



# **TOOLS for n Version2/Cubase AI**

**Installation Guide**  
**Installationshandbuch**  
**Manuel d'installation**  
**Guía de instalación**

*English*

*Deutsch*

*Français*

*Español*

EN  
DE  
FR  
ES

# SPECIAL NOTICES

## **Caution**

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- These disks are NOT for audio/visual purpose. Do not attempt to play the disks on a CD/DVD player. Doing so may result in irreparable damage to your audio CD/DVD player.
- The software included in the TOOLS for n Version2 CD-ROM may be revised and updated without prior notice. Make sure to check and download the latest version of the software from the following site.  
<http://www.yamahasyth.com/download/>
- For information about the minimum system requirements and latest information of Cubase AI, check the web site below.  
<http://www.yamahasyth.com/>
- Future upgrades of application and system software and any changes in specifications and functions will be announced separately.
- The screen displays as illustrated in this manual are for instructional purposes, and may appear somewhat different from the screens which appear on your computer.

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English

## About the Disks Included in the Package

### Operating System (OS)

The software on these disks is for the Windows and Macintosh operating system. Refer to page 4 (for Windows) or page 5 (for Macintosh) to install the software.

### CD/DVD-ROM Installation Procedure

Before breaking the seal of the disk's packaging, please read carefully the "Software License Agreement for TOOLS for n Version2" on page 19 of this guide.

- 1** Verify that your system meets the operating requirements of the software. ....page 4
- 2** Install Cubase AI. ....page 6
- 3** Install TOOLS for n Version2. ....page 6
- 4** Start up the software.

For subsequent operations, refer to the owner's manual for the n8/n12 and Cubase AI (online help/PDF manual).

**NOTE** 

- To view PDF files, you must install Adobe Reader on your computer.  
If you do not have Adobe Reader, you can download the application from the Adobe website at the following URL:  
<http://www.adobe.com>

**Quick solutions/Reference materials**

- Changing the driver settings .....page 14
- Uninstalling or re-installing the driver
  - Windows XP: .....page 9
  - Windows Vista/7: .....page 11
  - Macintosh: .....page 13
- Resolving communication problems with the n8/n12  
Refer to the section "Troubleshooting" in the n8/n12 Owner's Manual.

## Disk Contents

The disks contain the following software and data.

### ● TOOLS for n Version2

Software Name	Contents
TOOLS for n Version2	TOOLS for n Version2 consists of two software components: Yamaha Steinberg FW Driver and n Extension. Yamaha Steinberg FW Driver enables audio/MIDI signals to be transferred between a computer and the n8/n12 via IEEE1394 cables. Up to three devices compatible with Yamaha Steinberg FW Driver can be used simultaneously. Keep in mind that up to two devices can be connected when the Sample Rate is set to 88.2 kHz or 96 kHz. Using n Extension, you can link the n8/n12 with Cubase versions such as Cubase 4.5 and Cubase AI 4.5 that support the Link functions between both of them. The TOOLS for n Version2 Installer installs these two software components.

### ● Cubase AI

Software Name	Contents
Cubase AI	Cubase AI is a special version developed for Yamaha products, based on Steinberg Cubase, which is very popular among a wide range of users. Cubase AI features an Advanced Integration function that integrates various hardware devices, including the Yamaha n series, and provides an integrated operational environment. Cubase AI also features the content data that is carefully selected from the Yamaha MOTIF series, Yamaha's synthesizer flagship models.

## System Requirements for Software

The system requirements below are necessary for installing software included in the accessory disks (TOOLS for n Version2 and Cubase AI).

### NOTE

- Note that the system requirements may be slightly different from those described below depending on the particular operating system.
- For details on minimum requirements for other DAW software, refer to the respective owner's manual.  
You can check the latest version information of Cubase series and their system requirements at the following website.  
<http://www.steinberg.net/>
- You can check the latest version information of TOOLS for n Version 2 and their system requirements at the following website.  
<http://www.yamahasyth.com/>

## ■ Windows

<b>OS</b>	: Windows XP Professional SP3/XP Home Edition SP3/Vista SP1 or later (32-bit (*1))/ Windows 7 (32-bit (*1))
<b>CPU</b>	: Pentium/Athlon 2GHz or more (dual core CPU recommended)
<b>Memory</b>	: 1 GB or more
<b>Display Resolution</b>	: 1280 x 800 - full color
<b>Interface</b>	: S400 (400 Mbps) IEEE1394 (FireWire) or i.Link connector (*2) (*3)
<b>Hard Disk</b>	: Free disk space of 100MB or more (TOOLS for n Version2), Free disk space of 1GB or more (Cubase AI), high-speed hard disk

\*1 The TOOLS for n Version2 for Windows Vista 64-bit/Windows 7 64-bit can be downloaded from the following address:  
<http://www.yamahasyth.com/download/>

\*2 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/>

\*3 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.

### IMPORTANT

- A DVD drive is required for installation.
- In order to have continuous use of Cubase AI, including support and other benefits, you will need to register the software and activate your software license by starting it while the computer is connected to the Internet.

