



Yamaha Steinberg FW Driver Installation Guide

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What is Yamaha Steinberg FW Driver?

Yamaha Steinberg FW Driver enables audio/MIDI signals to be transferred between a computer and devices compatible with the Yamaha Steinberg FW Driver via IEEE1394 cables.

Devices compatible with the Yamaha Steinberg FW Driver include the following. (September 2013)

- Steinberg MR816 CSX/MR816 X
- Yamaha FW16E/mLAN16E/n8/n12

NOTE

- The MOTIF XS8 is equipped with the mLAN16E2 as standard.
- Yamaha Steinberg FW Driver requires following software components when using with the FW16E/mLAN16E2/n8/n12.
 - IEEE1394 Firmware V1.07 or later
 - *V1.08 or later (When using mLAN16E2 on the MOTIF XF)
 - *V1.08 or later has already been applied to the FW16E. You do not need to update the IEEE1394 Firmware.
 - MOTIF XS V1.10 or later (When using MOTIF XS)
 - n8/n12 V1.03 or later (When using n8/n12)
 - Sweet Spot Data Manager V2.0.0 (When using n8/n12)

You can download the latest version of the software at the following website

<http://download.yamaha.com/>

- Regarding the latest information about devices compatible with the Yamaha Steinberg FW Driver, refer to the "Downloads" page for Yamaha Steinberg FW Driver.

How This Guide is Organized

Installing/Uninstalling the software (page 4)

Explains how to install/uninstall Yamaha Steinberg FW Driver for the first time.

Selecting the Yamaha Steinberg FW Driver (page 7)

Explains how to select devices compatible with the Yamaha Steinberg FW Driver in DAW software.

Changing settings after installing (page 7)

Explains how to determine the general settings for devices compatible with the Yamaha Steinberg FW Driver by using the Control Panel Window of the Yamaha Steinberg FW Driver.

Using multiple devices compatible with Yamaha Steinberg FW Driver (page 10)

Explains how to set up the driver when connecting multiple devices compatible with the Yamaha Steinberg FW Driver.

Hints for using audio data (Windows) (page 11)

Explains how to set up the configuration of Windows to use the audio functions correctly.

Troubleshooting (page 12)

Explains how to solve problems that you may encounter while you are using devices compatible with the Yamaha Steinberg FW Driver along with your computer.

Error Messages (page 14).

Installing/Uninstalling the Software

This software enables you to connect devices compatible with the Yamaha Steinberg FW Driver to a computer and transfer audio/MIDI signals via an IEEE1394 (FireWire) cable.

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.**

NOTE

- If you have already installed Yamaha Steinberg FW driver in your computer, you can update the driver software with the same procedure of installation.
- For explanations of the error messages, see [page 14](#).

Installation (Windows)

Preparing to Install

- 1 Make sure that the power to the device compatible with the Yamaha Steinberg FW Driver is turned off.**
- 2 Using an IEEE1394 cable, connect the device compatible with the Yamaha Steinberg FW Driver 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 [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.**

Software Installation

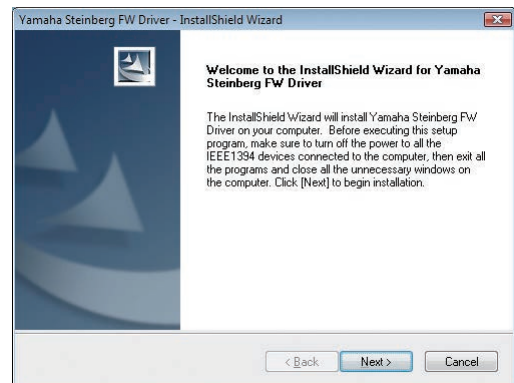
The installer will install the Yamaha Steinberg FW Driver to your computer.

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.

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

A “Welcome to the InstallShield Wizard for Yamaha Steinberg FW Driver” window appears.



NOTE

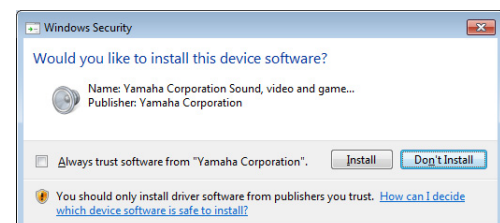
- If the “User Account Control” window appears, click [Continue]. A dialog box appears.

- 10 Click [Next].**

The installation starts.

NOTE

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



- 1 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 9.

