



AI Driver Installation Guide

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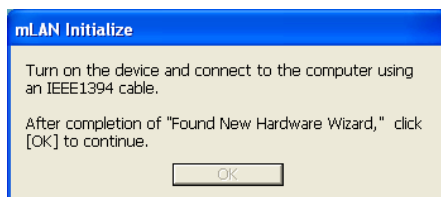
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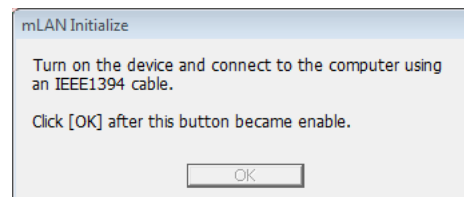
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Do not turn on the power to the n8/n12 or mLAN16E2-equipped device during installation until the computer displays the following message.

Windows XP



Windows Vista



Contents

SOFTWARE LICENSE AGREEMENT	1	Installing the software	4
SPECIAL NOTICES	2	Uninstalling the software	16
What is AI Driver?	3	Updating the software	17
System Requirements for Software	3	Troubleshooting	18
How this guide is organized.....	4		

What is AI Driver?

AI Driver is based on mLAN technology. It enables you to connect a single n8, n12 or mLAN16E2 to a computer and transfer audio/MIDI signals via an IEEE1394 cable.

NOTE

- The MOTIF XS8 is equipped with the mLAN16E2 as standard.

System Requirements for Software

The system requirements below are necessary for using AI Driver.

NOTE

- The system requirements below may differ slightly depending on the particular operating system.
- For details on minimum requirements for each DAW software, refer to the respective owner's manual.
- You can check the latest version information of AI Driver and its system requirements at the following website
<http://www.yamahasyth.com/download/>

OS:	Windows XP Professional SP2 or later/XP Home Edition SP2 or later/Vista (32bit)
Computer:	Intel Core/Pentium/Celeron family processor, with an S400 (400Mbps) IEEE1394 (FireWire) or i.Link terminal (*1).
Hard Disk:	Free disk space of 100 MB or more; high-speed hard disk

Windows XP Professional SP2 or later/XP Home Edition SP2 or later

•Recommended system requirements (*2)

CPU:	Intel Core 2 Duo 1.66GHz (or higher)
Available Memory:	512 MB or more

•Minimum system requirements (*2)

CPU:	Intel Pentium 1.4 GHz or Intel Celeron 1.7 GHz (or higher)
Available Memory:	512 MB or more

Windows Vista (32bit)

•Recommended system requirements (*2)

CPU:	Intel Core 2 Duo 1.8GHz (or higher)
Available Memory:	1 GB or more

•Minimum system requirements (*2)

CPU:	Intel Pentium 1.4 GHz or Intel Celeron 1.7 GHz (or higher)
Available Memory:	512 MB or more

*1 The computer must have an IEEE1394 (FireWire/i.LINK) connector. If there is no connector, install an IEEE1394 interface card (PCI or PC). For more details on system requirements and recommended PCI or PC cards, see the following page:
<http://www.yamahasyth.com/>

*2 The system requirements listed here apply when playing the audio/MIDI data described below on a typical DAW. This may differ depending on the particular DAW you are using.

Recommended system requirements

Frequency/resolution:	44.1KHz/24-bit
Audio playback tracks:	16
Audio recording tracks:	1
MIDI playback tracks:	18
MIDI Remote Control / Automation Send effects (plug-in):	3
Insert effects (plug-in):	9
Plug-in software synthesizer:	2
Latency:	about 6 msec

Minimum system requirements

Frequency/resolution:	44.1KHz/24-bit
Audio playback tracks:	15
MIDI Remote Control / Automation Send effects (plug-in):	3
Insert effects (plug-in):	9
Plug-in software synthesizer:	none
Latency:	about 50 msec

NOTE

- When using a laptop or notebook computer, a built-in IEEE1394 terminal may not be available. If this is the case, install an appropriate PC interface card.

How this guide is organized

Installing the software (page 4)

Explains how to install AI Driver for the first time.

Uninstalling the software (page 16)

Explains how to uninstall AI Driver.

Updating the software (page 17)

Explains how to update n Driver or the old version of AI Driver that you're currently using to the new version of the software. This section also explains how to replace mLAN Driver/mLAN Tools that you are currently using with AI Driver.

Troubleshooting (page 18)

Explains how to solve problems that you may encounter while you are using the n8/n12 or mLAN16E2 along with your computer.

Installing the software

CAUTION

- *Keep in mind that noise may be generated when installing or uninstalling AI Driver. Before performing either of these operations, make sure to lower the output level of each device.*

If you have already installed n Driver, AI Driver or mLAN Driver/mLAN Tools on your computer:

You must uninstall the driver software. During the installation of AI Driver, a software maintenance window appears. Follow the instructions in the window to remove the software. The installation of AI Driver will then resume.

For more information on removing the software, refer to [page 16](#).

If you are using mLAN devices that features S200 data transfer rate standard:

(Check the rear panel of your particular device, or refer to the specifications in the owner's manual.)

You must uninstall the old version of mLAN Tools beforehand. For more information on uninstalling the software, refer to the owner's manual for the corresponding device.

The installer will install the following two software components to your computer

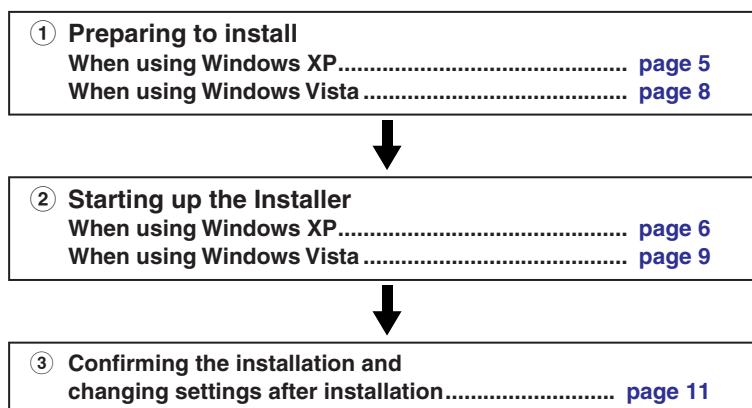
- **mLAN Tools 2.0**
- **AI Driver**

mLAN Tools 2.0 includes a driver that enables you to connect the n8/n12 or mLAN16E2 to a computer.

AI Driver enables audio and MIDI signals to be transferred between a computer and the n8/n12 or mLAN16E2 via an IEEE1394 cable.

This software enables you to connect a single n8, n12 or mLAN16E2 to a computer and transfer audio/MIDI signals via an IEEE1394 cable.

Follow the steps below to install these software applications.



NOTE

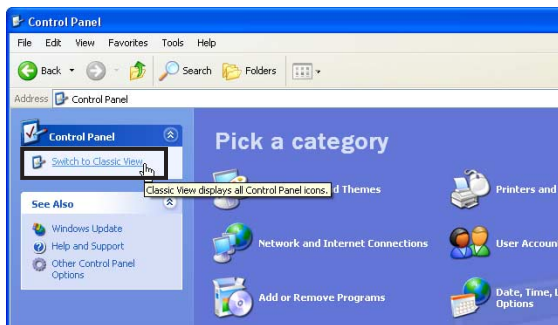
- For explanations of the error messages, see [page 18](#).

