Tools SE software. Before installing this version of Pro Tools, refer to the Read Me information included on the Pro Tools SE Installer disc. Do not start this procedure with your M-Audio interface connected to your computer.

To install Pro Tools SE on Windows: 1 Start Windows, logging in with Administrator privileges. For details on Administrator privileges, refer to your Windows documentation. Installation Overview Installation of Pro Tools SE on a Windows includes the following steps: 1 "Installing Pro Tools SE" on page 11. 2 "Installing Device Drivers" on page 12 3 "Connecting the Interface" on page 13 When the installation is complete, you will need to reboot your computer.



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2 Insert the Pro Tools SE Installer disc in your 4 "Getting Started with Pro Tools SE" on DVD drive.

page 13 5 Configuring your system for improved performance (see Chapter 4, "Configuring Your Pro Tools System"). In Windows 7, if the User Account Control dialog appears, click "Allow." Chapter 3: Installing Pro Tools on Windows 11 3 Click Continue when you are prompted. 10 When installation is complete, click Finish. Software instrument Content is very large and may take up to 30 minutes to install.

During this time, the progress bar may not appear to move even though software is still installing. Do not terminate your installation. 11 When the installation is complete, the M-Audio driver dialog appears. Installing Device Drivers In Windows 7 and Windows XP, a series of Windows Security dialogs may appear. If you see "Install" or "Continue Anyway," click on each one until they go away. 4 Follow the on-screen instructions to proceed 1 When the following dialog appears, do one of the following: · Click on the icon for the device that represents the one you are installing and follow the on-screen instructions to install your device drivers. with installation and click Next when prompted. 5 To install the complete compliment of Pro Tools software and plug-ins, leave Pro Tools selected. 6 When the "Select Features" dialog appears, leave the following boxes checked: Pro Tools SE 8.0.

3 Installs all Pro Tools application files (which includes the free plug-in suite and associated content). SE Audio Loops and Demo Songs Installs additional loops and demo songs. 7 Click Next. 8 Click Install. 9 Wait for the installer to finish installing all or · Click the Other SE Device option if there is not an icon that represents the one you are installing. Then follow the on-screen instructions. 2 Follow the remaining on-screen instructions. components before proceeding to the next step. 12 Pro Tools SE User Guide 3 When installation is complete, click Restart. 3 Connect headphones, speakers or an instru- If you clicked the "Other SE Device" option then your device drivers have not yet been installed and you will need to install them now.

See the User Guide that came with your M-Audio interface for instructions on driver installation. ment to your interface so you can verify that you have sound once you launch Pro Tools. Use the "Demo Songs" option in the Quick Start dialog to verify you have sound. See "Listening to Demo Songs" on page 14.

Loops and Demo Songs Connecting the Interface 1 After the computer has started, connect your interface to your computer.

Pro Tools SE installation includes an option to install Loops and Demo Songs. The loops are pro-quality audio loops that you can use to quickly sketch out musical ideas. The demo songs let you see and hear many of the things you'll soon be doing in Pro Tools. Once these loops and demo songs are installed, they can be found in the following locations: · Programs Files\Digidesign\Pro Tools\Loops · Programs\Digidesign\Pro Tools\Demo Songs See the User Guide that came with your system for instructions on connecting your interface. In Windows 7 and Windows XP, a series of Software Installation dialogs about the driver not passing Windows Logo testing may appear.

Click "Continue Anyway" on each one until they go away. If any other dialogs appear (such as the "Found New Hardware" dialog), leave them open and do not click on them. These dialogs will close on their own. 2 Launch Pro Tools SE by double-clicking its Getting Started with Pro Tools SE The first step in beginning a Pro Tools project is creating a session. Pro Tools provides a Quick Start dialog "on launch" that lets you quickly and easily create a session, or listen to demo songs and view tutorials. To launch Pro Tools 1 Double-click the Pro Tools SE shortcut on your icon on your desktop. Pro Tools SE application icon desktop (or the application icon in the Pro Tools folder inside the Digidesign folder). 2 Use the Quick Start dialog to do one of the following: · Create a session from templates. Chapter 3: Installing Pro Tools on Windows 13 · Listen to demo songs (lets you verify sound). · Open any other session on your system.

· Open and view tutorials. To listen to a demo song: 1 Select the Demo Songs button. Creating a Session from a Template To create a new session from a template: 1 Select the default New Session button. 2 From the list of music styles, select the cate- gory you want (or select an item from a submenu). 3 Click Audio Preview to listen to the song, then click Choose to open the song in a Pro Tools session. 2 Select any session template from the list. 3 Click Choose to open the template. 4 In the Save As dialog, name the session, The "Audio Preview" button outputs audio from the sound card or audio interface set as default on your operating system. Opening a Recent Session To open a recent session: 1 Select the Open Session button. choose where you want to save the session, and click Save.

