NoiseTutor System Manual





Larson Davis

NoiseTutor System Manual

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Model 831 or

SoundTrack LxT:	Serial Number:
Preamplifier Model:	Serial Number:
Microphone Model:	Serial Number:

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CHAPTER

Introduction

This manual describes how to set up and configure the Larson Davis NoiseTutor System. The NoiseTutor System is designed to interact with noise monitoring stations. It provides portable and remote observation of monitoring sites through a web interface.

Setting up the NoiseTutor System includes the following steps:

Step 1 Setting up the NoiseTutor station

Step 2 Configuring the NoiseTutor server

Step 3 Installing the NoiseTutor System software, if not already pre-installed.

Figure 1-1 shows the components and architecture of the NoiseTutor System.

The NoiseTutor System software comes pre-installed when NoiseTutor is purchased as a system.



FIGURE 1-1 Components and Architecture - NoiseTutor System

Setting up the NoiseTutor Station

Start by reading the NoiseTutor Quick Start Guide. It is a card located inside your station case that describes the steps for deploying your NoiseTutor station.

The NoiseTutor Installation Reference is located inside your NoiseTutor station case and describes the assembly and operation of your station. To set up your NoiseTutor station, refer to the NoiseTutor Quick Start Guide and the NoiseTutor Installation Reference.

The NoiseTutor station consists of the following:

- The NoiseTutor Quick Reference Guide
- The NoiseTutor Installation Reference
- Model 831 or SoundTrack LxT[®] sound level meter
- Preamplifier model PRM831, PRMLxT1, PRMLxT1L, PRMLxT2, or PRMLxT2L.
- Microphone model number 377B02 or 377B20
- Microphone cable connecting Model 831 to preamplifier/microphone

Note: Larson Davis does not supply an active SIM card. You must obtain one separately. Active SIM card

Refer to the NoiseTutor Installation Reference on the inside of the NoiseTutor case to install your system hardware.

Configuring the NoiseTutor Server

Larson Davis provides server configuration aids with the NoiseTutor System to provide web access to sound level monitoring sites. This includes the NoiseTutor Server Configuration Tool that can be used with the instructions in this manual to set up a server on a Windows-based computer. The server consists of both a website--with a collection of pre-designed web pages--and an FTP site.

The pre-designed server web pages present information from each monitoring site in the following forms:

- Ten-minute report
- One-hour report
- One-day report
- One-week report
- One-month report

Although you can use any web site server that is capable of rendering HTML pages, along with Java Script, with the NoiseTutor System, the configuration aids in this manual describe the steps for using Internet Information Services (IIS) from Microsoft. This manual describes configuration with IIS because it is currently the most common web server for Windows and it is available at no cost.

By setting up an FTP site, you can collect noise monitoring data from Noise Tutor clients. This data can then be displayed in graphic reports for each monitoring site on a web site.

The process of installing and configuring the NoiseTutor Server involves complex and technical tasks, and generally requires the services of an IT professional. For your assistance, detailed instructions for installing and configuring the NoiseTutor Server on a Windows 7 platform are provided in this manual.

The NoiseTutor System also functions on Windows XP SP 3 and Windows Vista SP 1. However, the steps and options are

Although the NoiseTutor system provides server configuration aids, you are responsible for setting up the web server. different than those represented in this manual. To install and configure the NoiseTutor System on these platforms, Larson Davis recommends that you consult with an IT professional. Detailed instructions for setting up a server on other platforms are not available from Larson Davis.

System requirements for NoiseTutor Server Configuration

- Windows 7 SP 1, Server or Professional editions. Server edition is recommended.
- IIS 5.1 or higher
- One or more NoiseTutor Noise Monitoring Systems
 (NMS)
- One 831 analyzer serial number for each NMS

Installing NoiseTutor System Software

The NoiseTutor System software comes pre-installed when ordering the NMS-021 (with Model 831 or SoundTrack LxT analyzers), and the EPS 041 (without Model 831 or SoundTrack LxT analyzers). For other configurations, the software must be installed on the PC that is connected to the sound level meter. The software interacts with noise monitoring stations by downloading measured data from the sound level meters at predefined intervals. It then sends data or graphical reports to specified recipients. If your system does not include pre-installed software, refer to the instructions in the chapter "Installation and Setup."

System Requirements for NoiseTutor System Software

- Larson Davis analyzers 824, 831 and SoundTrack LxT.
- All Windows operating system versions, starting from Windows 2000.

CHAPTER

2

Setting up the NoiseTutor Server

Although the NoiseTutor System provides server configuration aids, you are responsible for setting up the web server. This chapter lists and describes the steps for setting up the NoiseTutor server on the Windows 7 operating system. To install the server, complete the following process:

- 1. Install IIS on Windows 7.
- 2. Configure the IIS web server.
- 3. Install the NoiseTutor Server Configuration Tool.
- 4. Run the NoiseTutor Server Configuration Tool.
- 5. Create an FTP user account.
- 6. Configure the Windows Firewall.

Each step is described in more detail in the following sections.

Before You Begin: The process of installing and configuring the NoiseTutor Server involves complex and technical tasks, and generally requires the services of an IT professional. These detailed instructions are provided for the convenience of an IT professional working with your NoiseTutor System.

Installing IIS on Windows 7

The NoiseTutor System also functions on Windows XP SP 3 and Windows Vista SP 1. However, the steps and options are different than those represented in this manual. To install and configure the NoiseTutor System on these platforms, Larson Davis recommends that you consult with an IT professional. Detailed instructions for setting up a server on other platforms are not available from Larson Davis.

Installing the IIS addin provides your host PC with both web- and FTP-server functionality. If you do not want to use IIS, you will need to supply your own web server and FTP server. To install IIS, follow these steps: **Step 1** On the Start menu, click **Control Panel**.

If the **Programs and Features** icon is not displayed in your Control Panel, click the drop down arrow in the address bar following the words "Control Panel." Click **All Control Panel Items**. The **Programs and Features** icon should then appear with other icons in your Control Panel.

Step 2 Click Programs and Features.

Step 3 On the left window border, click **Turn Windows** features on or off, as shown in FIGURE 2-1.

ile Edit View Tools Help					
Control Panel Home		or change a program I a program, select it from the list and then	click Uninstall, Change, or Repai	r.	
off	Organize 🔻				?
Install a program from the network	Name	<u></u>	Publisher	Installe	d
	Adobe Read Apple Applic Apple Apple Apple Softwa Citrix XenApi Citrix X	ation Support are Update P Plugin for Hosted Apps ubversion Edge y Pack for the 2007 Office system rts Basic for Visual Studio 2008 rts Basic Runtime for Visual Studio 2008 (rork Connections 15.7.176.0 ol Center raphics Driver gement Engine Components ipdate 18 (64-bit)	Intel Intel Corporation Intel Corporation Sun Microsystems, Inc. Oracle Symantec Corporation Microsoft Corporation	11/15/2 2/25/20 11/15/2 11/15/2 11/15/2 11/15/2 4/28/20 4/26/20 4/26/20 4/26/20 4/26/20 2/25/20 11/15/2 2/25/20 4/28/20	01(201 201 201 011 011 011 011 011 011 011

FIGURE 2-1 Turn Windows Features On or Off

Step 4 Select Internet Information Services.

Step 5 Expand Internet Information Services.

Step 6 Expand **FTP Server**. Select all items, as shown in FIGURE 2-2.

Step 7 Select **Web Management Tools**, as shown in FIGURE 2-2. Accept all defaults.

Step 8 Select **World Wide Web Services**, as shown in FIGURE 2-2. Accept all defaults.



FIGURE 2-2 Windows Features - Internet Information Services

Step 9 Click **OK**. Wait for Windows to make changes, as shown in FIGURE 2-3.



FIGURE 2-3 Microsoft Windows - Please Wait

Configuring the IIS Web Server

You can configure the IIS web server to set up your NoiseTutor web site. The following configuration places the web pages for your site in a virtual directory and sets the FTP server upload location as a subdirectory of that virtual directory. To set up your web site, follow these steps:

Step 1 Browse to c:\inetpub\wwwroot\. Click the New Folder button and name it LarsonDavis.

Step 2 Open **inetmgr** at the following location: c:\windows\system32\inetsrv\inetmgr.exe.

Step 3 Expand the name of your computer.

Step 4 Expand Sites.

Step 5 Depending on your operating system, you may have the option of creating a new web site. Otherwise, you may be provided only with the default web site option, as shown in FIGURE 2-4.



FIGURE 2-4 IIS Manager - Expand Sites

Step 6 Select Default Web Site.

Step 7 Select View Virtual Directories, as shown in FIGURE 2-5.



FIGURE 2-5 IIS Manager - View Virtual Directories

Step 8 Click **Add Virtual Directory**, as shown in FIGURE 2-6.



FIGURE 2-6 IIS Services Manager - Add Virtual Directory

Step 9 In the **Add Virtual Directory** dialog box, **Alias**, type **LarsonDavis** in the Alias field, as shown in FIGURE 2-7.

Larson Davis strongly recommends that you specify, select, or accept all defaults for your configuration, as demonstrated in this manual. **Step 10** For Physical path, specify **LarsonDavis** as the default root directory by typing the path as shown in FIGURE 2-7.

Site name: Default Web Site Path: /		
<u>A</u> lias:		
LarsonDavis		
Example: images		
Physical path:		
C:\inetpub\wwwroot\LarsonDavis		1
Pass-through authentication		
Connect as Test Settings		

FIGURE 2-7 Add Virtual Directory - Connect As

Step 12 In the **Connect As** dialog box, select the **Application user (pass-through authentication)** option and click **OK**, as shown in FIGURE 2-8.

Path credentials:		
Specific <u>u</u> ser:		(
		<u>S</u> et
Application user (pass-thr	ough authentication)	
		99

FIGURE 2-8 Connect As - Application User (pass through authentication)

Application user settings should not include errors, but can include warnings about being unable to verify access to the virtual directory. Such warnings are permissible because the user names and passwords are not available until the user accesses the web site. **Step 13** Select the application path and click **Edit Permissions...**, as shown in FIGURE 2-9.



FIGURE 2-9 IIS Manager - Edit Permissions

Step 14 On the LarsonDavis Properties sheet, click the **Security** tab, as shown in FIGURE 2-10.

Step 15 Select the user or group that will access the web site, as shown in FIGURE 2-10. Ensure the user or group has the following permissions:

A. Read & execute

B. List folder contents

C. Read

It is recommended that you not grant other permissions.

Step 16 Click **Apply** if you have made changes. Otherwise, click **OK**.

LarsonDavis Properties		_	x			
General Sharing Security Previou	s Versions Cu	stomize				
Object name: C:\inetpub\www.root	\LarsonDavis					
Group or user names:						
& Administrators (UTP143W\Admin	nistrators)					
& Users (UTP143W\Users)						
IIS_IUSRS (UTP143W\IIS_IUS	RS)					
Constantinetallar			-			
•		- P.				
To change permissions, click Edit.		Edit				
			_			
Permissions for IIS_IUSRS	Allow	Deny				
Full control			-			
Modify						
Read & execute	~		=			
List folder contents	~					
Read	~					
Write			-			
For special permissions or advanced s click Advanced.	settings,	Ad <u>v</u> anced				
Learn about access control and perm	Learn about access control and permissions					
ОК	Cancel) <u>A</u> pp	ly			

FIGURE 2-10 Larson Davis Properties - Security

Step 17 Expand **Default Web Site** and double-click **LarsonDavis**.