■ When using Windows XP

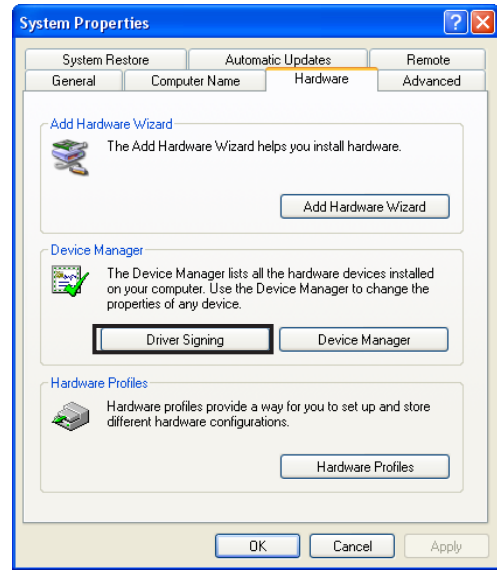
Preparing to install

- 1 Make sure that the power to the n8/n12 or mLAN16E2 is turned off.
- 2 Disconnect all MIDI cables that connect MIDI devices to MIDI IN/OUT jacks on the n8/n12 or mLAN16E2-equipped device.
- 3 Using an IEEE1394 cable, connect the n8/n12 or mLAN16E2 directly to the computer (without using a hub), and disconnect all other IEEE1394 devices from the computer.
- 4 Start the computer and log on to the Administrator account.
- 5 Select [Start] (→ [Settings]) → [Control Panel]. If the control panel appears as shown below, click “Switch to Classic View” in the upper left of the window.

All control panels and icons will be displayed.



- 6 Go to [System] → [Hardware] → [Driver Signing] → [Driver Signing Options], and select the radio button to the left of “Ignore - Install the software anyway and don’t ask for my approval” and click [OK].



NOTE

- After completing the installation, make sure to restore the original setting if necessary.
- 7 Check that no “!” or “x” marks appear next to “IEEE1394 Bus host controllers” in ([System] → [Hardware] →) [Device Manager]. If one of these marks is shown, the IEEE1394/i.LINK connection cannot be used. Refer to the owner’s manual of your computer for details.
 - 8 Click the Close button ([x]) at the top right of the Device Manager window, then click [OK] to close the System Properties window, then click the Close button ([x]) at the top right of the Control Panel window to close it.
 - 9 Exit any open applications and close all open windows.

Starting up the Installer

The installer will install the following two software components to your computer.

- **mLAN Tools 2.0**
- **AI Driver**

NOTE

- Use the Cancel button or Close button to quit the installation. Quitting by using the [Ctrl] + [Alt] + [Delete] buttons or by turning off the power while installation is in process can result in problems since the installation is terminated without performing a proper uninstall.

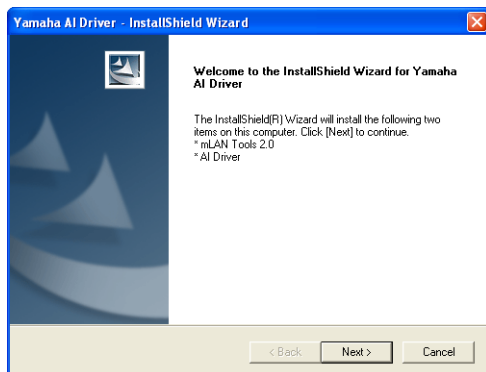
10 After the downloaded compressed file is properly extracted, double-click the “setup.exe” file.

NOTE

- If n Driver, AI Driver, or mLAN Driver/mLAN Tools has already been installed on your computer, a software maintenance window appears. Follow the instructions in the window to remove the software and install the new software. For more information on removing the software, refer to page 16.

11 A few confirmation messages appear. If there are no problems, click [OK] to close the dialog boxes.

When preparations for installation are finished, the “Welcome...” window appears.



Installing mLAN Tools 2.0

12 Click [Next].

The first screen in the procedure to install mLAN Tools appears.

13 Click [Next].

The “Choose Destination Location” window appears.

14 Confirm or select the desired drive and folder name for installing mLAN Tools, then click [Next] after making the selection.

The destination directory is automatically set; however, if you wish to change it, click the [Browse] button and select the desired folder (drive:\folder name).

NOTE

- In general, there is no need to change the destination directory.

15 Confirm the drive and folder name and click [Next] to start installation.

NOTE

- If a message “The software you are installing has not passed Windows Logo testing” appears, click [Continue Anyway]. You do not need to abort the installation. (This applies to the entire installation procedure.) If the message does not appear, proceed to the next step.

16 When installation is finished, a “Completed” message appears. Click [Finish].

Installing AI Driver

After the installation of mLAN Tools 2.0 is complete, the first screen in the procedure to install AI Driver appears.

17 Click [Next].

The “Choose Destination Location” window appears.

18 Set the destination drive and folder name for installing AI Driver.

The destination directory is automatically set; however, if you wish to change it, click the [Browse] button and select the desired folder (drive:\folder name).

NOTE

- In general, there is no need to change the destination directory.

19 Confirm the drive and folder name and click [Next] to start installation.

20 You are informed when the installation is complete.

Make sure that the radio button to the left of “Yes, I want to restart my computer now.” is selected, then click [Finish] to restart the computer.

When canceling the installation

If you’ve cancelled an installation before it is complete, the software may not have been installed properly. To install the software properly, resume the procedure from Step 10.

AI Driver initial settings

After you restart the computer, complete the AI Driver initial settings.

21 A dialog box in the upper left corner of the screen prompts you to turn on the power to the device. Connect the n8/n12 or mLAN16E2 to the computer, then turn on the power to the device.

The “Found New Hardware Wizard” window is displayed.

NOTE

- A dialog box may appear asking you whether you wish to connect to Windows Update. In this case, select the radio button to the left of “Not at this time”, then click [Next].

22 Select the radio button next to “Install the software automatically [Recommended]”, then click [Next].

23 You are informed when the installation is complete.

Click [Finish], then click [OK] in the same dialog box (that prompted you to turn on the power to the device) indicated in Step 21.

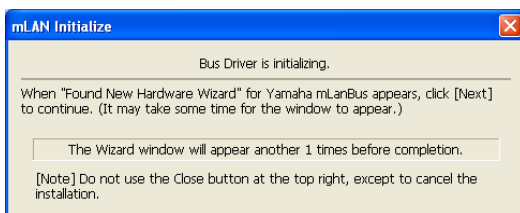
24 The following message appears in the upper left corner of the screen: “The driver initialization will be executed.”

Click [OK].

NOTE

- During Steps 25 and 26, and Steps 28 and 29, a window appears indicating that you are now making the initial settings for each device. This window also indicates the number of times the “Found New Hardware Wizard” will be displayed during the procedure. Unless you wish to cancel installation, do not close this window.

Example



Bus driver initial settings

25 The “Found New Hardware Wizard” window appears. Select the radio button next to “Install the software automatically [Recommended]”, then click [Next].