## ■ Macintosh

<b>OS</b>	: Mac OS X 10.5.5, 10.6.x (*1)
<b>CPU</b>	: PowerPC G5 (Intel Core Duo CPU recommended)
<b>Memory</b>	: 1 GB or more
<b>Display Resolution</b>	: 1280 x 800 - full color
<b>Interface</b>	: With a FireWire port
<b>Hard Disk</b>	: Free disk space of 100MB or more (TOOLS for n Version2), Free disk space of 1GB or more (Cubase AI), high-speed hard disk

\*1 The TOOLS for n Version2 works properly on Mac OS X 10.4 (Mac OS X 10.4.9 or later for Intel-based Macintosh computer).

### **IMPORTANT**

- A DVD drive is required for installation.
- In order to have continuous use of Cubase AI, including support and other benefits, you will need to register the software and activate your software license by starting it while the computer is connected to the Internet.

# About the Cubase AI DVD-ROM

## Installation

### NOTE

- If you have already installed a version of Cubase compatible with the Link function, such as Cubase 5, the instructions for “Installing Cubase AI” are not necessary. Jump to the next section “Installing TOOLS for n Version2.”

**1 Start the computer and log on to the Administrator account.**

**2 Insert the Cubase AI DVD-ROM into the DVD-ROM drive.**

Follow the on-screen instructions to install Cubase AI.

### NOTE

- In order to have continuous use of Cubase AI, including support and other benefits, you will need to register the software and to activate your software license by starting it while the computer is connected to the Internet. Click the “Register Now” button shown when the software is started, then fill in all required fields for registration. If you do not register the software, you will be unable to use it after a limited period of time expires.

## About the TOOLS for n Version2 CD-ROM

### **CAUTION**

- Keep in mind that noise may be generated when installing or uninstalling the TOOLS for n Version2. Before performing either of these operations, make sure to lower the output level of each device.

TOOLS for n Version2 consists of two software components: Yamaha Steinberg FW Driver and n Extension. Yamaha Steinberg FW Driver enables audio/MIDI signals to be transferred between a computer and the n8/n12 via IEEE1394 cables. Up to three devices compatible with Yamaha Steinberg FW Driver can be used simultaneously. Keep in mind that up to two devices can be connected when the Sample Rate is set to 88.2 kHz or 96 kHz. Using n Extension, you can link the n8/n12 with Cubase versions such as Cubase 4.5 and Cubase AI 4.5 that support the Link functions between both of them. The TOOLS for n Version2 Installer installs these two software components.

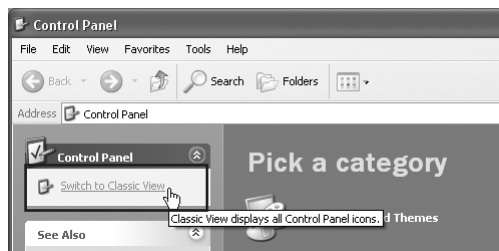
#### **If using mLAN Driver/mLAN Tools with Windows:**

- If you are using mLAN Driver/mLAN Tools V1.6.2, update them to V1.6.3 (or higher) before installing TOOLS for n Version2. This is necessary because the Yamaha Steinberg FW Driver cannot work properly with the mLAN Driver/mLAN Tools V1.6.2 installed.
- When using Yamaha Steinberg FW Driver, make sure to disable the mLAN Driver. If this is enabled (on), Yamaha Steinberg FW Driver cannot work because the mLAN Driver uses the IEEE1394 interface.
- When using the mLAN Driver, make sure to turn off any devices compatible with Yamaha Steinberg FW Driver or disconnect them from the computer before enabling the mLAN driver.
- Note that you may not need to disable the mLAN driver when the computer is equipped with multiple IEEE1394 interfaces and a device compatible with Yamaha Steinberg FW driver is connected to the different IEEE1394 interface from the other used by the mLAN driver.

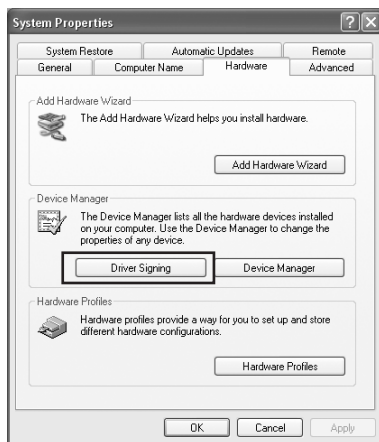
## Installation(Windows XP)

### Preparing to install

- 1 Make sure that the power to the n8/n12 is turned off.
- 2 Using an IEEE1394 cable, connect the n8/n12 directly to the computer (without using a hub), and disconnect all other IEEE1394 devices from the computer.
- 3 Start the computer and log on to the Administrator account.
- 4 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.



- 5 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.

- 6 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.
- 7 Close the Device Manager window, System Properties window and Control Panel by clicking the [OK] button or the Close button ([X]) of the windows.
- 8 Exit any open applications and close all open windows.
- 9 Insert the TOOLS for n Version2 CD-ROM into the CD-ROM drive.

### Software Installation

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

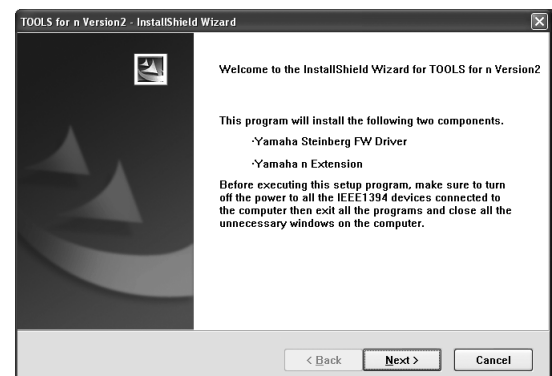
- Yamaha Steinberg FW Driver
- n Extension

#### 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 Open the CD-ROM, then double-click the file “setup.exe.”

A “Welcome to the InstallShield Wizard for TOOLS for n Version2” window appears.