Step 18 Double-click **Default Document**, as shown in FIGURE 2-11.



FIGURE 2-11 IIS Manager - Default Document

Step 19 Remove all default documents except for index.html

Step 20 If **index.html** is not present, click **Add** and in the **Add Default Document** dialog box, type **index.html** and then click **OK**, as shown in FIGURE 2-12.

Add Default Document		? <mark>×</mark>
<u>N</u> ame:		
index.html		
	OK	Cancel

FIGURE 2-12 Add Default Document

Step 21 Close the IIS Manager.

Installing the NoiseTutor Server Configuration Tool

To install the NoiseTutor Configuration Tool, follow these steps:

Step 1 Insert NoiseTutor CD into your CD/DVD drive.

Step 2 If auto start is not enabled, Click **[CD / DVD]\NoiseTutorConfigurationInstaller.exe**.

Step 3 On the NoiseTutor Configuration Tool Setup Wizard, Click **Next**, as shown in FIGURE 2-13.

B Noise tutor configuration tool	
Welcome to the Noise tutor configuration tool Setup Wizard	
The installer will guide you through the steps required to install Noise tutor confi computer.	guration tool on your
WARNING: This computer program is protected by copyright law and internatio Unauthorized duplication or distribution of this program, or any portion of it, may or criminal penalties, and will be prosecuted to the maximum extent possible un	result in severe civil
Cancel < <u>B</u> ack	<u>N</u> ext>

FIGURE 2-13 Configuration Tool Installer - Welcome

Step 4 Select the folder where you want to install the NoiseTutor Configuration Tool, as shown in FIGURE 2-14.

Step 5 Select either Everyone or Just me.

Noise tutor configuration tool	
Select Installation Folder	
The installer will install Noise tutor configuration tool to the following folder. To install in this folder, click "Next". To install to a different folder, enter it be	slow or click "Browse".
Eolder: C:\Program Files (x86)\PCB Piezotronics\Noise tutor configuration too	B <u>r</u> owse Disk Cost
Install Noise tutor configuration tool for yourself, or for anyone who uses the Everyone Just <u>m</u> e	nis computer:
Cancel < Back	Next >

FIGURE 2-14 Configuration Tool Installer - Select Installation Folder

Step 7 To confirm the installation, click **Next** again. The wizard displays the installation progress as shown in FIGURE 2-15.



FIGURE 2-15 Configuration Tool - Installing NoiseTutor Configuration Tool

Step 8 Click Close.

Running the NoiseTutor Configuration Tool

The NoiseTutor Configuration Tool can be used to set up the following functionality on the server:

- Generate web pages.
- Request specific monitoring site information to populate web page templates.
- Generate and send graphical reports to a specified location.

You are responsible for assigning users and giving them the correct permissions to any FTP upload directories you create with the NoiseTutor Configuration Tool. • Create an FTP directory for uploading site information.

To run the NoiseTutor Configuration Tool, follow these steps:

Step 1 On the **Start** menu, click **Computer**. Browse to the **ConfigurationTool.exe** file, and double-click it, as shown in FIGURE 2-16.

- A. For 64-bit Windows 7 operating systems, the file is located at c:\program files (x86)\PCB Piezotronics\NoiseTutor configuration tool\ConfigurationTool.exe.
- B. For 32-bit Windows 7 operating systems, the file is located at c:\program files\PCB Piezotronics\NoiseTutor configuration tool\ConfigurationTool.exe.



FIGURE 2-16 Configuration Tool - Launch

Step 2 If you are configuring a new site, click **New Configuration** on the **File** menu of the NoiseTutor Site Configuration Tool dialog box. Skip to step 6.

Step 3 If you are modifying an existing configuration, click **Open Configuration** on the **File** menu.

Step 4 From the Open box, browse to the location of your existing site configuration file (.csf) and double-click it.

Step 5 For Monitoring Site information, provide decimal values for the Latitude and Longitude coordinates of your site, as shown in FIGURE 2-17. Refer to Google Maps, for help in finding these values for your site.

Step 6 For Zoom, type a numeric value for the zoom level of the Google map to display for your site. The number you specify corresponds to the Google Maps designation of zoom levels, where zero (0) displays a map of the world and 21 displays an individual building. Larson Davis provides a default value of 12.

Step 7 For Sound Level Meter, specify the Type by selecting either **831** or **LxT**. The model type is shown on the front of your analyzer in the Larson Davis name.

Step 8 For Serial Number, specify your analyzer serial number. You can find the serial number by turning on your analyzer with the (O (ON/OFF) button, pushing the (O (TOOLS) key, scrolling to the **About** folder, selecting the folder by pressing (ENTER), and retrieving the number displayed in the Instrument Information section.

Step 9 Provide the appropriate information for the remaining fields in this box.

	or Site Co	onfiguration To				
<u>F</u> ile <u>S</u> ites	<u>G</u> ene	erate Sites				
1046						
- Monitoring Sit	te					
Latitude:	40.24	5296	City:		Provo	
Longitude:	- <mark>111.6</mark>	88256	Cour	ntry:	USA	
Zoom:	12					
- Sound Leve	el Meter		Cor	mpan	у	
Type:		831	▼ Cor	mpan	y:	Larson Davis
Serial Numb	er:	1046	Em	iail Ac	dress:	info@LarsonDavis.com
Connection	Type:	Lan	•			
						Custom Aliases
					-	

FIGURE 2-17 Configuration Tool - Information Launch3

Step 10 Repeat steps one through six for each site, as needed.

Step 11 On the File menu, click Save Configuration.

Step 12 Click **Generate Sites** to create the web files for the current configuration.

Step 13 In the Browse for Folder box, click the folder location that you specified for your virtual directory.

Step 14 In the Confirm Delete box, click **Yes** to delete current web files. All previous files in the virtual directory are deleted prior to regenerating the new files. Click **No** to leave all previous files during generation. Duplicate files are overwritten.

Step 15 On the Successful Generation box, click OK.

Step 16 To close NoiseTutor Site Configuration Tool, click **Exit** on the **File** menu.

Creating User Accounts for FTP Uploads

You can create user accounts for your FTP client to authenticate itself with an FTP server. User accounts should have write access permissions to the FTP server **UploadImages** folder, and any sub-folders, but any additional rights are best left restricted. To create a user account, follow these steps:

- **Step 1** On the Start menu, click **Control Panel**.
- Step 2 Click Administrative Tools.
- Step 3 Double-click Computer Management.
- Step 4 Expand Local Users and Groups.
- Step 5 Click the Users folder, as shown in FIGURE 2-18.



FIGURE 2-18 Computer Management - Users

Step 6 On the Action menu, click New User.

If Administrative Tools is not displayed in your Control Panel, click the drop down arrow in the address bar following the words "Control Panel." Click All Control Panel Items. The Administrative Tools icon should appear with other icons in your Control Panel. Larson Davis strongly recommends that you specify, select, or accept all defaults for your configuration, as demonstrated in this manual. **Step 7** In the New User box, provide the user name, full name, description; and create a password as shown in FIGURE 2-19. The default name for user accounts is **UploadUser**. Do not select any additional options on this box.



<u>U</u> ser name:	UploadUser				
<u>F</u> ull name:	UploadUser				
Description:	UploadUser				
<u>P</u> assword:	•••••				
<u>C</u> onfirm passwo	ord:				
	change password at next logon				
User <u>m</u> ust c					
	ot change password				
U <u>s</u> er canno Pass <u>w</u> ord n	never expires				
User canno	never expires				

FIGURE 2-19 New User - Create

Step 9 Click Close.

Step 10 Click the name of the user account, or the default name **UploadUser**, if applicable, as shown in FIGURE 2-20.

<u>File Action View Help</u>			
🗢 🔿 🙍 🖬 🗶 🗟 🕹	? 🗊		
Computer Management (Local	Name	Full Name	Description
 If System Tools If Task Scheduler If Event Viewer If Shared Folders 	Admin Administrator John NoquestsPl	John	Built-in account for administering John Built-in account for quest access t
 Local Users and Groups Users Groups Or Performance Device Manager 	🕵 UploadUser	UploadUser	UploadUser
Storage Disk Management Services and Applications			

FIGURE 2-20 Computer Management - Upload User

Step 11 Provide the user account with the appropriate permissions to the FTP upload folder **UploadImages** and its sub-folders. This folder is a sub-folder in your NoiseTutor virtual directory. Permission options may vary but should include write access. It is best to restrict permissions to only the **UploadImages** folder and any sub-folders.

Step 12 On the Actions menu, click Properties.

Step 13 Click the Member Of tab.

Step 14 On the Properties dialog box, select any entries listed under Member of: and click Remove, as shown in FIGURE 2-21.

Step 15 Click Apply.

Step 16 Click OK.

JploadUser Properties			? ×
General Member Of	Profile		
Member of:			
	Changes	to a usaria araun m	embership
Add	Remove are not e	to a user's group m ffective until the ne on.	at time the
ОК	Cancel	Apply	Help

FIGURE 2-21 UploadUser Properties - Member of

Step 17 To close the Computer Management screen click **Exit** on the **File** menu.

Step 18 Close the Administrative Tools screen and the Control Panel.

Step 19 From the Start menu, click Computer.

Step 20 Browse to the default virtual directory at c:\inetpub\wwwroot\LarsonDavis\UploadImages, as specified in step 7.

Step 21 Right-click UploadImages and select Properties.

Step 22 On the Properties dialog box, click Security Tab.

Step 23 Click Edit..., as shown in FIGURE 2-22.



FIGURE 2-22 UploadImages Properties - Security

Step 24 On the Permissions dialog box, click **Add...**, as shown in FIGURE 2-23.

Permissions for UploadImages		×
Security		
Object name: C:\inetpub\www.ro	oot\LarsonDavis\	UploadImages
SCREATOR OWNER		
SYSTEM		
& Administrators (UTP143W\Ad & Users (UTP143W\Users) & IIS_IUSRS (UTP143W\IIS_IU & TrustedInstaller		
Permissions for CREATOR	A <u>d</u> d Allow	<u>R</u> emove Deny
Full control		
Modify		
Read & execute		
List folder contents		
Read		-
Learn about access control and pe	missions	
ОК	Cancel	<u>Apply</u>

FIGURE 2-23 Permissions for UploadImages - Add

Step 25 In the **Enter the object names to select**, type in the name of the user account, or the default name **UploadUser**, if applicable, as shown in FIGURE 2-24.

Step 26 Make sure the **From this location** references your computer.

Step 27 Click Check Names.

Step 28 Click OK on both boxes.