NOTE

- A dialog box may appear asking you whether you wish to connect to Windows Update. In this case, select the radio button to the left of “Not at this time”, then click [Next].

26 When the installation is complete, a message indicating that installation is complete appears. Click [Finish].

27 Repeat Steps 25 and 26 until the window (indicating that you are making the initial bus driver settings) closes.

Audio/MIDI driver settings

28 The “Found New Hardware Wizard” appears. Select the radio button next to “Install the software automatically [Recommended]”, then click [Next].



NOTE

- A dialog box may appear asking you whether you wish to connect to Windows Update. In this case, select the radio button to the left of “Not at this time”, then click [Next].

29 When the installation is complete, a message indicating that installation is complete appears.
Click [Finish].

30 Repeat Steps 28 and 29 until the window (indicating that you are making the Audio/MIDI driver initial settings) closes.

Establishing a connection

31 AI Driver is activated, and Connection Manager starts to establish a connection.

The process of making AI Driver initial settings is complete.



NOTE

- If AI Driver has been installed and its initial settings have been made, you can physically connect the n8/n12 or mLAN16E2 to your computer regardless of the power on/off status of the devices. To allow the n8/n12 or mLAN16E2 to be used along with the computer, AI Driver must be enabled (see page 11). When you connect the n8/n12 or mLAN16E2 to the computer, Connection Manager automatically makes all connection settings. During this process, the driver icon (see page 11) flashes. Wait until the icon lights up steadily.
- When you connect the n8/n12 or mLAN16E2 to the computer for the first time or you connect the different device than you have used before, a message (similar to the one shown in Step 31) appears indicating that the two devices are in the process of establishing a connection.

CAUTION

- *The flashing driver icon means that Connection Manager is checking an IEEE1394 device that is connected to the computer. While the icon is flashing, do not turn on or off the power to the connected IEEE1394 devices or connect/disconnect any IEEE1394 cables.*

When using Windows Vista

Preparing to install

- 1** Make sure that the power to the n8/n12 or mLAN16E2 is turned off.
- 2** Disconnect all MIDI cables that connect MIDI devices to MIDI IN/OUT jacks on the n8/n12 or mLAN16E2-equipped device.
- 3** Using an IEEE1394 cable, connect the n8/n12 or mLAN16E2 directly to the computer (without using a hub), and disconnect all other IEEE1394 devices from the computer.
- 4** Start the computer and log on to the Administrator account.
- 5** Select [Start] (→ [Settings]) → [Control Panel]. If the control panel appears as shown below, click “Classic View” in the upper left of the window.
All control panels and icons will be displayed.



6 Double-click the Device Manager icon.

NOTE

- If the “User Account Control” window appears, click [Continue].

7 Check that no “!” or “x” marks appear next to “IEEE1394 Bus host controllers.”

If one of these marks is shown, the IEEE1394/i.LINK connection cannot be used. Refer to the owner’s manual of your computer for details.

8 Click the Close button ([x]) at the top right of the Device Manager window, then click the Close button ([x]) at the top right of the Control Panel window to close it.

9 Exit any open applications and close all open windows.

Starting up the Installer

The installer will install the following two software components to your computer

- **mLAN Tools 2.0**
- **AI Driver**

NOTE

- Use the Cancel button or Close button to quit the installation. Quitting by using the [Ctrl] + [Alt] + [Delete] buttons or by turning off the power while installation is in process can result in problems since the installation is terminated without performing a proper uninstall.

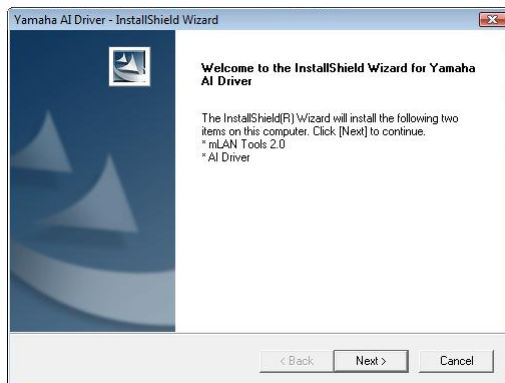
10 After the downloaded compressed file is properly extracted, double-click the “setup.exe” file.

NOTE

- If the “User Account Control” window appears, click [Continue].
- If n Driver, AI Driver, or mLAN Driver/mLAN Tools has already been installed on your computer, a software maintenance window appears. Follow the instructions in the window to remove the software and install the new software.
For more information on removing the software, refer to [page 16](#).

11 A confirmation message appears. If there are no problems, click [OK] to close the dialog box.

When preparations for installation are finished, the “Welcome...” window appears.



Installing mLAN Tools 2.0

12 Click [Next].

The first screen in the procedure to install mLAN Tools appears.

13 Click [Next].

The “Choose Destination Location” window appears.

14 Confirm or select the desired drive and folder name for installing mLAN Tools, then click [Next].

The destination directory is automatically set; however, if you wish to change it, click the [Browse] button and select the desired folder (drive:\folder name).

NOTE

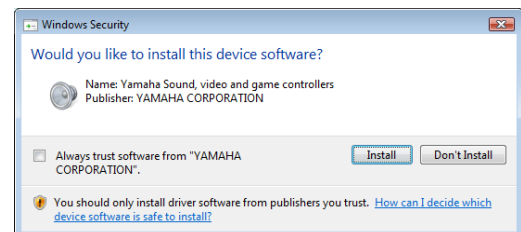
- In general, there is no need to change the destination directory.

15 Confirm the drive and folder name and click [Next] to start installation.

16 When installation is finished, a “Completed” message appears. Click [Finish].

NOTE

- If the “Windows Security” window appears, confirm that the publisher is “YAMAHA CORPORATION”, then click [Install].



Installing AI Driver

After the installation of mLAN Tools 2.0 is complete, the first screen in the procedure to install AI Driver appears.

17 Click [Next].

The “Choose Destination Location” window appears.

18 Set the destination drive and folder name for installing AI Driver.

The destination directory is automatically set; however, if you wish to change it, click the [Browse] button and select the desired folder (drive:\folder name).

NOTE

- In general, there is no need to change the destination directory.

19 Confirm the drive and folder name and click [Next] to start installation.

20 You are informed when the installation is complete.

Make sure that the radio button to the left of “Yes, I want to restart my computer now.” is selected, then click [Finish] to restart the computer.

NOTE

- If the “Windows Security” window appears, confirm that the publisher is “YAMAHA CORPORATION”, then click [Install].

When canceling the installation

If you’ve cancelled an installation before it is complete, the software may not have been installed properly. To install the software properly, resume the procedure from Step 10.

AI Driver initial settings

After you restart the computer, complete the AI Driver initial settings.

21 A dialog box in the upper left corner of the screen prompts you to turn on the power to the device. Connect the n8/n12 or mLAN16E2 to the computer, then turn on the power to the device.

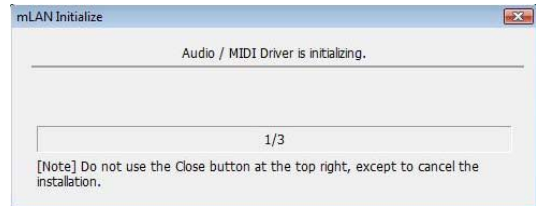
22 Click [OK] in the same dialog box (that prompted you to turn on the power to the device) indicated in Step 21.