- 11 Click [Next].

**12 Follow the on-screen instructions in the Setup window for Yamaha Steinberg FW Driver, n Extension appearing in order.**

**NOTE**

- If the same version of each software component has already been installed in your computer, the installation window of the corresponding software will not appear.
- 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. If the message does not appear, proceed to the next step.

**13 When installation is complete, a message indicating so appears. If restarting of the computer is necessary following successful completion of the installation, 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. If restarting the computer is unnecessary, click [Finish] to exit the installation process.**

**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.

**Initial settings of driver**

After you've installed TOOLS for n Version2, perform the initial settings of the driver.

**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].

**Bus driver initial settings**

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



**15 When installation is complete, a message indicating so appears. Click [Finish].**

**NOTE**

- If multiple IEEE1394 interfaces have been installed to the computer, the wizard appears several times. Exit the wizard each time.

**Initial Settings of n series FW Driver**

**16 Turn on the power to the n8/n12.**  
The "Found New Hardware Wizard" window is displayed.

**17 Select the radio button next to "Install the software automatically [Recommended]," then click [Next].**

**18 When installation is complete, a message indicating so appears. Click [Finish].**

**WDM MIDI driver initial settings**

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

**20 When installation is complete, a message indicating so appears. Click [Finish].**

**WDM Audio driver initial settings**

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

**22 When installation is complete, a message indicating so appears. Click [Finish].**  
The n8/n12 [COMP] indicator will flash sequentially, then will stop when the initial settings have been completed.

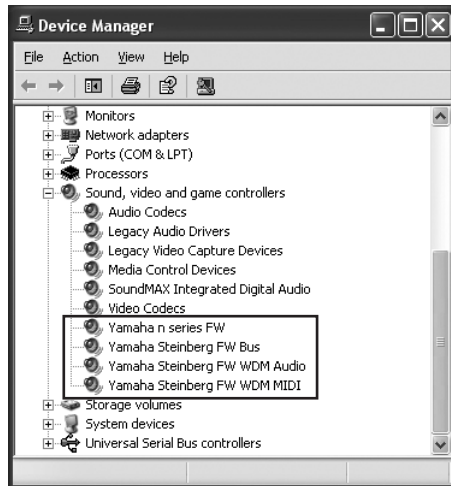
**NOTE**

- When a new IEEE1394 interface is installed to the computer or the other devices compatible with Yamaha Steinberg FW Driver is connected to the computer, the "Found New Hardware Wizard" window will appear. In that case, finish the wizard in the same way as described here.



## Confirming the installation

- 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 FW,” “Yamaha Steinberg FW Bus,” “Yamaha Steinberg FW WDM Audio” and “Yamaha Steinberg FW WDM MIDI” are listed.



## Uninstalling the Software

To uninstall TOOLS for n Version2, you must remove the following two software components:

- Yamaha Steinberg FW Driver
- n Extension

- 1 Make sure the POWER switch on the n8/n12 is set to OFF, exit from any open applications and close all open windows.
- 2 From the Start menu, select ([Settings] →) [Control Panel] → [Add or Remove Programs] to display the Add or Remove Programs panel.
- 3 Click “Change or Remove Programs” located in the upper left, then select “Yamaha Steinberg FW Driver,” “Yamaha n Extension” from the list in the right panel.
- 4 To uninstall the software, click [Change or Remove] / [Remove].  
Follow the instructions to remove the software.

## Installation (Windows Vista/7)

### Preparing to install

- 1 Make sure that the power to the n8/n12 is turned off.
- 2 Using an IEEE1394 cable, connect the n8/n12 directly to the computer (without using a hub), and disconnect all other IEEE1394 devices from the computer.
- 3 Start the computer and log on to the Administrator account.
- 4 Select [Start] → [Control Panel].
- 5 Click the "Hardware and Sound" → "Device Manager."

**NOTE**

- If the "User Account Control" window appears, click [Continue]. A dialog box appears.

- 6 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.
- 7 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.
- 8 Exit any open applications and close all open windows.
- 9 Insert the TOOLS for n Version2 CD-ROM into the CD-ROM drive of your computer.

### Software Installation

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

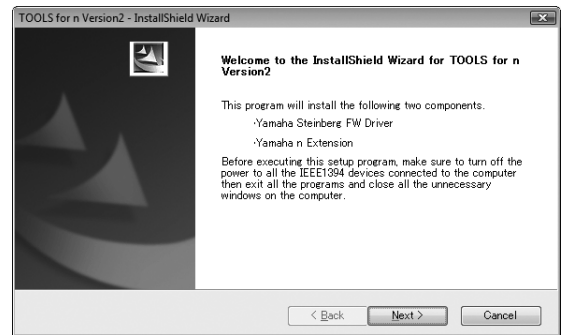
- Yamaha Steinberg FW Driver
- n Extension

**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 Open the CD-ROM then double-click the file "setup.exe."

A "Welcome to the InstallShield Wizard for TOOLS for n Version2" window appears.