Select this object type:		
Users, Groups, or Built-in security prin	ncipals	Object Types
From this location:		
UTP143W		Locations
Enter the object names to select (exa	amples):	
Enter the object names to select (exa UploadUser	impies):	Check Names
Enter the object names to select (exa UploadUser	imples):	Check Names
	imples):	Check Names

FIGURE 2-24 Select User or Groups - Upload User

Step 29 On the **Security** tab of the Properties box, click the user account name, or the default name **UploadUser**, if applicable, as shown in FIGURE 2-25.

Step 30 Click Advanced.



FIGURE 2-25 UploadImages Properties - Advanced

Step 31 On the Advanced Security Settings box, click the **Permissions** tab.

Step 32 Click the user account name, or the default **UploadUser**, if applicable, as shown in FIGURE 2-26.

Step 33 Click Change Permissions....

o view d	etails of a permission entry, dou	ble-click the entry. To	modify permissions, click	Change Permissions.
oject nai ermissior	me: C:\inetpub\wwwroot\L n ent_ries:	.arsonDavis\UploadIr	nages	
Гуре	Name	Permission	Inherited From	Apply To
Allow	Users (UTP143W\Users)	Read & execute	C:\inetpub\	This folder, subfolders an
Allow	UploadUser (UTP143W\	Read & execute	<not inherited=""></not>	This folder, subfolders an
Allow	TrustedInstaller	Full control	C:\inetpub\	This folder, subfolders an
Allow	SYSTEM	Full control	C:\inetpub\	This folder, subfolders an
Allow	IIS_IUSRS (UTP143W\I	Read & execute	C:\inetpub\wwwro	This folder, subfolders an
Allow	CREATOR OWNER	Special	C:\inetpub\	Subfolders and files only
Allow	Administrators (UTP143	Full control	C:\inetpub\	This folder, subfolders an
	e Permissions	is object's parent		
	permission entries			

FIGURE 2-26 Advanced Security Settings for UploadImages - Change Permissions

Step 34 Click Edit..., as shown in FIGURE 2-27.

ermissions To view o Object na	r edit details for a permission e				
Permission Type	n entries: Name	Permission	Inherited From	Apply To	
Allow Allow Allow Allow Allow Allow	UploadUser (UTP 143W\ IIS_IUSRS (UTP 143W\I TrustedInstaller SYSTEM Administrators (UTP 143 Users (UTP 143W\Users)	Read & execute Read & execute Full control Full control Full control Read & execute	<not inherited=""> C: \inetpub\wwwr C: \inetpub\ C: \inetpub\ C: \inetpub\ C: \inetpub\</not>	This folder, subfolders a This folder, subfolders a	4 m
	e inheritable permissions from t				
	e all child object permissions w	ith inheritable permiss	ions from this object		

FIGURE 2-27 Advanced Security Settings for UploadImages - Edit

Step 35 On the Permission Entry box, select the following Allow rights, as shown in FIGURE 2-28:

- List folder/read data
- Read attributes
- Read extended attributes
- Create files/write data
- Create folders/append data
- Write attributes
- Write extended attributes
- Delete sub-folders and files
- Delete
- Read permissions

Permission	Entry for UploadIm	ages	 X	
Object				
<u>N</u> ame: Up	oloadUser (UTP131W\L	JploadUser)	Change	
Apply to: This folder, subfolders and files -				
Permissions:		Allow	Deny	
	/read data			
Read attr	ibutes ended attributes			
	es / write data	 Image: A start of the start of		
Create fo	lders / append data	v		
Write attr	ibutes ended attributes			
	bfolders and files	v V		
Delete				
Read perr	missions	v		
Apply these permissions to objects and/or Clear All Clear All				
Managing pe	ermissions			
		ОК	Cancel	

FIGURE 2-28 Permissions Entry for UploadImages - Upload User

Step 36 Click OK on all boxes.

Setting up FTP Servers

Setting up an FTP server allows you to upload the NoiseTutor client reports. The FTP server root folder should be specified as the sub-folder "UploadImages" for the web server. To set up the FTP server, follow these steps:

Step 1 From the Start menu, click **Computer**. Browse to **c:\windows\system32\inetsrv\inetmgr.exe**.

Step 2 Double-click inetmgr: ()
Step 3 Under **Connections** on the Internet Information Services (IIS) Screen, click the local computer icon to expand it, as shown in FIGURE 2-29.

Step 4 Click Content View, as shown in FIGURE 2-29.

Step 5 Click **Add FTP Site**..., as shown in FIGURE 2-29.



FIGURE 2-29 IIS Service Manager - Add FTP Site

Step 6 On the Site Information page of the Add FTP Site wizard, type **Upload Images FTP Site** for the FTP site name, as shown in FIGURE 2-30.

Step 7 Under Physical path: type **c:\inetpub\wwwroot\LarsonDavis\UploadImages**, as shown in FIGURE 2-30,or browse to the folder and select it.

Step 8 Click Next.

Add FTP Site			? ×
Site Information			
ETP site name:			
Upload Image FTP Site			
Content Directory			
P <u>h</u> ysical path: C:\inetpub\wwwroot\LarsonDavis\U			
C:\inetpub\wwwroot\LarsonDavis\o	indadimages		
	_		
	Previous	<u>N</u> ext <u>F</u> inish	Cancel

FIGURE 2-30 Add FTP Site - Site Information

Step 9 On the Binding and SSL Settings page, Select All **Unassigned** for IP Address, as shown in FIGURE 2-31.

Step 10 Specify the port for the FTP site, as shown in FIGURE 2-31. The default is 21.

Step 11 Clear the Enable Virtual Host Names: option.

Step 12 Select Start FTP Site Automatically.

Step 13 Select No SSL.

Step 14 Click Next.

d FTP Site		-	-		8
Binding and SSL Settings					
Binding					
IP Address:	Port:				
All Unassigned 👻	21				
Enable Virtual Host Names: <u>V</u> irtual Host (example: ftp.contoso.com):					
No <u>S</u> SL					
Allow SSL					
 <u>R</u>equire SSL SSL <u>C</u>ertificate: 					
Not Selected		•	Vie <u>w</u>		
	Previous	Ne	d	Einish	Cancel

FIGURE 2-31 Add FTP Site - Binding and SSL Settings

Step 15 On the Authentication and Authorization Information page, select **Basic** for Authentication.

Step 16 Select Specified Users for Allow access to:

Step 17 Type in your user account name, or the default **UploadUser**, if applicable, as shown in FIGURE 2-32.

Step 18 Select Read and Write under Permissions.

Step 19 Click Finish.

FTP Site Authentication and Aut	horization Information	8
Authentication		
Anonymous		
☑ <u>B</u> asic		
i A second second second		
Authorization Allow access to:		
Specified users	•	
UploadUser		
Permissions		
Read		
☑ <u>W</u> rite		
		\frown
	Previous Next	<u>F</u> inish Cancel

FIGURE 2-32 Add FTP Site - Authentication and Authorization Information

Step 20 Close IIS.

Configuring Windows Firewalls

Firewalls are used to restrict remote access to your computer. If you have a firewall present, you will need to allow web and FTP access. Below is an example for configuring Windows Firewalls. For other firewalls, refer to the documentation from that provider.

Step 1 From the Start menu, click Control Panel.

If Windows Firewall is not displayed in your Control Panel, click the drop down arrow in the address bar following the words "Control Panel." Click All Control Panel Items. The Windows Firewall icon should appear with other icons in your Control Panel. Step 2 Click Windows Firewall.

Step 3 Click **Advanced Settings**, as shown in FIGURE

2-33.

🚱 🕞 📾 « All Control Panel	Items 🕨 Windows Firewall	- 4 Search Control Panel
Control Panel Home	Help protect your computer with W	Vindows Firewall
Allow a program or feature through Windows Firewall	Windows Firewall can help prevent hackers or computer through the Internet or a network.	malicious software from gaining access to your
😵 Change notification settings	How does a firewall help protect my compute	r?
😯 Turn Windows Firewall on or	What are network locations?	
off Restore defaults	For your security, some settings are many	aged by your system administrator.
Advanced settings Troubleshoot my network	🖉 🥑 Do <u>m</u> ain networks	Not Connected 📎
- 1	📕 🥑 H <u>o</u> me or work (private) net	tworks Connected 📀
3	Networks at home or work where you know a	and trust the people and devices on the network
	Windows Firewall state:	On
	Incoming connections:	Block all connections to programs that are not on the list of allowed programs
	Active home or work (private) networks:	Network 2
	Notification state:	Do not notify me when Windows Firewall blocks a new program
See also Action Center	Ublic networks	Not Connected 📎
Action Center Network and Sharing Center		

FIGURE 2-33 Windows Firewall - Advanced Settings

Step 4 On the Windows Firewall with Advanced Security screen, click **Inbound Rules**, as shown in FIGURE 2-34.

Step 5 Click New Rule..., as shown in FIGURE 2-34.

J

Windows Firewall with Advanced	d Security						X
File Action View Help							
Windows Firewall with Advance	Inbound Rules					Actions	_
🗱 Inbound Rules	Name	Group	Profile	Enabled	Action ^	Inbound Rules	
Connection Security Rules	🖉 BackupExec		Domain	Yes	Allow	🚉 New Rule	
🛛 戅 Monitoring	🔮 BackupExec		Domain	Yes	Allow =	Y Filter by Profile	
	BackupExec Business Objects		Domain Domain	Yes Yes	Allow	▼ Filter by State	
	Business Objects		Domain	Yes	Allow	Filter by Group	
	Ø Dameware		Domain	Yes	Allow	View	
	🕖 DameWare Mini Remote Control Service		Public	Yes	Allow	a Refresh	
	🕑 DamewareProxy		Domain	Yes	Allow		
	EasyMP Network Projection Ver.2.61		Domain	Yes	Allow	🛃 Export List	
	EasyMP Network Projection Ver.2.61		Domain	Yes	Allow	🕜 Help	

FIGURE 2-34 Windows Firewall with Advanced Security - New Rule

Step 6 On the **Rule Type** page of the New Inbound Rule Wizard, select **Predefined:** as shown in FIGURE 2-35.

Step 7 Select **FTP Server**, as shown in FIGURE 2-35.

Step 8 Click Next.

New Inbound Rule Wiza	
Rule Type Select the type of firewall rule to	o create.
Steps:	
Rule Type	What type of rule would you like to create?
 Predefined Rules Action 	 Program Rule that controls connections for a program. Port Rule that controls connections for a TCP or UDP port.
	Predefined: FTP Server Rule that controls connections for a Windows experience.
	© <u>C</u> ustom Custom rule.
	Learn more about rule types
	< Back Cancel

FIGURE 2-35 Windows Firewall - New Inbound Rule Wizard - Predefined (FTP Server)

Step 9 On the **Predefined Rules** page, select FTP Server Passive (FTP Passive Traffic-In), as shown in FIGURE 2-36.

Step 10 Select **FTP Server Secure (FTP SSL Traffic-In)**, as shown in FIGURE 2-36.

Step 11 Select **FTP Server (FTP Traffic-In)**, as shown in FIGURE 2-36.

Step 12 Click Next.