Listening to Demo Songs You have to be able to hear your music. Listening to demo songs is an easy way to verify audio. To hear the audio from Pro Tools you will need your headphones or speakers connected to your M-Audio interface. Make sure your volume is at a good listening level. See the User Guide that came with your system for instructions.

2 From the list of recent session templates, se- lect the one you want. 14 Pro Tools SE User Guide 3 Click to open the session. 2 Open a session. 3 Click on a region or make a Timeline selection and choose File > Export > Audio. 4 Select Compressed MP3 as the File Type.

5 Click Export. 6 In the Pro Tools MP3 Option dialog, click Au- Viewing Tutorials To view a tutorial: 1 Select the Tutorials button. thorize. 7 In the Pro Tools MP3 Export Option dialog, select Manual Activation, then click Next. 8 In the Pro Tools MP3 Export Option dialog, deselect the Use my iLok Smart Key option, then click Next. 9 When prompted, enter your Pro Tools MP3 Export Option serial code (authorization code). 2 From the list of tutorials, click to open the cat- egory you want. Click Next and follow the on-screen instructions to complete the authorization process. MP3 Export Option The MP3 Export Option lets you create MP3 files from Pro Tools sessions when exporting a region or a Timeline selection as a new audio file. With the MP3 Export Option, the MP3 file type is available when using File > Export > Audio.

Pro Tools uses the Fraunhofer codec for encoding MP3 files. Uninstalling Pro Tools Use the Uninstall Pro Tools application to uninstall Pro Tools software from your computer. To uninstall Pro Tools from your computer: 1 Start Windows, logging in with Administrator privileges.



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For details on Administrator privileges, refer to your Windows documentation. 2 Go to C:\Program Files\Digidesign\Authorizing the MP3 Export Option The MP3 Export Option is a paid option and can be purchased and authorized when you export an audio file as an MP3. (Only for interfaces that use hardware requiring external power). 3 Turn off your computer. 6 Turn off any control surfaces. To change Pro Tools preferences: 1 Launch Pro Tools. 2 Use this option when you create music by playing into Pro Tools. 3 You can also verify your audio device. 4 Channels Displays the number of control channels supported by the selected MIDI control surface type. To create a new session with your preferred settings: 1 Click Session. 2 Select the Bit Depth (16 bit or 24 bit) and the Sample Rate (44.1 kHz, 48 kHz, 88.

2 kHz or 96 kHz). 3 Check Show Rewire Clients in Instrument List if you want a ReWire application to be available in an Instrument list. 4 Check External MIDI Ports if you want an external MIDI device to be available in an Instrument list. 5 Click OK to save your changes and close the Preferences dialog.

Session Tab This tab lets you easily create a new Pro Tools session with your usual settings.

It also lets you "hide" or "show" Pro Tools compatible ReWire client applications and external MIDI ports within Pro Tools. Compatible ReWire client applications and external MIDI devices are automatically detected by Pro Tools and are available in the Instrument list on Instrument tracks. Selecting Bit Depth and Sample Rate When selecting a bit depth or sample rate for your session, consider fidelity, any compatibility issues with others systems, and storage space. Bit depth and sample rate also have an effect on the amount of mixing power available in a session. Fewer mixer channels are available with 24-bit sessions and with sessions at higher sample rates. It is not possible to combine different bit depths within a single Pro Tools session: files of different bit depths must be converted and imported into the session. Session tab Chapter 4: Configuring Your Pro Tools System 19 Optimizing a Mac System for Pro Tools To ensure optimum performance with Pro Tools, configure your computer before using Pro Tools hardware and software. Disable or Reassign Mac Keyboard Shortcuts Used by Pro Tools To have the full complement of Pro Tools keyboard shortcuts, you need to disable or reassign any conflicting Mac OS X Keyboard Shortcuts in the Apple System Preferences, including the following: · "Show Help menu" · Under "Keyboard Navigation" · "Move focus to the window drawer" · Under "Dock, Exposé, and Dashboard" · "Automatically hide and show the Dock" · "All windows" · "Application windows" · "Desktop" · "Dashboard" · "Spaces" · Under "Spotlight" · "Show Spotlight search field" · "Show Spotlight window" For Windows System Optimization, see "Optimizing a Windows System for Pro Tools" on page 22. 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, see your Apple OS X documentation.