**NOTE**

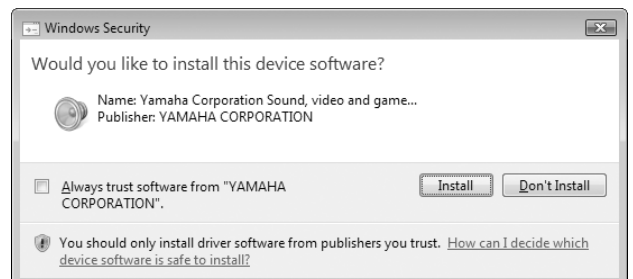
- If the "User Account Control" window appears, click [Continue]. A dialog box appears.

#### 11 Click [Next].

#### 12 Follow the on-screen instructions in the Setup window for Yamaha Steinberg FW Driver, n Extension appearing in order.

**NOTE**

- If the same version of each software component has already been installed in your computer, the installation window of the corresponding software will not appear.
- If the "Windows Security" window appears, confirm that the publisher is "YAMAHA CORPORATION," then click [Install].



- 13** When installation is complete, a message indicating so appears. If restarting of the computer is necessary following successful completion of the installation, 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. If restarting the computer is unnecessary, click [Finish] to exit the installation process.

#### 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.

### Initial settings of driver

After you've installed TOOLS for n Version2, perform the initial settings of the driver.

#### NOTE

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

### 14 Turn on the power to the n8/n12.

The n8/n12 [COMP] indicator will flash sequentially, then will stop when the initial settings have been completed.

#### NOTE

- If the n8/n12 [COMP] indicator does not light even if you wait for a while, restart the computer.
- If the “User Account Control” window appears when you install a new IEEE1394 interface to the computer, click [Continue].

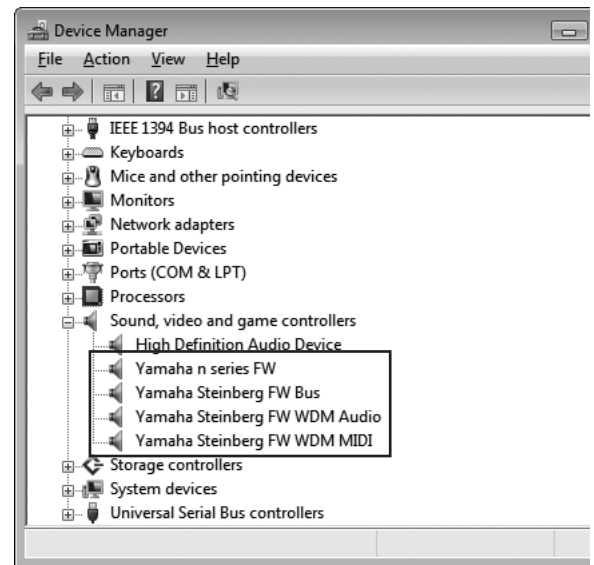
### Confirming the installation

- 1 Select [Control Panel] from the Start menu.
- 2 Click the "Hardware and Sound" → "Device Manager."

#### NOTE

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

- 3 Click on the [+] mark next to “Sound, Video and game controllers” and confirm that “Yamaha n series FW,” “Yamaha Steinberg FW Bus,” “Yamaha Steinberg FW WDM Audio” and “Yamaha Steinberg FW WDM MIDI” are listed.



### Uninstalling the Software

To uninstall TOOLS for n Version2, you must remove the following two software components:

- Yamaha Steinberg FW Driver
- n Extension

- 1 Make sure that the power to the n8/n12 is turned off. Exit any open applications and close all open windows.
- 2 From the Start menu, select [Control Panel] → [Uninstall a Program] to display the Uninstall or change a program panel.
- 3 Select “Yamaha Steinberg FW Driver,” “Yamaha n Extension” from the list.
- 4 To uninstall the software, click [Uninstall]/[Uninstall/Change].

If the “User Account Control” window appears, click [Continue]. A dialog box appears. Follow the instructions to remove the software.

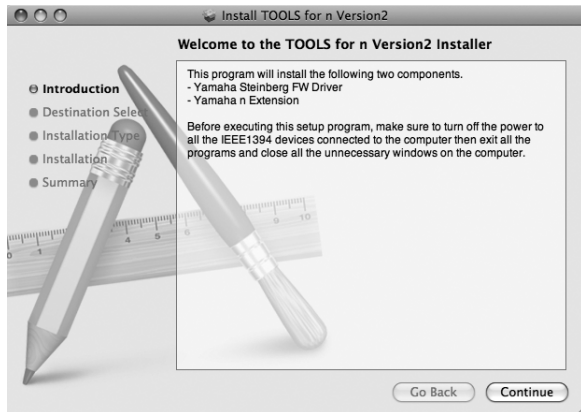
## Installation(Macintosh)

### Preparing to install

- 1** Make sure that the power to the n8/n12 is turned off.
- 2** Using an IEEE1394 (Firewire) cable, connect the n8/n12 directly to the computer (without using a hub), and disconnect all other IEEE1394 devices from the computer.
- 3** Start the computer and log in to the Administrator account.
- 4** Exit any open applications and close all open windows.
- 5** Insert the TOOLS for n Version2 CD-ROM into the CD-ROM drive of your computer.