New Inbound Rule Wizard											
Predefined Rules											
Select the rules to be created fo	or this experience.										
Steps:											
Rule Type	Which rules would you like to create?										
Predefined Rules		The following rules define network connectivity requirements for the selected predefined group.									
Action	Rules that are checked will be created. If a rule air the existing rule will be overwritten.	ready exists and is cl	necked, the co	ntents of							
	<u>R</u> ules:										
	Name	Rule Exists	Profile	Desc							
	FTP Server Passive (FTP Passive Traffic-In) FTP Server Secure (FTP SSL Traffic-In)	Already exists Already exists	All	An in An in							
	FTP Server (FTP Traffic-In)	Already exists	All	An in							
	4										
	Learn more about predefined rules										
		C		1							
		< <u>B</u> ack	<u>N</u> ext >	Cancel							
		C									

FIGURE 2-36 Windows Firewall - New Inbound Rule Wizard - FTP Rules

Step 13 On the Action page, select **Allow the connection**, as shown in FIGURE 2-37.

Step 14 Click Finish.



FIGURE 2-37 Windows Firewall - New Inbound Rule Wizard - FTP (Allow the connection)

Step 15 On the Windows Firewall with Advanced Security screen, click **Inbound Rules**, as shown in FIGURE 2-38.

Step 16 Click New Rule..., as shown in FIGURE 2-38.

Windows Firewall with Advanced	Security					
<u>File Action View Help</u>						
🗢 🔿 🙎 🖬 🗟 🖬						
Windows Firewall with Advance	Inbound Rules					Actions
Kan Inbound Rules	Name	Group	Profile	Enabled	Action ^	Inbound Rules
Connection Security Rules	🕑 BackupExec		Domain	Yes	Allow	🛃 New Rule
Monitoring	🔇 BackupExec		Domain	Yes	Allow =	Y Filter by Profile
	🔇 BackupExec		Domain		Allow	
	🕑 Business Objects		Domain	Yes	Allow	-
	🔇 Business Objects		Domain	Yes	Allow	Tilter by Group
	🔇 Dameware		Domain	Yes	Allow	View 🕨
	🔇 DameWare Mini Remote Control Service		Public	Yes	Allow	Q Refresh
	🔇 DamewareProxy		Domain	Yes	Allow	
	EasyMP Network Projection Ver.2.61		Domain	Yes	Allow	📄 Export List
	EasyMP Network Projection Ver.2.61		Domain	Yes	Allow	👔 Help

FIGURE 2-38 Windows Firewall with Advanced Security - New Rule

Step 17 On the **Rule Type** page, select **Predefined**:, as shown in FIGURE 2-39.

Step 18 Select **World Wide Web Services (HTTP)**, as shown in FIGURE 2-39.

Step 19 Click Next.



FIGURE 2-39 Windows Firewall - New Inbound Rule Wizard - Predefined (World Wide Web)

Step 20 On the **Predefined Rules** page, select **World Wide Web Services (HTTP Traffic-In)**, as shown in FIGURE 2-40.

Step 21 Click Next.

New Inbound Rule Wizard				×
Predefined Rules				
Select the rules to be created fo	r this experience.			
Steps:				
Rule Type	Which rules would you like to create?			
Predefined Rules	The following rules define network connectivity requ	uirements for the se	ected predefine	ed group.
Action	Rules that are checked will be created. If a rule alre the existing rule will be overwritten.	eady exists and is cr	iecked, the cor	ntents of
	<u>B</u> ules:			
	Name	Rule Exists	Profile	Desc
	World Wide Web Services (HTTP Traffic-In)	Already exists	All	An in
	< III			Þ.
	Learn more about predefined rules			
	Learning about predenned rules			
		< Back	Next >	Cancel

FIGURE 2-40 Windows Firewall - New Inbound Rule Wizard - Rule (World Wide Web)

Step 22 On the Action page. select Allow the connection, as shown in FIGURE 2-41.

Step 23 Click Finish.



FIGURE 2-41 Windows Firewall - New Inbound Rule Wizard - Allow the Connection

Step 24 Close the Windows Firewall with Advanced Security screen.

Step 25 Close the Windows Firewall.

Verifying Access to FTP Servers

Local Access

Verify your access to the FTP server from your server (local), by following these steps:

Step 1 Make sure the FTP server is running. Click **Start** in IIS if it is not, as shown in FIGURE 2-42.



FIGURE 2-42 IIS Manager - FTP Server Running

Step 2 Verify that the user name and password are valid for the server. If not, use the user name and password supplied by the administrator, or add the user name and password to a user account for the server machine.

Local Network Access

Verify your access to the FTP server from another machine on the same network, by following these steps:

Step 1 Follow the steps for verifying that your server can access the FTP server.

Step 2 Verify that the FTP server's firewall allows FTP traffic, as shown in FIGURE 2-43.

<u>File Action View H</u> elp					
Þ 🤿 🚈 🗔 🗟 🖌 🍋					
Windows Firewall with Advance	Inbound Rules				
Inbound Rules Outbound Rules Connection Security Rules Monitoring	Name	Group	Profile	Enabled	Action ^
	File and Printer Sharing (Spooler Service	File and Printer Sharing	Private	No	Allow
	File and Printer Sharing (Spooler Service	File and Printer Sharing	Private	No	Allow
	🖉 File and Printer Sharing (Spooler Service	File and Printer Sharing	Domain	Yes	Allow
	WetBIOS Datagram Service	File and Printer Sharing	Domain	Yes	Allow
	WetBIOS Name Service	File and Printer Sharing	Domain	Yes	Allow
	WetBIOS Session Service	File and Printer Sharing	Domain	Yes	Allow
	SMB over TCP	File and Printer Sharing	Domain	Yes	Allow
1	FTP Server (FTP Traffic-In)	FTP Server			Allow
	FTP Server Passive (FTP Passive Traffic-In)	FTP Server			Allow
L L	FTP Server Secure (FTP SSL Traffic-In)	FTP Server	All	Yes	Allow
	Homeoroup in	нотеогоир	Private	NO	Allow
	MomeGroup In (PNRP)	HomeGroup	Private	No	Allow
	iscsI Service (TCP-In)	iSCSI Service	Private	No	Allow
	iscsI Service (TCP-In)	iSCSI Service	Domain	No	Allow
	Key Management Service (TCP-In)	Key Management Service	Domain	No	Allow _
	Wey Management Service (TCP-In)	Key Management Service	Private	No	Allow
	Media Center Extenders - HTTP Streamin	Media Center Extenders	All	No	Allow
	Media Center Extenders - Media Streami	Media Center Extenders	All	No	Allow
	Media Center Extenders - qWave (TCP-In)	Media Center Extenders	All	No	Allow
	Media Center Extenders - aWave (UDP-In)	Media Center Extenders	All	No	Allow

FIGURE 2-43 Windows Firewall with Advanced Security - FTP Services Allowed

Step 3 Type your IP address into the address bar of your browser. Verify that the browser loads correctly, as described in the following section.

Public Access

If you have a public FTP firewall on your network, you will need help from your network administrator.

The FTP site address must be publicly accessible to receive data.

Verify your access to the FTP server from another network (public), by following these steps:

Step 1 Follow instructions in Accessing FTP server from another machine on the same network.

Step 2 Verify that the router has port forwarding or port triggering rules for the FTP port, as shown in FIGURE 2-44.

mcast Business Ga	ay					6 0 64	▼ <u>P</u> age	2		
		10			0 222	_			Sig	n Out 🙁
MAIN	Firewall Options		Port Configuration	Web Site Blocking	DMZ		1-to-1 NAT			
Administration	O	6	DevBoxSSH	2015	22 ~ 22	Both	10.1.1	0.88	V	•
LAN	0	7	LinuxWinBox	2016 ~ 2017	2001 ~ 2002	Both	10.1.10	0.180		
Firewall	0	8	Snd831	2018 ~ 2019	2001 ~ 2002	Both	10.1.10	0.138		
Gateway Summary	0	9	JeffTestSSH	2020	2002	Both	10.1.1	0.48		
HELP		10	Snd831SSH	2021	22	Both	10.1.10			
200		11	NoiseTutor	2080	80	Both	10.1.1			
			NoiseTutorServerFT	21	21	Both	10.1.1			
	0	13	TestPoleSSH	2022	22 N 22	Both	10.1.10	.188		
	0	14	LinksysE2000	2023	8080 ~ 8080	Both	10.1.10	0.140		
	0	15	JeffsTestRemote	2024	8080 ~ 8080	Both	10.1.1	0.48		=
	0	16	KenTest	2025	2001 ~ 2001	Both	10.1.1	0.54		
	0	17	KenTestOut	2026	2002 ~ 2002	Both	10.1.1	0.54		
	0	18	KenTestSSH	2027	22 ~ 22	Both	10.1.1	0.54		
	0	19	TestPoleUDP	2028	2010 ~ 2010	Both	10.1.1	0.21		-
								oply		ncel

FIGURE 2-44 Router Port Forwarding - FTP Service

Verifying Browser Connections

To verify your browser is connected and loads correctly, follow these steps.

Step 1 Verify that the website is available on the web server.

Step 2 Open Internet Explorer.

Step 3 In the address bar, type **http://localhost/** LarsonDavis/index.html.

Step 4 If the main web page does not appear, verify that the web service is running. Click Start in IIS if it is not, as shown in FIGURE 2-45.



FIGURE 2-45 IIS Manager - Website Running

Step 5 Verify that the proxy user or supplied user has read access permissions, as shown in FIGURE 2-46. If not, grant read access to the proxy user or supplied user.

1	Larson	Davis Pro	perties	-		×				
	General	Sharing	Security	Previous Versio	ons Customi	ze				
	Object name: C:\inetpub\wwwroot\LarsonDavis									
	<u>G</u> roup o	or user nan	nes:							
	🎎 Us	ers (UTP1	43W\User	s)		*				
	<i>88</i> , 115	UUSRS (UTP143W	\IIS_IUSRS)						
	😹 Tri	ustedInsta	ller			-				
	•					- F				
	To char	nge permis	sions, click	Edit						
		go pointe			<u>E</u> d	rt				
	Permiss	ions for IIS	_IUSRS	A	low De	eny				
	Full o	ontrol				<u> </u>				
	Modi	fy								
	Read	& execute	е		\checkmark	=				
	List fo	older conte	ents		\checkmark					
	Read	ł			\checkmark					
	Write	;				T				
	For special permissions or advanced settings, Ad <u>v</u> anced									
	Learn about access control and permissions									
			0	K Ca	ncel	Apply				

FIGURE 2-46 Larson Davis Properties - Web User Access Rights

Step 6 Verify that the file **index.html** is located in the virtual directory, as shown in FIGURE 2-47. If not, run **ConfigurationTool.exe** again.