23 The following message appears in the upper left corner of the screen: “The driver initialization will be executed.” Click [OK].

NOTE

- If the “User Account Control” window appears, click [Continue].

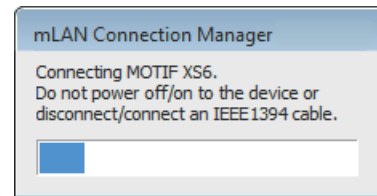
24 Initial setup of AI Driver is automatically started. Wait until the initial setup is completed. During this process, a window indicating the current status is shown at the upper left corner of the screen.



Establishing a connection

25 AI Driver is activated, and Connection Manager starts to establish a connection.

The process of making AI Driver initial settings is complete.



NOTE

- If AI Driver has been installed and its initial settings have been made, you can physically connect the n8/n12 or mLAN16E2 to your computer regardless of the power on/off status of the devices. To allow the n8/n12 or mLAN16E2 to be used along with the computer, AI Driver must be enabled (see page 11). When you connect the n8/n12 or mLAN16E2 to the computer, Connection Manager automatically makes all connection settings. During this process, the driver icon (see page 11) flashes. Wait until the icon lights up steadily.
- When you connect the n8/n12 or mLAN16E2 to the computer for the first time or you connect a different device than you have used before, a message (similar to the one shown in Step 25) appears indicating that the two devices are in the process of establishing a connection.

CAUTION

- The flashing driver icon means that Connection Manager is checking an IEEE1394 device that is connected to the computer. While the icon is flashing, do not turn on or off the power to the connected IEEE1394 devices or connect/disconnect any IEEE1394 cables.

Confirming the installation and changing settings after installation

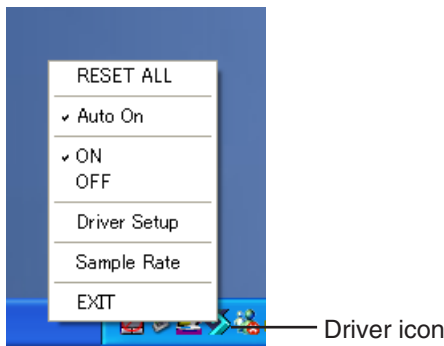
Confirming the installation

Taskbar Notification area

If the installation is successful, an AI Driver icon (🔊) is added to the task bar. To call up the menu, right-click on the icon.

NOTE 📝

- When AI Driver is disabled, the driver icon is white. When AI Driver is enabled, the driver icon is blue. To use the n8/n12 or mLAN16E2 along with a computer, you must enable AI Driver. While Connection Manager is checking an IEEE1394 device that is connected to the computer, the driver icon flashes.



- RESET ALL**Reverts all settings to default.
- Auto On**Enables AI Driver when the computer is started. By default, Auto On is set to “On.”
- ON**Enables AI Driver.
- OFF**Disables AI Driver. This setting reduces the CPU load when the n8/n12 or mLAN16E2 is not in use.
- Driver Setup**Starts Driver Setup (page 12).
- Sample Rate**Specifies the sample rate (page 12).
- EXIT**Disables AI Driver, then removes the AI Driver icon from the task bar again, from the Start menu, select [(All) Programs] → [Startup] → [mLAN Manager]. If Auto On is set to “On”, AI Driver is automatically enabled.

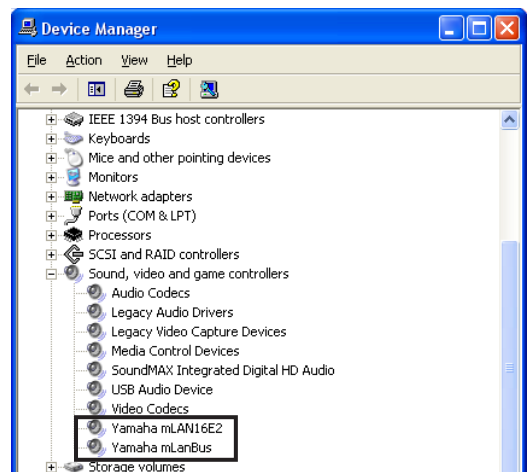
NOTE 📝

- The default setting of Auto On for AI Driver is “On”, which allows the computer to automatically enable AI Driver at startup.
- You can use Driver Setup to check whether data is being properly transmitted and received.

Device Manager (Operating System)

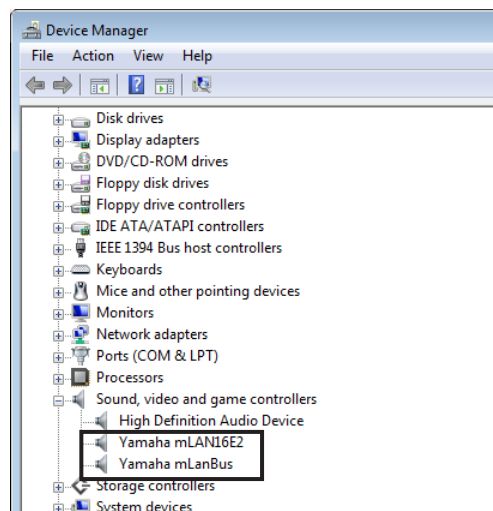
■ When using Windows XP

- 1 Select [Control Panel] from the Start menu.
- 2 Double-click on the System icon to call up the System Properties window.
- 3 Select the Hardware tab and click [Device Manager].
- 4 Click on the [+] mark next to “Sound, video and game controllers”, and confirm that “Yamaha n series” or “Yamaha mLAN16E2” and “Yamaha mLanBus” are listed.



■ When using Windows Vista

- 1 Select [Control Panel] from the Start menu.
 - 2 Double-click the Device Manager icon.
- NOTE** 📝
- If the “User Account Control” window appears, click [Continue].
- 3 Click on the [+] mark next to “Sound, video and game controllers”, and confirm that “Yamaha n series” or “Yamaha mLAN16E2” and “Yamaha mLanBus” are listed.



Changing settings after installation

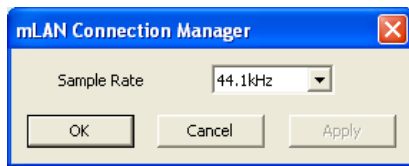
NOTE

- If AI Driver is being used by an application (such as a DAW), you cannot change the Sample Rate and Driver Setup settings. To change the settings, first quit the application. If an error message appears indicating that you cannot change a setting, refer to page 14.

Sample Rate

(Right-click the driver icon on the task bar → Sample Rate)

This dialog box enables you to set the sample rate.



Click the down arrow in the Sample Rate field, then select the desired sample rate. Click [OK] to apply the selection and close the dialog box.

By clicking [Apply], your selection will be applied and the dialog box will remain open. While you are changing the sample rate, a window appears indicating that the setting is being changed.