Initial Settings of Driver

After you’ve installed Yamaha Steinberg FW Driver, perform the initial settings of the driver.

NOTE

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

- 12 Turn on the power to the device compatible with the Yamaha Steinberg FW Driver.

Initial setup of Yamaha Steinberg FW Driver is automatically started.

NOTE

- If the “User Account Control” window appears when you install a new IEEE1394 interface to the computer, click [Continue].

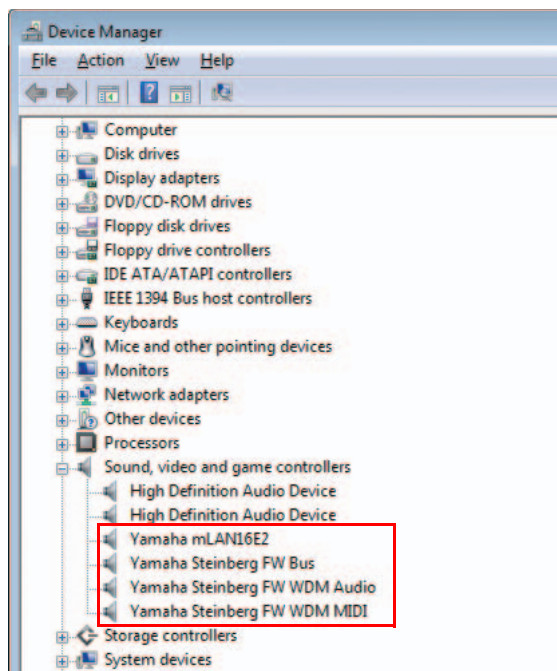
Confirming the Installation

- 1 Select [Control Panel].
- 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 the name of the device compatible with the Yamaha Steinberg FW Driver, “Yamaha Steinberg FW Bus,” “Yamaha Steinberg FW WDM Audio” and “Yamaha Steinberg FW WDM MIDI” are listed.



NOTE

- The available devices compatible with the Yamaha Steinberg FW Driver are shown as follows;

device	shown name
MR816 CSX/MR816 X	Steinberg MR816 Series
n8/n12	Yamaha n series FW
mLAN16E2	Yamaha mLAN16E2
FW16E	Yamaha FW16E

- “Yamaha Steinberg FW WDM MIDI” appears when connecting a device compatible with the Yamaha Steinberg FW Driver which has MIDI terminals.

Uninstalling the Software

Follow the instruction below to uninstall the Yamaha Steinberg FW Driver.

- 1 Make sure that the power to the device compatible with the Yamaha Steinberg FW Driver is turned off. Exit any open applications and close all open windows.
- 2 Select [Control Panel] → [Uninstall a Program] to display the Uninstall or change a program panel.
- 3 Select “Yamaha Steinberg FW Driver” from the list.
- 4 To uninstall the software, click [Uninstall/Change]. If the “User Account Control” window appears, click [Continue]. A dialog box appears. Follow the instructions to remove the software.

Installation (Mac)

Preparing to Install

- 1 Make sure that the power to the device compatible with the Yamaha Steinberg FW Driver is turned off.
- 2 Using an IEEE1394 (FireWire) cable, connect the device compatible with the Yamaha Steinberg FW Driver 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.

Software Installation

- 5 After the downloaded compressed file is properly extracted, double-click the file “Yamaha Steinberg FW Driver V***.pkg.”
*** represents the version number.
 - 6 The “Welcome to the Yamaha Steinberg FW Driver Installer” window appears.
 - 7 Click [Continue].
The “Installation Type” window appears.
 - 8 Click [Install].
An authentication window appears.
 - 9 Enter the Administrator name and the password, then click [OK] or [Install Software].
A message appears prompting you to restart the computer after the installation.
 - 10 Click [Continue Installation].
The “Install” window appears indicating the installation progress. When the installation is complete, the “summary” window appears.
- NOTE**
 - Installation cannot be canceled after clicking [Continue Installation].
- 11 Click [Restart] to restart the computer.
 - 12 Turn on the power to the device compatible with the Yamaha Steinberg FW Driver.