Connections	LarsonDav	is Content
UTP143W (PCB\JSpooner)	Filter:	🕶 🙌 Go 🕞 👾 Show Al
⊿ · iii Sites	Name	Туре
D. C. IVWL COM	 Images UploadImages 1046_831_MONTHLYF 1046_831_WEEKLYHIST 831_1046_DAILYHISTC 831_1046_LONGHISTC 831_1046_SHORTHIST INDEX.html ST1_831_1046_Index.html 	TORY.html HTM DRY.html HTM DRY.html HTM ORY.html HTM HTM

FIGURE 2-47 IIS Manager - Index.html Present

Step 7 To ensure access to your web site from another computer, verify that the server's firewall allows traffic through the web site port (Default 80), as shown in FIGURE 2-48. Change the firewall if needed.

Windows Media Player Network Sharing		Private	No	Allow	N	litel CCM
Windows Media Player Network Sharing	Windows Media Player Net	Domain	No	Allow	IVI	and the second
Windows Media Player Network Sharing	Windows Media Player Net	All	No	Allow		Copy
Windows Media Player Network Sharing	Windows Media Player Net	Private	No	Allow		Properti
Windows Media Player Network Sharing	Windows Media Player Net	Domain	No	Allow	2	l nas
Windows Media Player Network Sharing	Windows Media Player Net	Domain	No	Allow		Help
Windows Media Player Network Sharing	Windows Media Player Net	Private	No	Allow		
Windows Media Player Network Sharing	Windows Media Player Net	Private	No	Allow		
Windows Media Player Network Sharing	Windows Media Player Net	Domain	No	Allow		
Windows Media Player Network Sharing	Windows Media Player Net	All	No	Allow		
Windows Media Player Network Sharing	Windows Media Player Net	Domai	No	Allow		
Windows Peer to Peer Collaboration Fou	Windows Peer to Peer Colla	All	No	Allow		
Windows Peer to Peer Collaboration Fou	Windows Peer to Peer Colla	All	No	Allow		
Windows Peer to Peer Collaboration Fou	Windows Peer to Peer Colla	All	No	Allow		
Windows Peer to Peer Collaboration Fou	Windows Peer to Peer Colla	All	No	Allow		
Windows Remote Management - Compa	Windows Remote Manage	Domain	No	Allow		
Windows Remote Management - Compa	Windows Remote Manage	Private	No	Allow		
Windows Remote Management (HTTP-In)	Windows Remote Manage	Private	No	Allow		
Windows Remote Management (HTTP-In)	Windows Remote Manage	Domain	No	Allow	-	
Wireless Portable Devices (SSDP-In)	Wireless Portable Devices	All	No	Allow	=	
Wireless Portable Devices (IIDnD-In)	Wireless Portable Devices	All	No	Allow		
World Wide Web Services (HTTP Traffic-I	World Wide Web Services (All	Yes	Allow	-	
					-	

FIGURE 2-48 Windows Firewall With Advanced Security - World Wide Web

If your web server does not have a public IP address, you will need to configure your routers for access. Consult with your organization's IT professional for help. **Step 8** To ensure access to your website from the Internet (and not just your local network), verify that the router has port forwarding or port triggering rules for your web site.

CHAPTER

3

Installation and Set-up

The Noise Tutor System reports and transmits sound level data directly to web-servers or e-mail inboxes. This provides increased accessibility and versatility to Larson Davis sound level meters. To set up the system, complete the following steps:

- 1. Install the NoiseTutor software.
- 2. Start the NoiseTutor System.
- 3. Install the NoiseTutor System license.
- 4. Set up data transmission.

The procedures for installation and set up are described in the following sections.

Installing NoiseTutor Software

Important: The NoiseTutor software comes pre-installed when NoiseTutor is purchased as a system. If you purchased a system, skip to the following section, "Starting the NoiseTutor System." If your NoiseTutor station was not purchased as part of a system, or if for some other reason you need to install the NoiseTutor software, insert the CD into your station computer (not the server computer) and follow the instructions on the installation wizard.

During the setup process, a link to the NoiseTutor System is created in the Startup folder of Windows. As a result, the NoiseTutor software runs every time Windows is started. It also enables the NoiseTutor System to automatically restart Windows without user intervention.

The link to the Windows Startup folder starts the NoiseTutor System as a program, but it does not automatically start monitoring operations. If Windows is restarted while the NoiseTutor System is opened and running (see Main Commands), the program stores the previous state, and upon restart it reactivates the monitoring operations.

If you want the monitoring operations to start automatically each time Windows starts up, follow these steps: **Step 1** Browse to the NoiseTutor link in the Windows Startup folder.

Step 2 Right-click the NoiseTutor icon and click Properties, as shown in FIGURE 3-1.



FIGURE 3-1 NoiseTutor Application Properties Access

Step 3 In the **Target** field, replace **C:\Program Files\NoiseTutor\NoiseTutor.exe** with **C:\ProgramFiles\ NoiseTuto\NoiseTutor.exe -R**, as shown in FIGURE 3-2.

NoiseTutor Properties			
General Shortcu	t Compatibility Security		
NoiseTutor			
Target type:	Application		
Target location:	NoiseTutor		
Target:	ogram Files (x86)\NoiseTutor\NoiseTutor.exe'' -R		
Start in:	"C:\Program Files (x86)\NoiseTutor"		
Shortcut key:	None		
Run:	Normal window		
Comment:			
Find Target Change Icon Advanced			
	OK Cancel Apply		

FIGURE 3-2 NoiseTutor Properties Window

Starting the NoiseTutor Station

Refer to the NoiseTutor Quick Start Guide and the NoiseTutor Installation Reference on the inside of the NoiseTutor System case to set up your hardware.

Note: Slide the keyboard switch to **OFF** when not in use.

With the necessary hardware installed, follow these steps to start the NoiseTutor System:

Step 1 Press the black power switch to start the system.

Step 2 Press the monitor power button to activate the display.

Step 3 Remove the keyboard and slide the keyboard switch to **ON**.

Step 4 When prompted, enter your specified password to access Windows, or enter the default password, **12345**, as the hint **1-5** suggests. The NoiseTutor application automatically starts along with the Sierra Wireless Watcher network connection utility.

Step 5 Click **Connect** in the network utility to connect to a cell network.

Step 6 When the Sierra Wireless utility has connected to the cell network, minimize the utility.

The NoiseTutor station requires an activation license in

order to be used. The license is based on the model and

Installing NoiseTutor System Licenses

Your license may be pre-installed if you receive a new analyzer as part of your NoiseTutor station.

serial number of the analyzer. Please contact PCB Technical Support to obtain license files. To install the license file, copy the license file to the NoiseTutor folder. The location of the NoiseTutor folder depends on the version of Windows you are using. To install the license file, follow these steps:

If you received the license file as a zipped file, remember to unzip it first. Otherwise, NoiseTutor will not recognize it as a license file. **Step 1** Copy the license file you receive from PCB to your clipboard.

Step 2 Launch the NoiseTutor Software.

Step 3 From the **View** menu, click **NoiseTutor Folder**, as shown in FIGURE 3-3.



FIGURE 3-3 NoiseTutor Folder Access

Step 4 Paste the license file into NoiseTutor folder, as shown in FIGURE 3-4.

e Edit View Favorites	Tools Help Search 🌮 Folders				
tress 🛅 C:\Program Files (x8	36)\NoiseTutor				
	Name 🔺	Size	Туре	Date Modified	
File and Folder Tasks	Archive		File Folder	8/25/2011 11:45 AM	
🔭 Make a new folder	Lxt-831 USB Drivers		File Folder	8/2/2011 10:39 AM	
	🚞 Manuals		File Folder	8/2/2011 10:39 AM	
Publish this folder to the Web	C SETUP		File Folder	8/2/2011 10:39 AM	
Share this folder	🔊 charmap.dll	15 KB	Application Extension	3/30/2010 4:59 PM	
Share this folder	No LV_DOG.exe	351 KB	Application	12/4/2010 12:26 AM	
	🗐 LVDog.log	22 KB	Text Document	10/28/2011 2:55 PM	
Other Places	😞 🛃 NoiseTutor	1 KB	Internet Shortcut	8/2/2011 10:39 AM	
	📉 🚹 NoiseTutor.exe	1,409 KB	Application	7/2/2011 12:02 PM	
🚞 Program Files (x86)	NoiseTutor.log	5 KB	Text Document	10/28/2011 2:54 PM	
My Documents	NoiseTutor_ITA.dll	248 KB	Application Extension	7/2/2011 12:01 PM	
😡 My Computer	NoiseTutor_LD831.dll	330 KB	Application Extension	7/2/2011 12:02 PM	
Wy Network Places	🔤 NoiseTutorSetup.xml	8 KB	XML Document	10/13/2011 6:17 PM	
S My necesorier naces	🔤 NT_831_L×T_2523.lic	1 KB	LIC File	5/26/2011 3:33 PM	
	SimTranslator.dli	219 KB	Application Extension	7/23/2010 4:51 PM	
Details	🕤 🖬 unins000.dat	13 KB	DAT File	8/2/2011 10:39 AM	
betuns	inins000.exe	781 KB	Application	8/2/2011 10:39 AM	

FIGURE 3-4 NoiseTutor Folder

Setting up Data Transmission

You can set-up the remote delivery of collected sound level data via the following methods:

All of these methods can be used simultaneously, if desired.

- Deliver data files via e-mail.
- Deliver data files to an FTP site.
- Create and deliver graphical reports via e-mail.
- Create and publish graphical reports to a web site.

Deliver Data Files via E-mail

To send sound level data to an e-mail address, follow these steps:

Step 1 Specify the Working Mode. On the Setup menu, click Working mode and then click either Data File or Data File + Realtime Reports. The Data File option configures NoiseTutor to e-mail only data files; the Data File + Realtime Reports option configures NoiseTutor to deliver both data files and graphical reports via e-mail.

Step 2 On the Setup menu, click Main Setup.

Step 3 Select the **zip files before sending to mail or ftp** option to send compressed files. Zipping files is recommended.

Step 4 In the **SMTP** section, enter the SMTP mail server address and the e-mail address to be used to send data files, as shown in FIGURE 3-5.

Step 5 Specify the SMTP port for the SMTP mail server.

Step 6 Select the Use e-mail authentication option, if appropriate.

Step 7 Type your login name and password if server authentication is selected.

Step 8 In the **Information request address** field, type the e-mail address of the designated personnel to handle data inquiries, as shown in FIGURE 3-5.

Noise Tutor - Main Setup	×			
Store folder: C:\Program Files (x86)\NoiseTutor\Archive				
Zip files before sending to mail or ftp				
Check instrument time every: Never Updating the instrument clock require a stop and a restart of the measurement				
Data File Download				
Check for new files every	1 hour			
Power saving: (only if waiting for more than 5 minutes)				
Restart Windows every:	1 day 💌			
$\ensuremath{{\mbox{\scriptsize F}}}$ Keep the PC on for remote maintenance connection				
Period 1 starting from: 00:00:00	🛨 Duration; 10 min 💌			
Period 2 starting from: 00:00:00	Duration: 10 min 💌			
SMTP	: smtp.larson			
	NoiseTutor@pcb.com			
Login name: arsondavis				
Information request address	LarsonDavis@pcb.com			
ок	Cancel			

Step 9 Click OK.