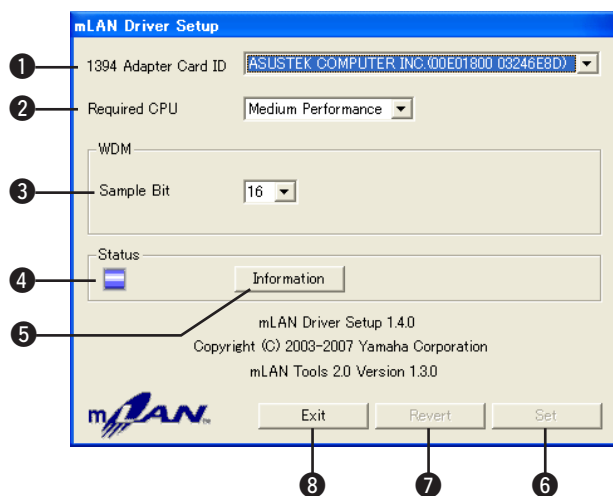
NOTE

- When using n8/n12, the n8/n12 [COMP] indicator flashes while you are changing the sample rate. For details, refer to the n8/n12 owner's manual.

Driver Setup

(Right-click the driver icon on the task bar → Driver Setup)

This dialog box enables you to set up communication with the n8/n12 or mLAN16E2, and to check data reception and transmission.



1 1394 Adapter Card ID

This field displays the ID of an IEEE1394 (FireWire/i.LINK) interface card installed in the computer. If multiple interfaces have been installed in the computer, select the interface that is used to connect the n8/n12 or mLAN16E2. The field will not display the ID of any interfaces that are not recognized by AI Driver.

NOTE

- The correct name of the manufacturer or vendor may not be displayed depending on the particular interface you are using.
- If multiple interfaces have been installed in the computer, the interface that is used to connect the n8/n12 or mLAN16E2 will be selected when you make the initial settings for AI Driver (see page 7 in Windows XP, see page 10 in Windows Vista). If you want to use another interface, first select the desired 1394 Adapter Card ID in the Driver Setup, then reconnect the IEEE1394 cable. Connection Manager will then re-establish a connection.

2 Required CPU

Determines the computer's required processing power (the amount of processing load applied to the computer by AI Driver).

You can also control the processing load by adjusting the latency in "ASIO Control Panel." (see next page)

3 WDM Sample Bit

This parameter enables you to specify the audio data bit resolution for the WDM driver.

4 Status

This field indicates the status of the audio/MIDI data transmitted from the n8/n12 or mLAN16E2 to the computer. It also displays an error message in the event that a transmission error occurs.

Blue.....Data is being properly transmitted.

Yellow.....Only one type of data (audio or MIDI) is being received.

Red.....Error in reception.

Gray.....No reception.

NOTE

- If an application, such as a DAW, is not using the AI Driver's audio or MIDI data, this field will not display an indication of correct status. Refer to this field when your application is running and using the AI Driver's audio or MIDI data.

5 Information

Click this button to display the Information window (see next page), which displays the current status of audio and MIDI data reception (from the n8/n12 or mLAN16E2 to the computer).

6 Set

Clicking this button actually applies the settings made in this dialog box. Changes to the settings do not take effect unless [Set] is clicked.

7 Revert

If you've made changes to the settings (but not yet clicked [Set]), clicking this button restores the settings made the last time [Set] was clicked. Once you click [Set], [Revert] cannot be used.

8 EXIT

Click to close the dialog box.

About the Information window

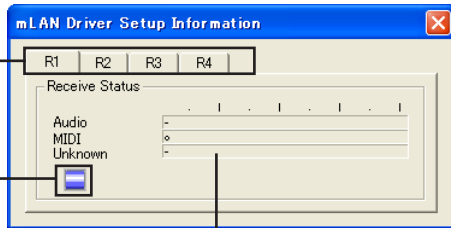
This window indicates the audio and MIDI data reception status (from the n8/n12 or mLAN16E2 to computer).

Icon

Blue..... Reception is normal.
 Red..... Error in reception.
 Gray..... No reception.

R1, R2, etc.

This indicates the data reception status. “R1” corresponds to MIDI reception while “R2” corresponds to audio reception. The number of tabs shown differs depending on your particular computer configuration.



Receive Status

These fields display a symbol that indicates that data is being received. The symbol “o” indicates that data in the corresponding format is being received. For example, the symbol “oooooooo-” in the “Audio” field indicates that nine data have been received, and the first eight data are audio data. The “Unknown” field displays symbols if data in unknown formats are received. These fields remain blank if no data is received.

If an error occurs during reception, a red warning message flashes. In this case, check the status of the n8/n12 or mLAN16E2-equipped device.

Latency and Required CPU

A particular computer configuration (i.e., processing speed and memory size) may affect the computer’s ability to properly record and play back audio data in your DAW, resulting in noise or other audio problems.

In most cases, you can solve these problems by adjusting the latency (delay time), as described in the right column on this page).

However depending on the performance of your computer and on how it is being used (i.e., whether other applications are being used simultaneously, etc.), you may still experience noise or sound interruption even after increasing the latency. In this case, change the “Required CPU” setting to “Medium Performance” or “Low Performance” to lighten the processing load on your computer, and then adjust the latency (the Preferred Buffer Size setting in the right column on this page) once again.

- Lower latency values result in shorter delay times and work better for real-time recording and playback.
- Higher latency values result in longer delay times, but allow for use of more audio channels and plug-in effects (thus reducing the computer’s momentary processing load).

Conversely, if you experience no noise or interruptions even with the “Preferred Buffer Size” setting described the right column set to the minimum, you can minimize the overall latency by setting Required CPU to “High Performance” and then adjusting the latency once again.

● Latency of AI Driver

Audio latency

Audio latency is determined by the “Preferred Buffer Size” setting in the “ASIO Control Panel.”

The audio latency value is shown in the “ASIO Control Panel” (see below).

MIDI latency

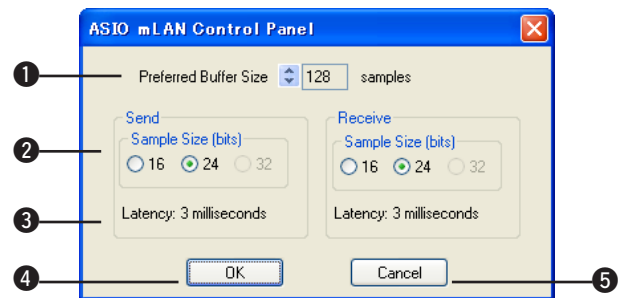
For information on the MIDI latency, refer to the “releasenotes_e.pdf” file.

● ASIO Control Panel

When using the ASIO Driver, open the ASIO Control Panel associated with the driver settings of the DAW software (the specific menu depends on the software you are using) and set the Preferred Buffer Size as needed. When you open the ASIO Control Panel, the following dialog box appears.

NOTE

- Also, when using the WDM driver, adjust as necessary the latency value of the WDM driver (which corresponds to the latency of the ASIO driver in this chart) within the driver settings of the DAW software.
- The initial setting of the Preferred Buffer Size of the ASIO driver is the smallest value.



① Preferred Buffer Size

This parameter enables you to specify the size of the buffer inside the ASIO driver.

② Sample Size

This parameter enables you to specify the bit resolution for audio data transmission and reception.

③ Latency

This field indicates the audio latency value. Audio latency is determined by the “Preferred Buffer Size (①)” setting.