Turning Off Software Update 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 been qualified for Pro Tools. For details on qualified versions of Mac OS, visit www.avid.com/compatibility. To turn off the Software Update feature: 1

Choose System Preferences from the Apple menu and click Software Update. 2 Click the Scheduled Check tab. 3 Deselect "Check for Updates." For a complete list of Pro Tools keyboard shortcuts, see the Keyboard Shortcuts Guide (Help > Keyboard Shortcuts).. To disable or reassign Mac OS X keyboard shortcuts: 1 Choose System Preferences from the Apple menu and click Keyboard.

2 Click the Keyboard Shortcuts tab. 3 Do one of the following: Turning Off Energy Saver To turn off the Energy Saver feature: 1 Choose System Preferences from the Apple menu and click Energy Saver. 2 Do the following: · Deselect the Mac OS X options that conflict with Pro Tools keyboard shortcuts. or · Assign different, non-conflicting keyboard shortcuts to the corresponding Mac OS X options. · Set the computer sleep setting to Never.

· Set the display sleep setting to Never. · Deselect "Put the hard disk(s) to sleep when possible." 20 Pro Tools SE User Guide Reassign Spaces Keyboard Shortcuts If you want to use Spaces, you should reassign the Spaces keyboard shortcuts to avoid conflicts with important Pro Tools keyboard shortcuts. You can reassign Spaces keyboard shortcuts to use a combination of modifier keys (Command+Option+Control+Shift) in addition to the default Spaces keyboard shortcut assignments to avoid these conflicts. To reassign Spaces keyboard shortcuts to use modifier key combinations that do not conflict with Pro Tools keyboard shortcuts: 1 Choose System Preferences from the Apple menu and click Pro Tools system performance.

You may want to disable Spotlight indexing for all local drives before using Pro Tools for big recording projects. Disabling Spotlight indexing also disables the Find function in Mac OS. To disable Spotlight indexing: 1 Choose System Preferences from the Apple menu and click Spotlight. 2 In the Spotlight window, click the Privacy tab. 3 To prevent indexing of a drive, drag its icon from the desktop into the list. menu and click Exposé & Spaces. 2 Click the Spaces tab. 3 Ensure that Enable Spaces is selected. 4 Press and hold Command+Option+Con- Enabling Journaling for Audio Drives To yield higher performance from audio drives, enable journaling. To enable journaling: 1 Launch the Disk Utility application, located in `~/Applications/Utilities` and select "Control+Option+Shift+Command+F8" from the "To activate Spaces" pop-up menu.

5 Press and hold Command+Option+Con- Macintosh HD/Applications/Utilities. 2 Select the volume in the left column of the `~/Applications/Utilities` and select "Control+Option+Shift+Command+Arrow Keys" from the "To switch between spaces" pop-up menu. 6 Press and hold Command+Option+Con- Disk Utility window. 3 Select Enable Journaling in the toolbar. `~/Applications/Utilities` and select "Control+Option+Shift+Command+Number Keys" from the "To switch directly to a space" pop-up menu. Disabling Spotlight Indexing The Mac OS X Spotlight feature automatically indexes files and folders on local hard drives in the background. In most cases, this is not a concern for normal Pro Tools operation. However, if Spotlight starts indexing drives while recording in a Pro Tools session with high track counts for an extended period of time, it can adversely Chapter 4: Configuring Your Pro Tools System 21 Optimizing a Windows System for Pro Tools To ensure optimum performance with Pro Tools SE, configure your computer before using Pro Tools SE hardware and software.



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4 In the right pane, click the triangle (Windows 7) or the plus (+) sign (Windows XP) next to IDE ATA/ATAPI Controllers. 5 Double-click on an IDE Channel.

6 Click the Advanced Settings tab. 7 Under Device Properties, check the Enable For Mac System Optimization, see "Optimizing a Mac System for Pro Tools" on page 20. 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, see your Windows documentation. DMA box (Windows 7), or under each listed Device, set the Transfer Mode to DMA if available (Windows XP).

8 Click OK. 9 Repeat for each IDE Channel. Configuring Windows Power Management Settings Pro Tools requires maximum CPU performance for optimal RTAS processing and disk streaming. For best performance, use the following recommended Windows Power Management settings. To configure Windows Power Management Settings (Windows 7): 1 Choose Start > Control Panel.