FIGURE 3-5 Main Setup

Add E-mail Recipient Lists

To add a recipient list, follow these steps:

Step 1 On the Setup menu, click Recipient Lists.

Step 2 In the **List name** field on the **Recipient Lists** box, type the name of the recipient list, as shown in FIGURE 3-6.

Step 3 In the **Recipient list** field, type the e-mail addresses of the recipients for your list, as shown in FIGURE 3-6.

Step 4 Click the New List button to create additional recipient lists, as shown in FIGURE 3-6.

Step 5 In the **Recipient Lists** field, select the name of the list and click **Add...**.

Step 6 In the **Address** field of the **E-mail address** box, type the e-mail address of an e-mail data file recipient, as shown in FIGURE 3-6.

Step 7 Click OK to add the recipient.

Step 8 Repeat the previous steps for additional recipient e-mail addresses.

Noise Tutor - Recipient Lists	
Recipient Lists 🗟 List #1	Current List List name: List #1
	Recipient list:
	recipient1@larsondavis.com slmpro1234@slm.com spectrainfo@spectrait.com
	Add Edit Remove Copy from
New list Remove list	OK Cancel
E-mail address	. 🗵
	Address: spectrainfo@spectrait.com
_	OK Cancel

FIGURE 3-6 Recipient List Set-up

To specify e-mail settings for data files, follow these steps:

Step 1 On the Setup menu, click Data File, and then click E-mail 1..., as shown in FIGURE 3-7.

Step 2 Select **Enable E-mail data file ...**, as shown in FIGURE 3-7.

Step 3 In the **Recipients list** box, select the recipient list to which the sound level data will be sent, as shown in FIGURE 3-7.

Step 4 In the **Subject** box, type the subject.

Step 5 In the **Message text** box, type the e-mail message.

Step 6 In the Attachments section, select the desired graphic report attachment options to include in the e-mail, as shown in FIGURE 3-7.

Step 7 Specify the height and width dimensions for the graphs in the attachments, as shown in FIGURE 3-7.

Step 8 Select the **Include the PC power status information** option, if desired.

Step 9 Click OK.

Noise Tutor - E-mail Data File 1 Se	ervice Setup	×	
🔽 Enable E-mail data file 1 service			
Recipients list: List #1		•	
Subject:			
Message text:			
1			
Attachements	Width	Height	
▼ Time History 1	640	280	
Sonogram	640	280	
Simdi Data File	,	<i>,</i>	
) Sindi Data nie			
\square Include the PC power status inform	ations		
ок	Cancel	1	
UK	Cancel]	

FIGURE 3-7 E-mail Settings for Data Files

Step 10 Verify that **Internet Upload** on the **Commands** menu is checked.

Step 11 Configure other NoiseTutor data transmission options and begin taking sound level data by clicking **Start** on the **Commands** menu.

Deliver Data Files to an FTP Site

To deliver sound level data to an FTP site, follow these steps.

If you have a public FTP firewall on your network, you will need help from your network administrator. Step 1 Specify the Working mode. On the Setup menu, click Working mode and then click either Data File or Data File + Realtime Reports. The Data File option configures NoiseTutor to deliver only data files to FTP sites; the **Data File + Realtime Reports** option allows both FTP data file delivery and real-time report e-mail and web publishing features.

Step 2 On the **Setup** menu, click **Data File** and then click **FTP 1...**.

Step 3 On the **FTP1 Service Setup** box, select the **Enable the FTP1** service option, as shown in FIGURE 3-8.

Noise Tutor - FTP1 Service Setup
✓ Enable the FTP1 service
FTP address:
User name:
Password:
Folder name:
OK Cancel

FIGURE 3-8 FTP Transfer Set-up

Step 4 Specify an FTP site address by typing your user IP address or the local host IP address.

Step 5 Type the default FTP site User name **UploadUser**.

Step 6 Type an FTP site password.

Step 7 If you have specified the default values in configuring your server, as shown in this manual, type a forward slash (/) for Folder name. This specifies your virtual directory. Otherwise, type the path to the location you have specified in configuring your server.

Step 8 Click OK.

Step 9 Verify that **Internet Upload** on the **Commands** menu is checked.

Step 10 Configure other NoiseTutor data transmission options and begin taking sound level data by clicking **Start** on the **Commands** menu.

The FTP site address must be publicly accessible to receive data.

Larson Davis strongly recommends that you specify, select, or accept all defaults for your configuration, as demonstrated in this manual.

Create and Deliver Graphical Reports via E-mail

To deliver graphical reports of sound level data via e-mail, follow these steps:

Step 1 On the Setup menu, click Main Setup. Select
Realtime Report to deliver only graphical reports to a list of e-mail recipients. Select Data File + Realtime
Report to deliver both data files and graphical reports.

Step 2 Select the **zip files before sending to mail or ftp** option to send compressed files. Zipping files is recommended.

Step 3 In the **SMTP** section, enter the SMTP mail server address and the e-mail address to be used to send data files, as shown in FIGURE 3-9.

Step 4 Specify the SMTP port for the SMTP mail server.

Step 5 Select the Use e-mail authentication option, if appropriate.

Step 6 Type your login name and password if server authentication is selected, as shown in FIGURE 3-9.

Step 7 In the **Information request address** field, type the e-mail address of the designated personnel to handle data inquiries, as shown in FIGURE 3-9.

Step 8 Click OK.

Noise Tutor - Main Setup				
Store folder: C:\Program Files (x86)\NoiseTutor\Archive				
✓ Zip files before sending to mail or ftp				
Check instrument time every: Never Updating the instrument clock require a stop and a restart of the				
Update when difference is greater than: 10 s require a scop and a rescart of the measurement				
Data File Download				
Check for new files every: 1 hour 🗾 🔽 Synchronize				
Power saving: None (only if waiting for more than 5 minutes)				
Restart Windows every:				
Keep the PC on for remote maintenance connection				
Period 1 starting from: 00:00:00 🗧 Duration: 10 min 💌				
Period 2 starting from: 00:00:00 💼 Duration: 10 min 💌				
_SMTP				
SMTP mail server: smtp.larson vis.com				
Send address: NoiseTutor@pcb.com				
✓ Use E-mail authentication SMTP Port: 25				
Login name: larsondavis				
Login password: *****				
Information request address: LarsonDavis@pcb.com				
OK				

FIGURE 3-9 Main Setup

Step 9 Add a recipient list, as described in the previous section.

Step 10 On the Setup menu, click **Realtime Report** and then click **E-mail 1...**.

Step 11 Select Enable E-mail report 1 service.

Step 12 In the **Recipients list** box, select the recipient list to which the sound level data will be sent, as shown in FIGURE 3-10.

Noise Tutor - Recipient Lists	
Recipient Lists 🗟 List #1	Current List
	Recipient list: recipient 1@larsondavis.com sImpro1234@sIm.com spectrainfo@spectrait.com
New list Remove list	Add Edit Remove Copy from
E-mail address	· · · · · · · · · · · · · · · · · · ·
	Address: spectrainfo@spectrait.com
	OK Cancel

FIGURE 3-10 Recipient List Set-up

Step 13 In the Subject box, type the subject.

Step 14 In the Message text box, type the e-mail message.

Step 15 In the **Attachments** section, select the desired graphic report attachment options to include in the e-mail.

Step 16 Specify the height and width dimensions for the graphs in the attachment.

Step 17 Select the **Include the PC power status information** option, if desired.

Step 18 Click OK.

Step 19 Verify that **Internet Upload** on the **Commands** menu is checked.

Step 20 Configure other NoiseTutor data transmission options and begin taking sound level data by clicking **Start** on the **Commands** menu.

Create and Publish Graphical Reports to Web Site

Note: The NoiseTutor station View menu enables the display of log files, where operations are recorded. It also enables the log of Internet connection statistics, or the logs of debug messages. Such log files can be helpful in debugging wireless modem dial-up connections.

Larson Davis strongly recommends that you specify, select, or accept all defaults for your configuration, as demonstrated in this manual. To create and publish reports of sound level data to a website, follow these steps:

Step 1 Create a web site that will accept graphical reports. This can be done using the NoiseTutor Server Configuration Tool located on the NoiseTutor CD.

Step 2 On the **Setup** menu, click **Working Mode**. Select **Realtime Report** to deliver only graphical reports to a web site. Select **Data File + Realtime Report** to deliver both data files and graphical reports.

Step 3 On the Setup menu, click Realtime Report and then click Web

Step 4 On the Web Report Service Setup box, select **Enable the web report service**, as shown in FIGURE 3-11.

Step 5 Specify a FTP site address by typing your user IP address or the local host IP address.

Step 6 Type the default FTP site User name **UploadUser**.

Step 7 Type your FTP site password.

Step 8 If you have specified the default values in configuring your server, as shown in this manual, type a forward slash (/) for Folder name. This specifies your virtual directory. Otherwise, type the path to the location you have specified in configuring your server.

Step 9 Click New....

Step 10 On the **Web Graph** box, select the reports to be published to the website: Either **Time History** or **Sonogram** or both, as shown in FIGURE 3-11.
Step 11 In the **History** box, select the template of the Time History report, as shown in FIGURE 3-11. Templates can be configured using the Report Set-up menu.

Step 12 In the **Time Length** box, select the length of the time axis in the graphical reports, as shown in FIGURE 3-11.

Step 13 In the **Update Every** box, select the update interval, as shown in FIGURE 3-11.

Step 14 Click OK.

Step 15 Verify that **Internet Upload** on the **Commands** menu is checked.

Step 16 Configure other NoiseTutor data transmission options and begin taking sound level data by clicking **Start** on the **Commands** menu.

WARNING!:Do not change the specification in the Filename box. Leave the box exactly as shown in FIGURE 3-11. If you modify this setting, your system will not function correctly.