### Software Installation

- 6** Open the CD-ROM, then double-click the file "TOOLS for n V2.mpkg."
- 7** A dialog box appears asking if you want to install the software. Click [Continue].  
The "Welcome to the TOOLS for n Version2 Installer" window appears.



- 8** Click [Continue].  
The "Select Destination" window appears.

#### NOTE

- Only the boot disk can be selected for the installer.
- If you are using Mac OS X 10.5/10.6, click [Continue] to call up the "Installation Type" window.

- 9** Click [Continue].  
The "Installation Type" window appears.

- 10** Click [Install].  
The "Authenticate" window appears.

#### NOTE

- If an older version of the Yamaha Steinberg FW Driver has already been installed in your computer, [Update] may appear instead of [Install].

- 11** Enter the Administrator name and the password, then click [OK].  
A message appears prompting you to restart the computer after the installation.

- 12** Click [Continue Installation].  
The "Install" window appears indicating the installation progress. When the installation is complete, the the "Finish Up" window or "Summary" window appears.

#### NOTE

- Installation cannot be canceled after clicking [Continue Installation].

- 13** Click [Restart] to restart the computer.

- 14** Turn on the power to the n8/n12.  
The n8/n12 [COMP] indicator will flash sequentially, and then will stop when the initial settings have been completed.

#### NOTE

- If the n8/n12 [COMP] indicator does not light even if you wait for a while, 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 6.

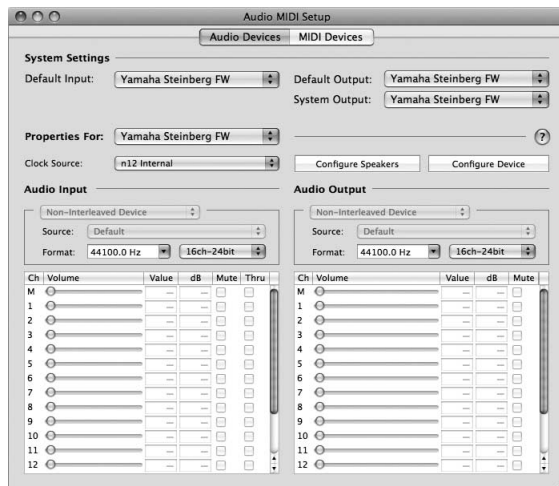
### Confirming the installation

#### Mac OS X 10.4/10.5

- 1** From the hard disk to which the OS is installed (usually Macintosh HD), click [Applications] → [Utilities], then double-click [Audio MIDI Setup].  
The "Audio MIDI Setup" window appears.
- 2** Click [Audio Devices], then select "Yamaha Steinberg FW" from the pull-down menu in [Properties For].  
The current audio settings are shown in the [Audio Input] and [Audio Output] fields.

#### NOTE

- By selecting "Yamaha Steinberg FW" for [Default Output] in System Settings, you can output audio signals of the audio player software (e.g., iTunes, etc.) from the n8/n12.



## Mac OS X 10.6

- 1 From the hard disk to which the OS is installed (usually Macintosh HD), click [Applications] → [Utilities], then double-click [Audio MIDI Setup].

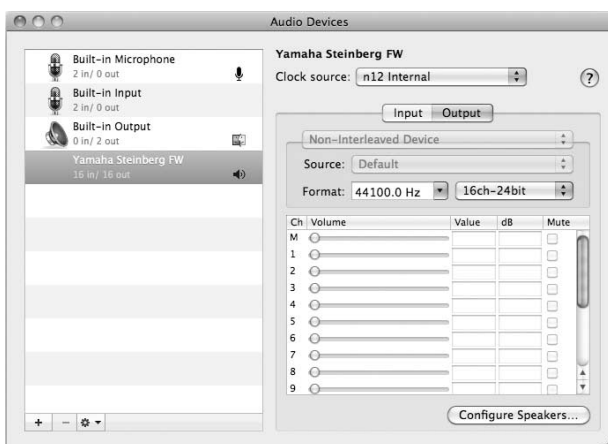
The “Audio Devices” window appears.

- 2 Select “Yamaha Steinberg FW” from the list of audio devices.

The current audio settings are shown in the right side of the window.

### NOTE

- By selecting “using this devices for sound output” in the Action menu at the left bottom of the window, you can output audio signals of the audio player software (e.g., iTunes, etc.) from the n8/n12.



## Uninstalling the Software

To uninstall TOOLS for n Version2, you must remove the following two software components:

- Yamaha Steinberg FW Driver
- n Extension

## Removing Yamaha Steinberg FW Driver

Remove the following folders and files from the boot disk (usually Macintosh HD).

```

/Applications/Yamaha/FWDriver/
    Yamaha Steinberg FW Control Panel.app
    YamahaFWCM.app
/Library/Application Support/Yamaha/FWDriver/HAL/
    YamahaFWHAL.bundle
/Library/Audio/MIDI Devices/Yamaha/Images/
    FW_10000D.tiff
    FW_10000E.tiff
    FW_110006.tiff
    FW_110007.tiff
    FW_110008.tiff
    FW_110009.tiff
/Library/Audio/MIDI Drivers/
    YamahaFWMIDI.plugin
/Library/LaunchAgents/
    com.yamaha.YamahaFWCM.plist
/Library/PreferencePanes/
    Yamaha Steinberg FW.prefPane
/Library/Preferences/
    com.yamaha.FWDriver.plist
/Library/Receipts/
    YamahaFWAudioDriver.pkg
    YamahaFWCM.pkg
    YamahaFWCP.pkg
    YamahaFWDriverplist.pkg
    YamahaFWEnabler.pkg
    YamahaFWHAL.pkg
    YamahaFWMIDIIcon.pkg
    YamahaFWMIDIPlugin.pkg
/System/Library/Extensions/
    YamahaFWAudioDriver.kext
/System/Library/Frameworks/
    YamahaFWEnabler.framework
/User/{Account name}/Library/Preference/
    com.yamaha.YamahaFWCM.plist
  