④ OK

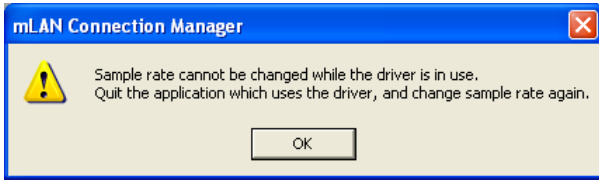
Click to enable the settings and close the dialog box.

⑤ Cancel

Click to close the dialog box without changing the settings.

When the settings of AI Driver cannot be changed, or when AI Driver cannot be uninstalled.

While you are trying to change the AI Driver settings or to uninstall AI Driver, a message similar to that shown below may appear:



■ When the settings of AI Driver cannot be changed.

When changing the Sample Rate / Driver Setup settings or when AI Driver cannot be disabled or “RESET ALL” cannot be executed, follow the instructions below.

If AI Driver is being used with an application (such as the DAW):

You cannot change the AI Driver settings. First quit the application that is using AI Driver, then try again.

If the WDM driver is selected as the default device for Windows:

Even if the application is not running, you may be unable to change the AI Driver settings.

If the WDM driver (“mLAN Audio Out” or “mLAN MIDI Out”) has been selected as the default device for Windows, follow the steps below to de-select the WDM driver, restart the computer and then try to change AI Driver.

When using Windows XP

- 1 From the Start menu, select ([Settings] →) [Control Panel] → [Sounds and Audio Devices] → [Voice]. Make sure that something other than “mLAN Audio Out” is selected for the “Voice playback” setting.
- 2 From the Start menu, select ([Settings] →) [Control Panel] → [Sounds and Audio Devices] → [Audio]. Make sure that something other than “mLAN Audio Out” is selected for the “Sound playback” setting.
- 3 From the Start menu, select ([Settings] →) [Control Panel] → [Sounds and Audio Devices] → [Audio], then select any option other than the items from “mLAN MIDI Out” through “mLAN MIDI Out (8)” for the “MIDI music playback” setting.

When using Windows Vista

From the Start menu, select ([Settings] →) [Control Panel] → [Sound] → [Playback]. Make sure that something other than “Line Out mLAN Audio Out” is selected, then click [Set Default].

NOTE

- When you turn on the power to the n8/n12 or mLAN16E2-equipped device, Windows may automatically specify the WDM driver as the default device for Windows.

Set the Sound scheme to “No sounds”

After following the steps below, restart the computer, then try to change AI Driver.

When using Windows XP

Select [Start] (→) [Settings] → [Control Panel] → [Sounds and Audio Devices] → [Sounds], then select “No Sounds” in the [Sound scheme].

When using Windows Vista

Select [Start] (→) [Settings] → [Control Panel] → [Sound] → [Sounds], then select “No Sounds” in the [Sound Scheme].

■ When AI Driver cannot be uninstalled.

Right-click the driver icon on the task bar to display the pop-up menu, disable [Auto On] in the menu (see [page 11](#)), and restart the computer. Then, try to uninstall the driver again.

Hints when using audio data

For optimum use of the audio functions, we recommend you make the following settings. These settings minimize possible audio problems, such as drop outs, glitches and noise.

- **Set the DMA mode (high-speed transfer mode) of the hard disk to on**

Windows XP

Select [Control Panel] → [System] → [Hardware] → [Device Manager] → “IDE ATA/ATAPI controllers”, then double-click “Primary IDE Channel” and “Secondary IDE Channel”, open [Advanced Settings]. Set “Transfer Mode” in the “Device” section to “DMA if available.”

Windows Vista

Select [Control Panel] → [Device Manager] (→ [Continue] in the “User Account Control” window) → “IDE ATA/ATAPI controllers”, then double-click “ATA Channel 0” and open [Advanced Settings]. Check (enable) “Enable DMA” in the “Device Properties” section.

- **Set Processor Scheduling to “Background services”**

Windows XP

Select [Control Panel] → [System] → [Advanced] → [Settings] in the “Performance” section → [Advanced] and select the radio button to the left of “Background services” in the “Processor scheduling” section.

Windows Vista

Select [Control Panel] → [System] → [Advanced system settings] in the upper left of the window (→ [Continue] in the “User Account Control” window) → [Advanced] → [Settings] in the “Performance” section → [Advanced] and select the radio button to the left of “Background services” in the “Processor scheduling” section.

- **Set the Visual Effects options to “best performance”**

Windows XP

Select [Control Panel] → [System] → [Advanced] → [Settings] in the “Performance” section → [Visual Effects] and select the radio button to the left of “Adjust for best performance.”

Windows Vista

Select [Control Panel] → [System] → [Advanced system settings] in the upper left of the window (→ [Continue] in the “User Account Control” window) → [Advanced] → [Settings] in the “Performance” section → [Visual Effects] and select the radio button to the left of “Adjust for best performance.”

- **Set Remote Assistance to off**

Windows XP

Select [Control Panel] → [System] → [Remote] and uncheck “Allow Remote Assistance invitations...”

Windows Vista

Select [Control Panel] → [System] → [Remote settings] in the upper left of the window (→ [Continue] in the “User Account Control” window) → [Remote] and uncheck “Allow Remote Assistance connections...”

- **Enable the Classic Start menu**

Right-click on an empty space on the task bar and select [Properties] → [Start Menu], then select the radio button to the left of “Classic Start menu.”

- **Disable transition effects**

Windows XP

Select [Control Panel] → [Display] → [Appearance] → [Effects...], and un-check (disable) “Use the following transition effect for menus and tooltips.”

Windows Vista

Select [Control Panel] → [Ease of Access Center] → “Make it easier to focus on tasks”, then check (enable) “Turn off all unnecessary animations (when possible)” in the “Adjust time limits and flashing visuals” section.

- **Disable SpeedStep™**

Refer to “Troubleshooting” (see [page 18](#)).

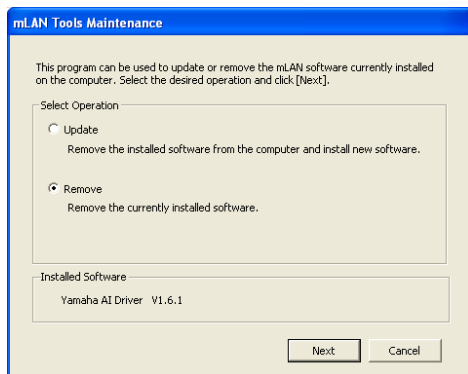
Uninstalling the software

To uninstall AI Driver, you must remove the following two software components:

- AI Driver
- mLAN Tools 2.0

Installed software can be removed from your computer as follows.

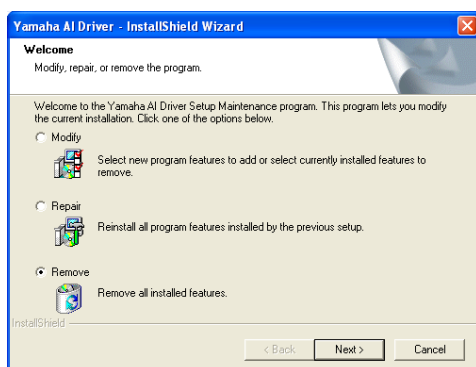
- 1 After the downloaded compressed file is properly extracted, double-click the “setup.exe” file.**
The maintenance window appears.