Noise Tutor - W	eb Report Service S	etup		×
🔽 Enable the We	b report service			
	FTP address:			
User name: UploadUser				
	Password:	****		
	Folder name:	1		
Туре	Duration Upda	te Width Heigh	nt Filename	
New	Edit	Remove	Import	Export
			· ·	
Advanced se	ettings	🔓 ок	Can	cel
		🔓 ок	Can	
	Graph	<u>Б</u> ок	Can	
Web		<u>к</u> ок	History: 1 (LAeq,1s)	
Web	Graph	<u>С</u> е ок		
Web	Graph Time History Sonogram	<u>с</u> ок Time length: <mark>5 min</mark>		
Web	Graph Time History Sonogram			
Web F	Graph Time History Sonogram Up Width (pixels	Time length: 5 min date every: 10 sec		
Web C Adu	Graph Time History Sonogram Up Width (pixels ditional data displayed	Time length: 5 min date every: 10 sec); 640	History: 1 (LAeq,1s)	
Web R Adi	Graph Time History Sonogram Up Width (pixels	Time length: 5 min date every: 10 sec); 640	History: 1 (LAeq,1s)	
Web R Adi	Graph Time History Sonogram Up Width (pixels Hourly levels Ldn	Time length: 5 min date every: 10 sec): 640 Day/E	History: 1 (LAeq,1s) History: 1 (LAeq,1s) Height (pixels): 48 Evening/Night levels	
Web	Graph Time History Sonogram Up Width (pixels ditional data displayed Hourly levels Ldn Filename:	Time length: 5 min date every: 10 sec): 640 Day/E Lden %5N%_%MODEL%_F ame on the ftp server	History: 1 (LAeq,1s) History: 1 (LAeq,1s) Height (pixels): 48 Evening/Night levels T_5M (including any required f	O O O
Web C Adu File n The	Graph Time History Sonogram Up Width (pixels ditional data displayed Hourly levels Ldn Filename: ame is the destination na filename can contain the	Time length: 5 min idate every: 10 sec): 640 Day/E Lden %SN%_%MODEL%_F ame on the ftp server following wildcards the	History: 1 (LAeq,1s)	O O O
Web	Graph Time History Sonogram Width (pixels ditional data displayed Hourly levels Ldn Filename: Filename: Source and the levels Ldn Source and the levels Source and the lev	Time length: 5 min date every: 10 sec): 640 Day/E Lden %5N%_%MODEL%_F ame on the ftp server	History: 1 (LAeq,1s) History: 1 (LAeq,1s) Height (pixels): 48 Evening/Night levels RT_5M (including any required f at will be replaced at run serial number	O O O
Web	Graph Time History Sonogram Width (pixels ditional data displayed Hourly levels Ldn Filename: Filename: Source and the levels Ldn Source and the levels Source and the lev	Time length: 5 min date every: 10 sec): 640 Day/E Lden %SN%_%MODEL%_F ame on the ftp server following wildcards the ed by the instrument	History: 1 (LAeq,1s) History: 1 (LAeq,1s) Height (pixels): 48 Evening/Night levels RT_5M (including any required f at will be replaced at run serial number	O O O
Web	Graph Time History Sonogram Width (pixels ditional data displayed Hourly levels Ldn Filename: Filename: Source and the levels Ldn Source and the levels Source and the lev	Time length: 5 min date every: 10 sec): 640 Day/E Lden %SN%_%MODEL%_F ame on the ftp server following wildcards the ed by the instrument	History: 1 (LAeq,1s) History: 1 (LAeq,1s) Height (pixels): 48 Evening/Night levels RT_5M (including any required f at will be replaced at run serial number	O O O

FIGURE 3-11 Web Service Report Set-up

CHAPTER

4

NoiseTutor Station Setup Menu

This chapter provides information for the commands in the **Setup** menu of the NoiseTutor station, all of which affect data reporting for your system.

The Setup commands described in this chapter apply to the NoiseTutor station, not the server. Figure 4-1 shows the **Setup** menu commands for the NoiseTutor station.



FIGURE 4-1 Setup Menu Commands

Table 4-1 lists the commands in the **Setup** menu and describes their basic functions.

Command	Usage
Working Mode	Specifies Data File or Realtime Reporting
Main Setup	Changes main application settings or SMTP server settings
Recipient Lists	Defines the recipient lists used in the E-mail service
Graph Setup	Changes the settings of graphs used in E-mail messages for web publishing
Data File (E-mail)	Changes the settings of graphs used in E-mail messages and for web publishing
Data File (FTP)	Changes the settings for the FTP upload service used in "Data File" working mode
Realtime Report (E-Mail)	Changes the settings for the e-mail services used in the "Real- time Report" working mode
Realtime Report (Web)	Changes the settings of the web publishing services
Administration	Changes the settings for e-mail messages sent to system administrators

 Table 4-1 Setup Commands and Functions

Working Mode

The **Working Mode** command provides two options for operating the NoiseTutor station: the **Data File** mode and the **Realtime Report** mode.

The **Data File** working mode downloads the data file from the connected analyzer and sends it by e-mail to a recipient list or uploads it to an FTP site. This is the principal mode. It is usually active as it handles the data measured by the analyzer. It enables the user to automatically receive data through e-mail or through an FTP server. The NoiseTutor station keeps a copy of sent data on the local PC, thereby making a backup copy of the data.

The **Realtime Report** working mode keeps a continuous connection with the instrument, continuously reading the current level measured by the analyzer. It produces a graphical report that can be sent to a recipient list via e-mail or that can be used for web publishing.

It is possible to use both modes simultaneously. In this case, the **Realtime Report** mode is suspended during the data download from the instrument, after which it is then automatically restarted.

The **Main settings** command can be divided in two logical groups: settings related to the application itself, and settings for the SMTP server. The Main Setup box is shown in FIGURE 4-2. Table 4-2 and Table 4-3 define both the application settings and the SMTP server settings.

Noise Tutor - Main Setup 🛛 🗙			
Store folder: C:\Program Files (x86)\NoiseTutor\Archive			
✓ Zip files before sending to mail or ftp			
Check instrument time every: Never			
Update when difference is greater than: 10 s require a stop and a restart of the measurement			
Data File Download			
Check for new files every: 1 hour 🔽 🔽 Synchronize			
Power saving: None (only if waiting for more than 5 minutes)			
Restart Windows every: 1 day			
Keep the PC on for remote maintenance connection			
Period 1 starting from: 00:00:00 🛨 Duration: 10 min 💌			
Period 2 starting from: 00:00:00 🛨 Duration: 10 min 💌			
SMTP			
SMTP mail server: smtp.larsonugvis.com			
Send address: NoiseTutor@pcb.com			
✓ Use E-mail authentication SMTP Port: 25			
Login name: larsondavis			
Login password: ******			
Information request address: LarsonDavis@pcb.com			
OK Cancel			

FIGURE 4-2 Main Setup

Setting	Description
Store Folder	The folder on the local hard-disk where the downloaded files are saved
Zip files before	Select this check box to zip the data files before attaching to an e-mail, or uploading to an FTP site.
Check Instrument time	All supported instruments have an internal clock. Use this field to keep the internal clock synchronized with the PC clock. Checking the clock does not require a stop in measurement. To change the internal clock, the measurement must be stopped and then restarted again after the clock change.
Update when difference is greater than	The value in seconds used to check the internal clock. When the difference between internal clock and PC clock is greater than this value, the internal clock is updated.
Data File Download	Sets the time between two download operations. If the syn- chronize check box is selected, the download time is synchro- nized at the specified hour, starting from midnight.
Send the PC to "Standby" when waiting for more than 5 minutes	Enables the PC to enter standby between downloads. This field is disabled if the working mode "Realtime Report" is enabled.
Restart Windows every	Windows can become unstable if the system operates for long periods of time. With this option, you can reboot the operating system automatically after a specified number of days.
Keep the PC on for remote maintenance	This group of parameters enables defining two time periods during the day that the PC must remain turned on, indepen- dently of the download time. In this manner, it is possible to remotely connect to the system (using one of the several avail- able) to perform administrative tasks. If you are using a dial- up connection with a wireless modem you may need to set the dial-up software to automatically connect when Windows is started.

Table 4-2 Main Setup Application Setting

Setting	Description	
SMTP mail server	The name of the SMTP mail server. Normally this address is provided by the Internet service provider.	
Use E-mail authentication	Select this option if the mail server requires authentication. If selected, you must also enter the Login name and the Login password.	
Login name	Login name for authentication	
Login password	Password required for the authentication	
SMTP port	Port number to access the SMTP server. Normally it is 25. Do not change this value unless required by the Internet provider.	
Information request	Your name and personal e-mail address. This information is appended to the end of e-mail messages to simplify informa- tion requests.	

Table 4-3 Main Setup SMTP Server Settings

Recipient Lists

The **Recipient Lists** command allows you to define the recipient lists for the outgoing e-mails, as shown in FIGURE 4-3. It is possible to define an unlimited number of lists. To enable the use of e-mail services, at least one recipient list must be defined. Click the **New list** button to create a new recipient list. Click the **Remove list** button to delete selected lists. Table 4-4 defines the Recipient List Window Settings.

Noise Tutor - Recipient Lists				×
Recipient Lists Just me Gov. office	Current List		: Just me	
	Add	Edit	Remove	Copy from
New list Remove list		ок	Cancel	

FIGURE 4-3 Recipient List

Setting	Description
List name	The name of the list used throughout the program. Two lists cannot have the same name.
Recipient list	E-mail addresses specified in the current recipient list
Add	Adds a new e-mail address
Edit	Edits the selected e-mail address
Remove	Deletes the selected e-mail address
Copy from	Copies all addresses from another recipient list

Table 4-4 Recipient List Editing Controls

The **Graph Setup** command launches the Report Setup box, where you can customize graphs for reports, e-mail attachments, or the web, as shown in FIGURE 4-4.

You can define up to four time history graphs. For graphs, specify the following:

- Background color
- Axis color
- Grid color
- Header color
- Font color
- Value trace color

The settings for Amplitude Start and Stop are common for all four time histories. Aside from color scale settings, most settings are the same as those for time history.

For sonograms, the color scale settings are marked by a series of key points, where a particular sound level is associated with a specific color. Colors between two key points are calculated by interpolation. Initially, only two key points are defined, but you may add other key points as you like. The key points are represented by markers at the bottom of the color scale. Table 4-5 describes how to edit the key points.



FIGURE 4-4 Graph Setup

Action Description	
Add a key point Click a place on the key points bar.	
Remove a key point	Select the key point and drag it outside the bar, or select a key point and click on the Remove current color button.
Change the level of a key point	Select the key point and drag it with the mouse.
Change the color of a key point	Select the key point and click on the Current color button.

Table 4-5 Editing Keypoint Instructions

A color scale can be saved or loaded from a disk using the **Load scale** and **Save scale** buttons.

Data File

The **Data File** command launches setup boxes for delivering reports via e-mail or FTP in the Data File working mode. FIGURE 4-5 shows the **Data File** command options.



FIGURE 4-5 Data File Setup

E-mail Service

The **E-mail 1...** and the **E-mail 2...** options launch the E-mail Report Service Setup box. Only these two e-mail services are provided. The settings are shown in FIGURE 4-6. Table 4-6 describes the settings for this box.

Noise Tutor - E-mail Report 1	Service Setup	×
🔽 Enable E-mail report 1 service		
Recipients list: Nev	w list	•
Subject: Enter subje	ct	
Message text::		
Enter message text		
Send report e	every: 4 hours 💌	
-Graphic report to attach		
	Width	Height
Time History 1	640	280
Time History 2	640	280
Time History 3	640	280
Sonogram	640	280
ОК	Cancel	

FIGURE 4-6 "Data File" E-mail setup

Setting	Description
Enable E-mail service	Enables/Disables e-mail service
Recipients List	The recipient list for the e-mail service
Subject	The subject of the message
Message text	The text of the message. Type messages in such a way that they are not filtered by anti-spam software.
Time History 1	Attaches a time history graph. On the right, specify the JPEG size in pixels.
Data File	If selected, the file downloaded from the analyzer is attached to the message.
Include power status	Includes information about the power supply status of the PC and of the analyzer in the message text.

Table 4-6 E-mail File Settings

FTP Setup Service

The **FTP1...** and **FTP2...** options launch the FTP Service Setup box to setup the FTP upload service, as shown in FIGURE 4-7. Table 4-7 and Table 4-8 show the settings for FTP Service Setup.