2 Click Hardware and Sound > Power Options. 3 In the Power Options control panel, click High Recommended Optimizations To ensure optimum performance with Pro Tools, configure the following settings before using 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 your computer can do other Pro Tools tasks. In most cases the DMA option will already be set correctly, as Windows detects and activates DMA mode by default. To enable DMA for any IDE hard drives (Windows 7, Windows XP): 1 Choose Start. 2 Right-click Computer (Windows 7) or My Computer (Windows XP). 3 Click Change plan settings. 4 Click Change advanced power settings to change additional settings. 5 Click Change settings. 6 Click Hard disk > Turn off hard disk after = Never.

You can make optional changes such as disabling sleep and disabling shutting down the monitor. 7 Click OK or click Save changes to save the changes (Windows XP) and choose Manage. 3 In the left pane of Computer Management under System Tools, click on Device Manager. 22 Pro Tools SE User Guide To configure Windows Power Management Settings (Windows XP): 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 Additional Optimizations Pro Tools can also be affected by other software and hardware drivers installed on your computer. For best possible performance, 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 non-essential USB devices while running Pro Tools.
- If your video display card supports it, enable Bus Mastering in the manufacturer's Control Panel. See the manufacturer's instructions for details. Always On.

5 Verify that the following settings are set to Never: · Turn off hard disks · System standby · System hibernates 6 Click OK. Disabling User Account Control (Windows 7) Some third-party applications that interface with Pro Tools may require UAC to be disabled for proper operation. To disable User Account Control (UAC): 1 Choose Start > Control Panel. 2 Click User Accounts and Family Safety. 3 In the User Accounts and Family Safety control panel, click User Accounts.

4 Click Change User Account Control settings (Windows 7). 5 Move the User Account Control slider to Never Notify (Windows 7). 6 Click OK. 7 Restart your computer. Chapter 4: Configuring Your Pro Tools System 23 24 Pro Tools SE User Guide appendix a Hard Drive Configuration and Maintenance Pro Tools SE software can be installed and used on your system drive. Session files and audio can then be created and recorded to your system drive. Session files are the documents you create for each song or project. Audio files refer to the files you record or import into each session. A 5400 RPM drive is the minimum system requirement. If you are using an older computer, if your computer has a slower drive (but otherwise meets all the specifications), we recommend either using the application with some reduced track count or using an external or secondary internal audio drive to store your Pro Tools SE sessions and audio.

For example, if you plan to record and play back many tracks simultaneously, we recommend using a second hard drive dedicated to saving and recording your session and audio files. When creating new session files, save them to this second hard drive and then all audio files will also record and save to this hard drive. Formatting an Audio Drive Always back up any important data on your drive before formatting it, as formatting will erase all data on the drive. Formatting Mac Audio Drives For optimum performance, audio drives should be formatted as Mac OS Extended (Journaled). To format an audio drive: 1 Launch the Disk Utility application, located in Macintosh HD/Applications/Utilities. 2 Click the Erase tab. Disk Utility (Mac OS X) 3 Select the drive you want to initialize in the column on the left side of the window. Hard Drive Configuration and Maintenance 25 4 Choose the Mac OS Extended (Journaled) format. 3 If the volume is "Healthy," do the following: Do not choose the "Case-Sensitive" format option. Pro Tools will not operate properly with case-sensitive formatted drives.

5 Type a name for the new volume. 6 If you plan to connect the drive to a Mac OS 9 Healthy volumes are volumes that have previously been partitioned and formatted. · In the Disk Management window, rightclick the hard drive you will use for audio and choose Format. · In the Format window, name the volume. · Choose a file system.

For optimum performance, audio drives should be formatted as NTFS. · Select Perform a quick format. @@ · Set the Allocation unit size to Default. @@@@ · In the New Partition Wizard window, click Next. @@ · When prompted, choose a file system.

For optimum performance, audio drives should be formatted as NTFS. · Select Perform a quick format. @@ · Set the Allocation unit size to Default. · Click OK. Disk Management window (Windows XP) 26 Pro Tools SE User Guide Partitioning Drives Partitioning creates a logical volume or volumes on a physical drive, almost as if you were creating virtual hard drives. Partitions can then be formatted with the appropriate file system (NTFS for Windows, HFS+ for Mac). Mac OS allows drives larger than 4096 MB to be seen as whole volumes. Drives must be initialized with a disk utility that recognizes the 2 terabyte limit. Single Pro Tools audio files cannot exceed 3.4 GB in size.