When canceling the installation

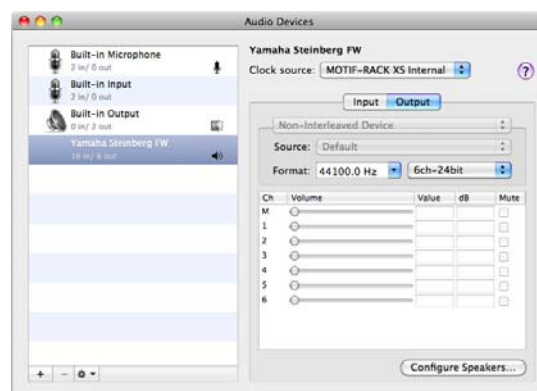
If you've cancelled an installation before it is complete, the software may not have been installed properly. To install the software properly, resume the procedure from Step 5.

Confirming the Installation

- 1 From the hard disk to which the OS is installed, 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 device compatible with the Yamaha Steinberg FW Driver.



Uninstalling the Software

- 1 Disconnect all IEEE1394 devices from the computer.
- 2 Start the computer and log in to the Administrator account.
Exit any open applications and close all open windows.
- 3 After the downloaded compressed file is properly extracted, double-click on “Uninstall Yamaha Steinberg FW Driver.”
- 4 Click [Run] when the “Welcome to the Yamaha Steinberg FW Driver uninstaller.” window appears.
After that, follow the on-screen instructions to uninstall the software.
- 5 After completing the uninstallation, an “Uninstallation completed” window appears. Click [Restart].
- 6 When the message prompting you to restart your computer appears, click [Restart].

Uninstallation of the Yamaha Steinberg FW Driver is now complete.

Selecting the Yamaha Steinberg FW Driver

When using devices compatible with the Yamaha Steinberg FW Driver with DAW software, set up the Audio/MIDI driver settings of the DAW software as follows.

Audio Driver

Windows WDM Driver: "Yamaha Steinberg FW WDM Audio"

Windows ASIO Driver: "Yamaha Steinberg FW ASIO"

Mac: "Yamaha Steinberg FW"

MIDI Driver

The port name of MIDI driver is shown as "xxx(Device name) xxx (Port name)."

For details on the difference in each port's features for devices, refer to the owner's manual of your particular device.

Changing Settings After Installation

This Control Panel window lets you set basic devices compatible with the Yamaha Steinberg FW Driver parameters when using Yamaha Steinberg FW Driver. The Control Panel consists of the General window, device compatible with the Yamaha Steinberg FW Driver 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 device compatible with the Yamaha Steinberg FW Driver.

How to call up the Control Panel window

Windows:

- Double-click the driver icon indicated on the Taskbar Notification area, or right-click the icon, then select "Control Panel."
- Select [Control Panel] → [Hardware and Sound] → [Yamaha Steinberg FW Driver].
- When using Cubase series, 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." (When using ASIO compatible software, you can open the control panel via to open the ASIO control panel of the DAW software. For details, refer to the owner's manual of the DAW software.)

Driver icon



Mac:

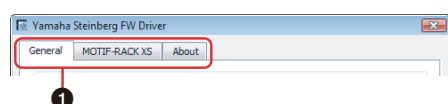
- Select [System Preference...] → [Yamaha Steinberg FW]
- Select Application folder → Utility folder → Audio MIDI Setup → Select "Yamaha Steinberg FW" in the "Audio Devices" window. Click Action menu at the left bottom of the window, then select [Configure device...].
- When using Cubase series, from 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 Mac.

Parameter functions

Overall



1 Tab

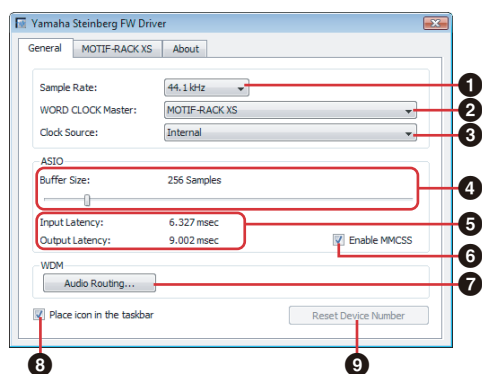
Calls up the corresponding window.

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 Mac.

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 10](#).

General window



1 Sample Rate

Specifies the sample rate of the device compatible with the Yamaha Steinberg FW Driver from 44.1 kHz, 48 kHz, 88.2 kHz and 96 kHz.

NOTE

- The internal sample rate of the MOTIF XF/XS series instrument and MOTIF-RACK XS tone generator is set to only 44.1 kHz no matter what setting is made here. The setting here affects to the audio signal transmission/reception between the FW16E/mLAN16E2 and the computer.