Noise Tutor - FTP1 Service Setup	×
Enable the FTP1 service	
FTP address: ftp.microsoft.com	
User name: bill.gates	
Password: *****	
Folder name:	
OK	

FIGURE 4-7 "Data File" FTP Setup Window

Setting	Description	
Enable the FTP service	Enables/Disables the FTP service	
FTP Address	The FTP server where the data files are uploaded. It is possible to enter the address either in canonical form (ftp.domain.x) or in numeric form $(x.x.x.x)$.	
Username	This is the user name to establish the FTP connection.	
Password	This is the password to establish the FTP connection.	
Folder name	The name of the sub-folder where the data file is copied. If left empty, the files are copied to the root of the FTP site.	

Table 4-7 FTP Service Settings

Realtime Report Setup

The **Realtime Report** command launches setup boxes for publishing real time reports in e-mail or on the web in the Realtime Report working mode. FIGURE 4-8 shows the **Realtime Report** command options.

t U	T Untitled - NoiseTutor					
File	Setup	Command:	s V	iew Help		
	Wor	king Mode	►			
		i Setup				
	Recipient Lists Graph Setup					
		nocap				
	Data File 🛛 🕨					
	Rea	time Report	\mathbf{N}	✔ E-mail 1		
	Administration 将		E-mail 2			
			E-mail 3			
			Web			

FIGURE 4-8 Realtime Report Setup

The **E-mail 1...**, **E-mail 2...**, and **E-mail 3...** options launch the E-mail Report Service Setup box. Three e-mail services are provided, corresponding to the numbers in the command menu. The settings are shown in FIGURE 4-9. Table 4-6 describes the settings for this box. Table 4-8 describes the settings for E-mail Report Service Setup.

Noise Tutor - E-mail Report 1 Se	Noise Tutor - E-mail Report 1 Service Setup			
Enable E-mail report 1 service				
Recipients list: New I	ist	•		
Subject: Enter subject	Subject: Enter subject			
Message text::				
Enter message text Send report every: 4 hours				
Graphic report to attach				
	Width	Height		
Time History 1	640	280		
Time History 2	640	280		
Time History 3	640	280		
Sonogram	640	280		
ОК	Cancel			

FIGURE 4-9 Realtime Report E-mail Setup Window

Setting	Description
Enable E-mail Service	Enables/Disables the e-mail service
Recipients list	The recipients list for the e-mail service
Subject	The subject of the message
Message text	The text of the message. Type messages in such a way that they are not filtered by anti-spam software.
Send report every	Determines when the report message is sent
Time History 1	Attaches a time history graph. On the right, specify the JPEG size in pixels.
Time History 2	Attaches a time history graph. On the right, specify the JPEG size in pixels.
Time History 3	Attaches a time history graph. On the right, specify the JPEG size in pixels.
Sonogram	Attaches a sonogram graph. On the right, specify the JPEG size in pixels.

 Table 4-8 Realtime Report Settings

Web Publishing

By configuring your server with values default with the Configuration Tool, as described in chapter Setting Up the the NoiseTutor Server, your graphs will be linked to web pages and be displayed within the pages. If you do not configure your server and station default values, your IT with professional will need to provide custom configuration to display your graphs on web pages.

The **Web...** option launches the Web Report Service Setup box, as shown in FIGURE 4-10. The Web Report Service creates a JPEG format image—with a graph based on realtime data—and uploads it to the FTP site associated with the web site. The graph is then published on the web site.

	loise Tutor - Web R	eport Ser	vice Set	up				×
	Enable the Web report service							
		ETP ac	ldress: ftp.	microsoft.	com			
		i n ac	ar coort (+ + +					
		User	name: bill.	gates				
		Pas	sword:	****				
		Folder	name:					
	Туре	Duration	Update	Width	Height	Filename		
	TH(LAeq,1s) + Sono	1 hour	5 min	640	400	%SN%_%MODEL	%_H1_1H.jpg	
	TH(LAeq,1s) + Sono	1 day	1 hour	640	400	%SN%_%MODEL		
	TH(LAeq,1s) + Sono	5 min	10 sec	640	400	%SN%_%MODEL	%_RT_5M.jpg	
	New	Edit		Remove	•	Import	Export	
1 1 1	Advanced settings	i			ОК	Car	ncel	

FIGURE 4-10 Web Publishing Setup

Setting	Description
Enable the Web Report Service	Enables/Disables Web Report service
FTP Address	The FTP server where the data file must be uploaded. It is possible to enter the address either in canonical form (ftp.domain.x) or in numeric form $(x.x.x.x)$.
Username	The user name to establish the FTP connection
Password	The password to establish the FTP connection
Folder name	The name of the sub folder where the data file is copied. If left empty, the files are copied to the root of the FTP site.
New	Adds a new graph to the list
Edit	Edits the graph to the list
Import/Export	Moves the web graph setup from one station to another
Advanced settings	Opens the Advanced Settings window. This window displays the settings required to publish a graph on your site.

Table 4-9 Web Publishing Settings

Clicking the **New** button or **Edit** button on the Web Report Service Setup box launches the Web Graph box, as shown in FIGURE 4-11.

WARNING!:Do not change the file name specified in the Web Graph box. The NoiseTutor station automatically populates this field. Leave the name exactly as it is provided by the station, unless your IT professional is providing a custom configuration. Otherwise, if you modify this setting, your web publishing will not function correctly. In the Web Graph box, you can specify that a single JPEG include a time history or a sonogram, or both. Do not change the file name. Wild cards are useful to distinguish JPEG names based on the model and serial number when the same web site is publishing data from more than one monitoring station. Table 4-10 describes the JPEG settings.

Web Graph	C. Alteration	فعري	ar e	ang distant ang Sang distant ang		×
🔽 Time Hist	ory			History:	4 (LAeq,1s)	•
🔽 Sonogran	n					
		Time length:	5 min		•	
		Update every:	10 sec		•	
	V	Vidth (pixels):	640			
	н	eight (pixels):	400			
	Filename:	%SN%_%M	DDEL%_RT_	5M.jpg		
File name is th folder). The filename o time.						1
%SN% %MODEL%		laced by the in laced by the in				
	0	<	Ca	ancel		

FIGURE 4-11 Web Graph Setup

Setting	Description
Time History	Includes a time history in the JPEG. On the right, specify one of the four available templates to be used.
Sonogram	Includes a sonogram in the JPEG
Time length	Determines the length of the time axis. Independently of the axis length, the graphs display the last captured data.
Update every	Sets the update time interval. To keep the internet traffic man- ageable, select this value proportionally to the length of the time axis.
Width/Height	Size of the JPEG in pixels
Filename	The destination file name

Table 4-10 JPEG Settings

Use the System Administration Messages box, as shown in FIGURE 4-12, to setup the e-mail messages for system administrators. These recipient list for these messages should contain only the address of the administrator(s) of the system. These messages are sent for events that requires administrator intervention. There are two events available:

- When the connection with the instrument is not possible (or failed for any reason).
- When Windows is restarted automatically by NoiseTutor (usually because of a locked internet connection).

E-mail System Administration Messages	×
🔽 Enable Administration E-mail	
Recipients list: New list	-
Subject: Enter subject	
Message text:	
Enter message text	
Send Administration Message when	
Connection with the instrument is not possible	
Windows has been restarted forcedly	
T Attach log file	
Licence is expiring within few days	
OK Cancel	

FIGURE 4-12 System Administration Messages

CHAPTER

Commands Menu

This chapter describes the functionality of the options on the **Commands** menu of the NoiseTutor station.

Main commands

Use **Start** and **Stop** on the **Commands** menu to start and stop the NoiseTutor Station operations. Clicking the **Start** command begins the connection with the instrument, checks if there is data to be downloaded, and begins the operations for the enabled services.

To setup the NoiseTutor station so that it automatically begins the **Start** command, refer to the section "Installing the NoiseTutor Software" in the *Installation and Setup* chapter of this manual. The automatic restart is effectively executed with a delay of 30 seconds from the program run. This delay is needed to allow Windows to complete loading.

The **Stop** command ends the NoiseTutor Station operations and disconnects the analyzer, but does not terminate the sending of messages or the uploading of files. If the job queue is not empty, this operation continues even after the **Stop** command has been completed.

The **Direct Screen** command displays a window that schematically reproduces the analyzer itself, with the buttons positioned as they are represented on an analyzer keyboard. The instrument screen is continuously displayed; thus it is possible to operate remotely on the instrument, as if it were in your hands. FIGURE 5-1 shows an example of the Direct Screen window.

Direct S	Direct Screen 0001 💌				
O	S 0:00:00.0 🛷 🗆				
LxT_Dat	a erall Sessio				
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	erali bessiu	dB			
LAS		uв			
	• •				
– 4	+4	U			
LAS 🔾		0 dB			
LZpeal		9 dB			
Started	??? Menu	00:00:00			
	Menu				
STOP/ST	ORE RU	IN/PAUSE			
	Û				
<u> </u>					
_⇔	ENTER				
	Û				
RESET	ON/OFF	TOOLS			
1x 1.5x	2x	ESC			

FIGURE 5-1 Direct Screen

APPENDIX



Technical Specifications

The specifications contained in this chapter are subject to change without notice.

System Power Requirements

Battery Runtime (continuous, streaming updates)	18.5 hours, from full charge, typical at 25 °C
Battery Runtime (daily updates)	3 days, from full charge, typical at 25 °C
Charge Time	6 hours
AC Input	90-240V, 50-60 Hz
Battery Voltage	12V
Battery Type	Lithium Ion
Battery Capacity	266 watt hours

Physical

Weight	18.25 lbs. (8.3 kg.)
Dimensions (W x L x H)	18 x 13 x 7 in. (46 x 33 x 18 cm.)

Environmental

Operating Temperature	- 40 to 176° F (- 40 to 80 °C)
Humidity	0 to 99%, relative humidity, non- condensing
Enclosure	Rated IP66

Station PC (provided)

Processor Speed	2 GHz
Memory	2 GB
Storage	16 GB
Operating System	Windows 7

For specifications of 831 or SoundTrack LxT sound level meters, refer to the technical reference manuals for those products.

Items not Included

- Instrumentation Tripod (TRP003)
- Website hosting items (PC, Microsoft IIS, and FTP)
- SIM card for cell access
- Software to administer the PC remotely, such as logmein, radmin, or teamviewer



Shipping Instructions

You may encounter some restrictions when shipping the NoiseTutor station because it includes a lithium ion battery. At the time of this printing, Fedex provides services for shipping products with lithium ion batteries; therefore, Larson Davis recommends their services for this product. Additionally, when shipping, follow these guidelines:

- **Step 1** Make sure the following are labelled and clearly visible on the outside of the shipping package:
 - •Class 9 hazard label

•Proper shipping name and United Nations (UN) assignment number: UN 3481, Lithium Ion Batteries Contained in Equipment.

Step 2 Complete a "Shipper's Declaration for Dangerous Goods" and affix it to your packaging. The form for this declaration is provided by your courier service.



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