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Windows XP allows drives formatted with the NTFS file system to be seen as whole volumes. Single Pro Tools audio files cannot exceed 3.4 GB in size. Seek Times on Partitioned Drives Seek times are actually faster on partitioned drives (assuming that reads and writes are performed on a single partition), since the heads only have to seek within the partition boundaries, rather than the whole capacity of the drive. Smaller partitions perform faster than larger partitions, but this comes at the expense of contiguous storage space. When you partition a drive, you will need to find the compromise that best suits your performance and storage requirements. Avoid distributing audio files within a session over different partitions on the same drive since this will adversely affect drive performance. Hard Drive Configuration and Maintenance 27 Hard Disk Storage Space Mono audio tracks recorded with 16-bit resolution at 44.1 kHz (CD quality) require approximately 5 MB of hard disk space per minute. The same tracks recorded with 24-bit resolution require about 7.5 MB per minute. Stereo audio tracks recorded with 16-bit resolution at 44.1 kHz (CD quality) require approximately 10 MB of hard disk space per minute. The same tracks recorded with 24-bit resolution require about 15 MB per minute. Table 2 lists the required disk space for certain track numbers and track lengths, to help you estimate your hard disk usage.

Table 2. Required hard drive space for audio tracks (44.1 kHz and 48 kHz sessions shown) Number of Tracks and Length 16-bit at 44.1 kHz 5 MB 50 MB 16-bit at 48 kHz 5.5 MB 55 MB 24-bit at 44.1 kHz 7.5 MB 75 MB 24-bit at 48 kHz 8.2 MB 83 MB

1 mono track, 1 minute 1 stereo track (or two mono tracks), 5 minutes 1 stereo track (or two mono tracks), 60 minutes 24 mono tracks, 5 minutes 24 mono tracks, 60 minutes 32 mono tracks, 5 minutes 32 mono tracks, 60 minutes 600 MB 662 MB 900 MB 991 MB 600 MB 7 GB 800 MB 9.4 GB 662 MB 7.8 GB 883 MB 10.4 GB 900 MB 10.5 GB 1.2 GB 14 GB 991 MB 11.6 GB 1.3 GB 15.

4 GB 28 Pro Tools SE User Guide appendix b Resources Whether you are new to Pro Tools or just starting out with your new system, we encourage you to read and utilize the many guides that Pro Tools provides. There are also useful online resources available, giving you everything from Pro Tools tips to Pro Tools answers. Guides Accessible in Pro Tools The main Pro Tools guides are accessible from the Pro Tools Help menu. (Choose Help, then select a guide.)

These include: · Pro Tools SE User Guide About the Pro Tools Guides In addition to any printed guides included with your system, PDF versions of the printed guides and many additional Pro Tools guides are installed automatically during Pro Tools installation (see "Documentation Installed Automatically with Pro Tools SE" on page 30). · Pro Tools SE Shortcuts Guide · Hardware Guides · KeyStudio User Guide · Recording Studio User Guide · Vocal Studio User Guide · Interactive Projects Guide You can download the guide for whatever interface you have. Go to: <http://www.m-audio.com/manuals> User Guide

The User Guide for your system gives you detailed instructions for setting up and configuring software and hardware for optimum performance. Printed Quick Setup Instructions The printed Quick Setup instructions give you easy-to-follow steps for setting up your software and hardware.

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· Get useful information, help, and tips from the worldwide community of Pro Tools users at the online User Conference. Go to: <http://duc.avid.com> · If you can't find your answer on the User Conference or the Knowledge Base, contact Avid email support. Go to: <http://www.avid.com/support> 30 Pro Tools SE User Guide index A Avid customer success 3 R removing Pro Tools Mac 10 Windows 15 C Clean Uninstall (Mac) 10 S Safe Uninstall (Mac) 6, 10 Software Update (Mac), turning off 20 Spotlight indexing (Mac), disabling 21 system recommended optimizations (Windows) 23, 22 shutting down 17 system optimization Mac 20 Windows 22 D DMA option (Windows), enabling 22 drive formatting Mac 25 Windows 26 E Energy Saver (Mac), turning off 20 H hard drives formatting 25, 26, 25 partitioning 27 space requirements 28 T technical support 3 U uninstalling Pro Tools Mac 10 Windows 15 User Account Control (UAC) disabling 23 I installing Pro Tools SE Mac 5 Windows 11 J journaling (Mac), enabling 21 P partitioning hard drives 27 Pro Tools capabilities 1 removing (Mac) 10, 15 Index 31 Avid 2001 Junipero Serra Boulevard Daly City, CA 94014-3886 USA Technical Support (USA) Visit the Online Support Center at www.avid.com/support Product Information For company and product information, visit us on the web at www.avid.com.



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