```

\* “[Account name]” indicates the account name when Yamaha Steinberg FW Driver is installed.

## Removing n Extension

Remove the following folders and files from the boot disk (usually Macintosh HD).

```

/Library/Application Support/Steinberg/Components/
    yamaha_n.bundle
    yamaha_n_u.bundle

/Library/Application Support/Steinberg/Project Template/
    Yamaha n8 multi channel recording.cpr
    Yamaha n8 stereo channel recording.cpr
    Yamaha n12 multi channel recording (5.1).cpr
    Yamaha n12 multi channel recording.cpr
    Yamaha n12 stereo channel recording (5.1).cpr
    Yamaha n12 stereo channel recording.cpr
  
```

This completes the uninstallation of TOOLS for n Version2.

# Changing settings after installation

This Control Panel window lets you set basic n8/n12 parameters when using Yamaha Steinberg FW Driver. The Control Panel consists of the General window, n8/n12 window and About window which lets you set the parameters such as sampling rate and WORD CLOCK Source. The settings here are immediately applied to the n8/n12.

## How to call up the Control Panel window

### Windows:

- From the Device field on the Device Setup window (called up via [Device] → [Device Setup...]) of Cubase, select “Yamaha Steinberg FW ASIO” then select “Control Panel.”
- Double-click the driver icon indicated on the Taskbar Notification area, or right-click the icon, then select “Control Panel.”



Driver icon

- Select [Start] → [Control Panel] → [Hardware and Sound] → [Yamaha Steinberg FW Driver].

### Macintosh:

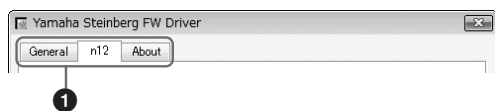
- Select [System Preference...] → [Yamaha Steinberg FW]
- (Mac OS X 10.4/10.5) Select the Application folder → Utility folder → Audio MIDI Setup → Set “Properties” to “Yamaha Steinberg FW”, then click [Configure Device]
- (Mac OS X 10.6) Select Application folder → Utility folder → Audio MIDI Setup → Select “Yamaha Steinberg FW” in the “Audio Devices” window. Click Action menu at the left bottom of the window, then select [Configure device...].
- When using Cubase series Version 4.5 or later, from the Device field on the Device Setup window (called up via [Device] → [Device Setup...]) of Cubase, select “Yamaha Steinberg FW” then click “Control Panel” → click [Open Config App] button in the “CoreAudio Device Settings” window.

### NOTE

- The explanations below use Windows as an example, but the basic operation is the same for both Windows and Macintosh.

## Parameter functions

### Overall



#### 1 Tab

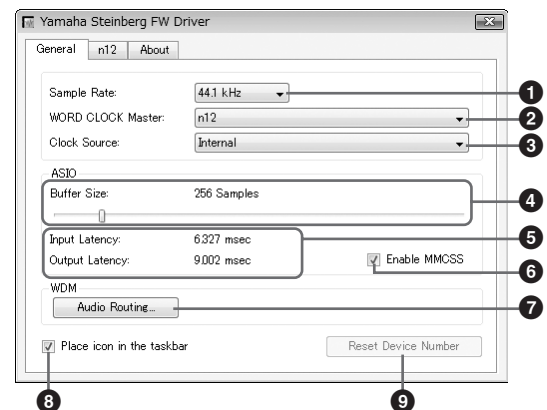
Calls up the corresponding window.

To close the Control Panel window, click the “X” at the top right corner of the window on Windows, or click the “X” at the top left corner of the window on Macintosh.

### NOTE

- When two or three devices compatible with Yamaha Steinberg FW Driver are connected in daisy-chain fashion, the corresponding tabs are indicated for each device. When the same two or three devices are connected, the corresponding tabs are indicated with numbers assigned to each device. For details, refer to page 16.

### General window



#### 1 Sample Rate

Specifies the sample rate of the n8/n12 from 44.1 kHz, 48 kHz, 88.2 kHz and 96 kHz.

#### 2 WORD CLOCK Master

Selects the master device of the Word Clock. This parameter is available only when two or three devices compatible with Yamaha Steinberg FW Driver are connected in daisy-chain fashion.

#### 3 Clock Source

Selects the word clock source of the device selected in the WORD CLOCK Master. For the n8/n12, only “Internal” can be selected.

**4 ASIO Buffer Size (Windows only)**

Determines the buffer size for the ASIO driver.

**5 Input Latency/Output Latency (Windows only)**

Indicates the delay time for the audio input/output in millisecond units. Audio latency differs depending on the value of the ASIO Buffer Size. The lower the value of the ASIO Buffer Size, the lower the value of Audio Latency.