NOTE

- When using Windows Vista, click [Continue] if the “User Account Control” window appeared. After that, the maintenance window will appear.
- If AI Driver has not been installed, AI Driver Installer starts.

- 2 Select the radio button to the left of “Remove”, then click [Next].**
- 3 A message “Remove Yamaha AI Driver” appears. Click [Next].**
- 4 “Welcome” window appears. Check the radio button to the left of “Remove”, then click [Next].**



- 5 Confirmation regarding removal of the file appears. Click [OK].**
The maintenance operation starts.
- 6 You are informed when the maintenance operation is complete. Click [Finish].**
- 7 The message “Remove mLAN Tools 2.0” appears. Click [Next].**

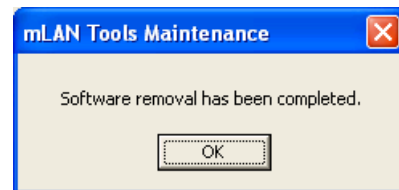
- 8 Confirmation regarding removal of the file appears. Click [OK].**

The maintenance operation starts.

- 9 You are informed when the maintenance operation is complete. Click [Finish].**

- 10 A dialog box indicating that “The software has been removed” appears. Click [OK].**

The uninstallation of AI Driver is complete.



NOTE

You can also uninstall the software by using “Add or Remove Programs” / “Programs and Features” in the Windows Control Panel.

Remove the following two software programs in the listed order by following the steps below. (Be sure to remove software 1, then software 2.)

- 1) Yamaha AI Driver
- 2) mLAN Tools 2.0

■ When using Windows XP

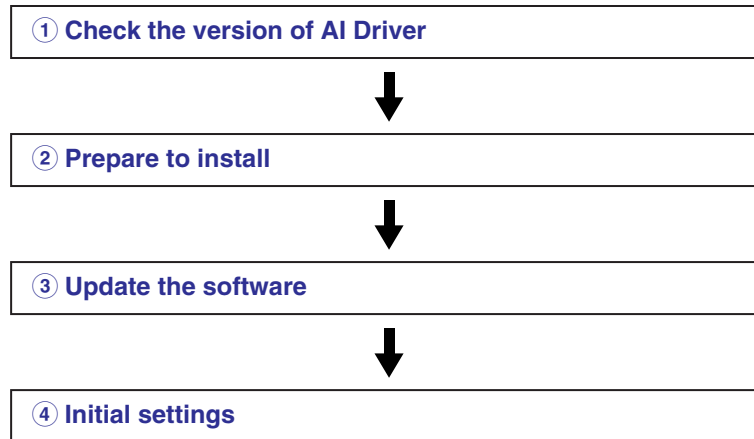
- 1** From the Start menu, select ([Settings] →) [Control Panel] → [Add or Remove Programs] to display the Add or Remove Programs panel.
- 2** Click “Change or Remove Programs” located in the upper left, then select “Yamaha AI Driver” from the list in the right pane.
- 3** Click [Change/Remove].
A dialog box appears. Follow the instructions to remove the software.
- 4** In the same manner as described above steps #1 - #3, select “mLAN Tools 2.0” from the list, then click [Change/Remove].
A dialog box appears. Follow the instructions to remove the software.

■ When using Windows Vista

- 1** From the Start menu, select ([Settings] →) [Control Panel] → [Programs and Features] to display the “Uninstall or change a program” window.
- 2** Select “Yamaha AI Driver” from the list.
- 3** Click [Uninstall/Change].
If the “User Account Control” window appears, click [Continue].
A dialog box appears. Follow the instructions to remove the software.
- 4** In the same manner as described above steps #1 - #3, select “mLAN Tools 2.0” from the list, then click [Uninstall/Change].
A dialog box appears. Follow the instructions to remove the software.

Updating the software

Here's how to update n Driver or the old version of AI Driver you're currently using to the new version, or how to change the mLAN Driver/mLAN Tools you're currently using to AI Driver. If you're installing AI Driver for the first time, refer to [page 4](#). You must use the following procedure to update AI Driver.



① Check the version of AI Driver

Check the version of currently installed AI Driver as follows.

- 1-1 After the downloaded compressed file is properly extracted, double-click the “setup.exe” file.**
The maintenance window appears.

NOTE

- When using Windows Vista, click [Continue] if the “User Account Control” window appeared.
After that, the maintenance screen will appear.

- 1-2 Check the “Installed Software” section.**

If the currently installed software is “Yamaha AI Driver” and the version is the latest version, you don't need to update.

- 1-3 Click [Cancel] to close the maintenance window.**

NOTE

- If the n Driver, AI Driver, or mLAN Driver/mLAN Tools has not been installed, AI Driver Installer starts after double-clicking the “setup.exe” file.

② Prepare to install

Make the preparations that are required for the installation. Refer to [page 4](#) for details.

③ Update the software

Uninstall the old version of the software and install the new version of the software as follows.

- 3-1 After the downloaded compressed file is properly extracted, double-click the “setup.exe” file.**
The maintenance window appears.

NOTE

- When using Windows Vista, click [Continue] if the “User Account Control” window appeared.
After that, the maintenance screen will appear.

- 3-2 Select the radio button to the left of “Update”, then click [Next].**

- 3-3 Follow the instructions to uninstall the old version of the software, then install the new version of the software.**

For details, refer to “Uninstalling the software” (see [page 16](#)) and “Installing the software” (see [page 4](#)). The method for uninstalling n Driver or mLAN Driver/mLAN Tools is the same as in the procedure “Uninstalling the software.”

④ Initial settings

When you restart the computer after installing AI Driver, make the AI Driver initial settings. For details, refer to [page 5](#) (when using Windows XP) or [page 8](#) (when using Windows Vista).

Troubleshooting

■ If an error message appears:

- If you see one of the following messages, right-click the driver icon on the task bar and select “ON” (see [page 11](#)) to enable AI Driver:
“Select “ON” from the menu of “mLAN Manager” application.”
“Execute mLAN Start.”
“Start mLAN”
- If a message “Execute mLAN Stop” appears, right-click the driver icon on the task bar and select “OFF” (see [page 11](#)) to disable AI Driver.
- If other error messages appear, follow the instructions on the screen.

■ No sound is heard, or the sound is too faint.

Setting on the computer

- The volume settings within your application must be set to appropriate levels.
- Make sure that AI Driver is enabled. (The driver icon should be blue.) If not, right-click the driver icon on the task bar, then select “ON.”
Refer to “Confirming the installation” (see [page 11](#))
- Are the other settings of AI Driver appropriate?
Refer to “Unable to transfer/receive audio data or MIDI data.” item in this chapter.

Setting on the n8/n12 or mLAN16E2-equipped device and other external devices

- Make sure that the speakers or headphones are connected correctly.
- Make sure that the power to your amplifier and other external devices are turned on.
- The volume of all connected tone generators and playback devices must be set to an appropriate level.
- Make sure that a signal from an external device or the DAW is being sent to the n8/n12’s input or the mLAN16E2’s input.
- The cable that connects the n8/n12 or mLAN16E2-equipped device and the external device may be damaged.

■ Sound is distorted.