**6 Enable MMCSS (Windows Vista/7 only)**

Determines whether the MMCSS (Multimedia Class Scheduler Service) is active or not on Windows Vista/7. If you place a checkmark in the checkbox, MMCSS will be enabled and driver performance will be improved.

**7 Audio Routing (Windows only)**

Click this to call up the WDM Audio Routing window. From this window, you can determine the input/output jack used for the WDM Audio driver. In each section, the upper box selects the device (only when two or three devices compatible with Yamaha Steinberg FW Driver are connected in daisy-chain fashion) and the lower box selects the input or output jacks.

**NOTE**

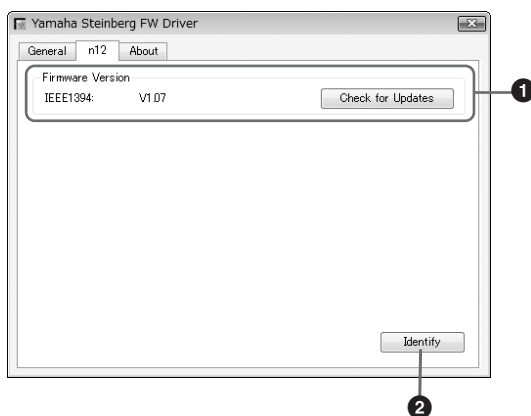
- The device name of the WDM Audio driver is "Yamaha Steinberg FW WDM Audio." This parameter specifies which jacks accept the input signals sent to a computer and to which jacks the output signals from the computer are sent. The input channels are stereo channels. The output channels are six consecutive channels from the stereo channels set in the output port setting.
- When using the Surround Monitoring, set "Monitor L/R" for the output port setting.

**8 Place Icon In the taskbar (Windows only)**

When this checkmark is entered, the driver icon is indicated on the Taskbar Notification area.

**9 Reset Device Number**

Clicking this resets the indication order of the devices on the DAW software. For details, refer to page 16. This operation is only effective when two or more devices compatible with Yamaha Steinberg FW Driver are connected in daisy-chain fashion.

**n8/n12 window****1 Firmware Version**

Indicates the firmware version of the IEEE1394. Clicking [Check for Updates] will call up the website from which you can download the latest firmware program.

**2 Identify**

Clicking this will cause the CUBASE READY indicator on the currently controlled n8/n12 to flash. This operation lets you confirm which device is actually controlled from a computer when two or more devices are daisy-chain connected.

**About window**

This window indicates the version of the Yamaha Steinberg FW Driver.

**Word Clock**

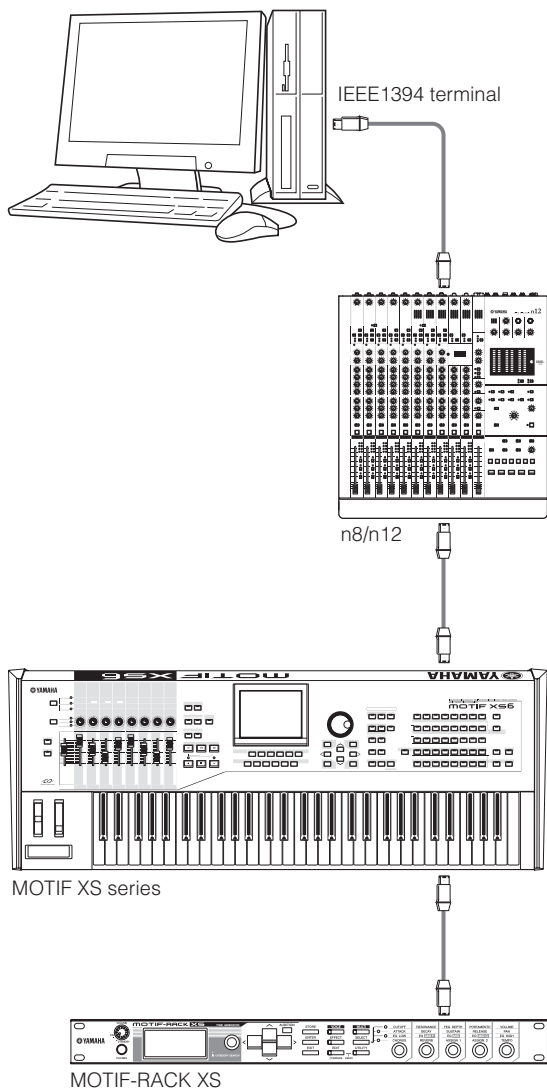
In a typical digital audio system, the signal referred to as "word clock" is used to synchronize the process timing of audio signals between multiple devices. If the word clock is not transferred correctly, click noise may occur or recording may not be successful. Normally, one device transmits a reference word clock signal, and the other devices receive this word clock signal and synchronize to it. The transmitting device is called the "word clock master" and the receiving devices are called "word clock slaves". Some devices compatible with Yamaha Steinberg FW Driver can function as the word clock slave. Select the word clock source of the word clock signal in the Clock Source parameter.

**Setting the audio driver buffer size**

Noise produced when using applications such as DAW software can affect audio recording and/or playback. In most cases, you can solve these problems by adjusting the audio buffer size (Audio Buffer Size). The buffer size can usually be adjusted via the audio driver setup window in the application. (When using ASIO compatible software for Windows, the buffer size can be adjusted in the ASIO Buffer Size parameter via the Control Panel of the Yamaha Steinberg FW Driver.) While the higher buffer size reduces load to the computer CPU but produces latency (time lag) during recording/playback, the smaller buffer size may result in noise or the sound cutting off. Make sure to set the buffer size to an appropriate value depending on the performance of your computer, the number of audio/MIDI tracks being recorded/played back on the DAW software, the number of plug-in software, and so on.

# Using multiple devices compatible with Yamaha Steinberg FW Driver

Up to three devices compatible with Yamaha Steinberg FW Driver can be used simultaneously. By connecting them in daisy-chain fashion to a computer via IEEE1394 cables, you can upgrade your music production system simply by adding other devices.

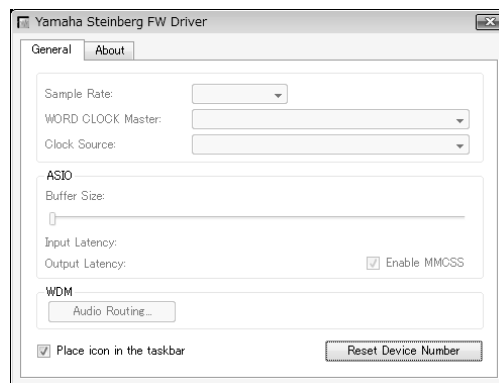


## NOTE

- Keep in mind that up to two devices can be connected when the Sample Rate is set to 88.2 kHz or 96 kHz. Even if you connect an additional third device, the last recognized device (other than the device specified as the Word Clock master) connected to the computer will not be available.
- Even if multiple IEEE1394 interfaces are installed on the computer, make sure to daisy-chain connect all devices to the jacks of a single interface. This is necessary since the computer can only recognize devices connected to a specific, single IEEE1394 interface jack, and cannot recognize devices connected to different jacks of different IEEE1394 interfaces even though they are installed on the same computer.

When connecting two or three devices compatible with Yamaha Steinberg FW Driver to a computer, the order of devices displayed in the DAW (Cubase etc.) will be maintained even if the power is turned off. The order of devices will be reproduced when turning on the power of the connected devices. When the same two or three devices are connected, a unique number (indicated at the end of the device name) is automatically assigned to each of the devices, in the order with which the devices are connected. The number once assigned to a device will be maintained even if it is disconnected or the power is turned off. If you want to reset the order of devices displayed in DAW or the number assignment, follow the instructions below.

- 1 Turn off the power of all the connected devices compatible with Yamaha Steinberg FW Driver then disconnect all the IEEE1394 cables.**
- 2 Call up the Control Panel of the Yamaha FW Driver window then click the [General] tab.**



- 3 Click the [Reset Device Number] button at the bottom right corner of this window.**

## NOTE

- The [Reset Device Number] button is available only when all the connected devices are turned off. When any device is turned on, this button is dimmed and cannot be clicked.

- 4 Daisy-chain connect two or three devices compatible with Yamaha Steinberg FW Driver to the computer in the desired order.**

- 5 Turn on the power of the first device connected directly to the computer.**

Wait until the tab corresponding to the first device appears on the Control Panel of the Yamaha FW Driver window, indicating that the computer has actually recognized the first device.

- 6 Turn on the power of the second device that is daisy-chain connected to the first device.**

The tab corresponding to the second device appears on the Control Panel of the Yamaha FW Driver window, indicating that the computer has recognized the second device. If a third device has been connected to this second device, turn the power on in the same manner. As necessary, set the Word Clock Master to the desired device.



## Hints for using audio data (Windows)

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 7

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

#### 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.

#### 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.”

### ● Set Processor Scheduling to “Background services”

#### Windows 7

Select [Control Panel] → [System and Security] → [System] → [Advanced system settings] in the upper left of the window → [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.

#### 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.

### ● Set the Visual Effects options to “best performance”

#### Windows 7

Select [Control Panel] → [System and Security] → [System] → [Advanced system settings] in the upper left of the window → [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.”

#### 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.”

### ● Set Remote Assistance to off

#### Windows 7

Select [Control Panel] → [System and Security] → [System] → [Remote settings] in the upper left of the window → [Remote] and uncheck “Allow Remote Assistance connections....”

#### 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....”

#### Windows XP

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

### ● Enable the Classic Start menu

#### Windows Vista/XP

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 7

Select [Control Panel] → [Ease of Access] → [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.

#### 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.

#### Windows XP

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

### ● Disable SpeedStep™

Refer to “Troubleshooting” in the n8/n12 Owner’s Manual.

### ● Disconnect your computer from the Internet

Select [Control Panel] → [Network and Sharing Center]/[Manage network connections] and right-click “Disable.”

# Troubleshooting

■ **If an error message appears**

Refer to “Error Messages” in the n8/n12 Owner’s Manual.

■ **No sound, incorrect sound**

Refer to “Troubleshooting” in the n8/n12 Owner’s Manual.

English

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For proper treatment, recovery and recycling of old products, please take them to applicable collection points, in accordance with your national legislation and the Directives 2002/96/EC.

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**[For business users in the European Union]**

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**[Information on Disposal in other Countries outside the European Union]**

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