Setting on the computer, the n8/n12 or mLAN16E2-equipped device and other external devices

- Make sure that audio was recorded at an appropriate level.
- The cable that connects the n8/n12 or mLAN16E2-equipped device and the external device may be damaged.

■ Noise.

Setting on the computer

- Make sure that your computer satisfies the system requirements.
Refer to “System Requirements for Software” (see [page 3](#))
- Make sure that the latency setting of AI Driver is appropriate.
Refer to “Driver Setup” (see [page 12](#)) and “ASIO Control Panel” (see [page 13](#))
- Make sure that the sample rate is appropriate. A high sample rate may be the cause of noise, depending on the computer’s capacity and speed.
Refer to “Sample Rate” (see [page 12](#))

- If your computer’s hard disk is slow, problems may occur during recording and playback.
- Try increasing the computer’s memory capacity.
- Quit all applications that are running in the background when you use AI Driver. If such software is running, driver operation may become unstable and create noise. When you are not using AI Driver, you can start up these applications again.
- Some Intel mobile CPUs feature SpeedStep™ technology. If you are using the n8/n12 or mLAN16E2 along with such a computer, disable the SpeedStep™ technology function. Most computers allow you to disable this in the BIOS. For more information, refer to the owner’s manual for the computer, or contact the manufacturer of the computer.
- Some network adaptors can cause noise. In such a case, use the Device Manager to disable the suspected network adaptor to remove the noise.

Connecting the n8/n12 or mLAN16E2

- The IEEE1394 cable may be damaged. Cables that do not satisfy IEEE1394 (S400) standards may cause noise.
- There may be a noise-producing device (such as a device containing a power inverter, etc.) near the IEEE1394 cable. Move all cables away from any possible sources of noise.

Setting the n8/n12 or mLAN16E2-equipped device and other external devices

- There may be a noise-producing device (such as a device containing a power inverter, etc.) near the cable connecting the n8/n12 or mLAN16E2-equipped device to other external devices. Move all cables away from any possible sources of noise.

■ The computer processing speed is too slow.

■ The computer’s CPU meter indicates a heavy processing load.

■ Playback response is delayed.

■ Insufficient tracks for recording or playback.

Setting on the computer

- Make sure your computer satisfies the system requirements.
Refer to “System Requirements for Software” (see [page 3](#))
- Try increasing the latency value of AI Driver.
Refer to “Driver Setup” (see [page 12](#)) and “ASIO Control Panel” (see [page 13](#))
- If you will not be using AI Driver, you can reduce the load on the computer by disabling AI Driver. (Right-clicking the driver icon on the task bar, then select “OFF.”)
Refer to “Confirming the installation” (see [page 11](#)),
- Refer to “Hints when using audio data” on [page 15](#).

■ An application, such as a DAW, fails to recognize AI Driver (audio/MIDI).

Setting on the computer

- Make sure that AI Driver is enabled. (The driver icon should be blue.) If not, right-click the driver icon on the task bar, then select “ON.”
Refer to “Confirming the installation” (see page 11)
- Are the other settings of AI Driver appropriate?
Refer to “Unable to transfer/receive audio data or MIDI data.” item in this chapter.

■ Recorded devices aren’t selected.

Setting on the computer

- Use an ASIO compatible application. Recording by other than ASIO-compatible application is not possible.

■ Unable to transfer/receive audio data or MIDI data.

Setting on the computer

- AI Driver may not have been installed or set up correctly.
- Make sure that the driver is enabled. (The driver icon should be blue.) If not, right-click the driver icon on the task bar, then select “ON.”
Refer to “Confirming the installation” (see page 11)

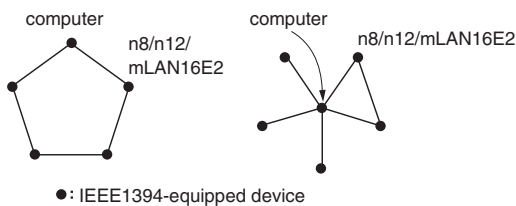
Establishing a connection

- When you connect the n8/n12 or mLAN16E2, make sure that Connection Manager starts to establish a connection automatically. (Make sure that the system displays a screen indicating that the connection is in progress.) (see page 8 and 10) If not, right-click the driver icon on the task bar, then select “RESET ALL” to reset the connection. The connection process resumes from the beginning. (This connection screen is supposed to appear the first time you connect the n8/n12 or mLAN16E2 to your computer. If you connect the n8/n12 or mLAN16E2 to a computer, then later switch to another computer, and then connect it to the previous computer, this screen also appears.)
- Try returning the settings to their default state by right-clicking the driver icon on the task bar and selecting “RESET ALL.”

Connecting the n8/n12 or mLAN16E2

- Make sure that the IEEE1394 cable is connected properly, and that the power to the n8/n12 or mLAN16E2-equipped device has been turned on. Disconnect the IEEE1394 cable once, then insert it again.
- There may be a loop connection. Check the cabling to make sure that none of the devices are connected in a loop.

Example of loop connection



- If IEEE1394 devices other than the n8/n12 or mLAN16E2 are connected to the computer, disconnect all IEEE1394 devices from your computer except for the n8/n12 or mLAN16E2, and try connecting a single n8/n12 or mLAN16E2 device to your computer.

- There may be multiple IEEE1394 interfaces installed on the computer. In this case, right-click the driver icon on the task bar, then select Driver Setup, and then select one of the IEEE1394 interfaces to which you wish to connect the n8/n12 or mLAN16E2. Finally, re-insert the IEEE1394 cable. Connection Manager automatically makes all connection settings again.

Refer to “Driver Setup” (see page 12)

■ Unable to transfer/receive MIDI data or Program Changes.

Setting on the computer, the mLAN16E2-equipped device and other external devices

- In the application, such as a DAW, make sure the correct MIDI port have been selected.
- Make sure the transmission and reception channels of each device or application (such as a DAW) match.
- Are the MIDI settings of the mLAN16E2-equipped device appropriate?
Refer to the Owner’s Manual of the mLAN16E2-equipped device
- Is the power turned on for the transmitting and receiving devices?

Connecting the n8/n12 or mLAN16E2

- Make sure that the IEEE1394 cable is connected properly.
- Make sure that the IEEE1394 cable is not broken.

■ Cannot change the settings of Sample Rate/ Driver Setup.

■ Cannot disable AI Driver./ Fail to execute “RESET ALL.”

- Refer to “When the settings of AI Driver cannot be changed, or when AI Driver cannot be uninstalled.” (see page 14).

■ Cannot uninstall (remove) AI Driver.

- Refer to “When the settings of AI Driver cannot be changed, or when AI Driver cannot be uninstalled.” (see page 14).

■ The driver icon in the task bar has disappeared.

- Select [Start] → [(All) Programs] → [Startup] or [mLAN Tools], then select mLAN Manager.

■ Cannot use other connected IEEE1394-equipped devices correctly.

- Turn AI Driver off. To do so, right-clicking the driver icon on the task bar, then select “OFF.”

Refer to “Confirming the installation” (see page 11)

NOTE

- For information on audio problems such as no sound or excess noise, refer to the Troubleshooting section of the n8/n12 or mLAN16E2-equipped device Owner’s Manual as well as the Troubleshooting section of this Installation Guide.