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 current device compatible with the Yamaha Steinberg FW Driver.

NOTE

- For the n8/n12/mLAN16E2/FW16E, you can select "Internal" only.
For the other devices compatible with the Yamaha Steinberg FW Driver, refer to the owner's manual of the device.

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 only)

Determines whether the MMCSS (Multimedia Class Scheduler Service) is active or not. 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

- 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.

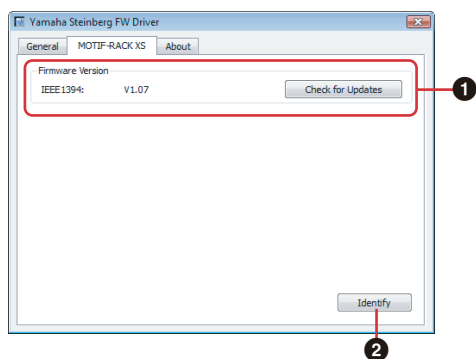
8 Place Icon In the taskbar (Windows only)

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 10](#). This operation is only effective when two or more devices compatible with Yamaha Steinberg FW Driver are connected in daisy-chain fashion.

Compatible Device 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.

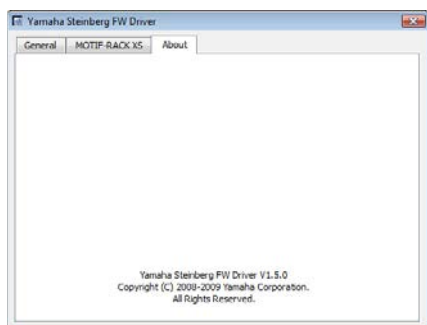
2 Identify

Clicking this will cause the response by the currently controlled device compatible with the Yamaha Steinberg FW Driver. The Cubase Ready indicator on the currently controlled n8/n12 will flash. A popup display on the currently controlled MOTIF XF/XS series or MOTIF-RACK XS will appear. This operation lets you confirm which device is actually controlled from a computer when two or more devices are daisy-chain connected.

NOTE

- For other devices compatible with the Yamaha Steinberg FW Driver, refer to the owner's manual of the device.

About window



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

Word Clock

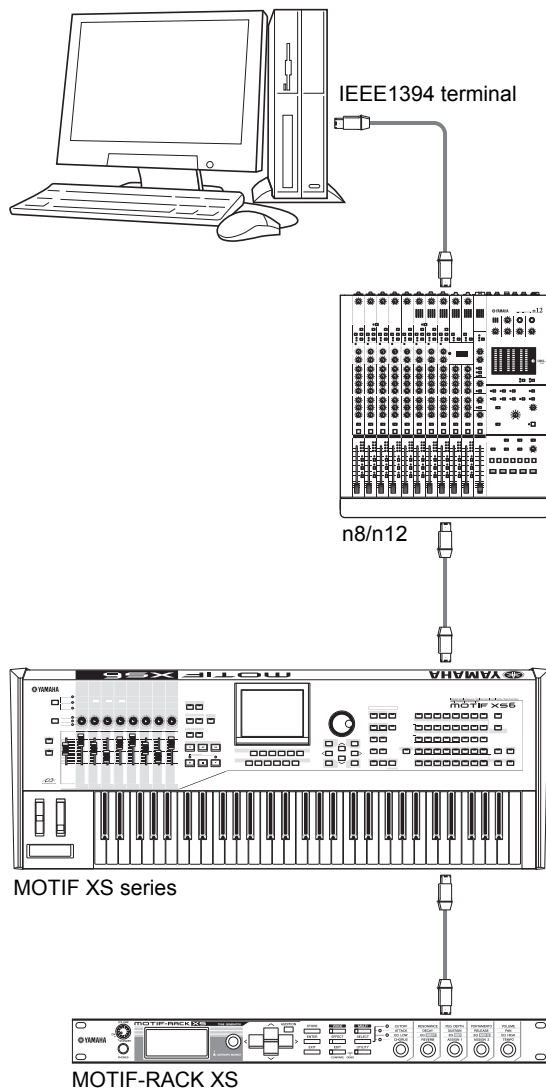
In a typical digital audio system, the signal referred to as “word clock” is used to synchronize the process timing of audio signals between multiple devices. If the word clock is not transferred correctly, click noise may occur or recording may not be successful. Normally, one device transmits a reference 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. 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.

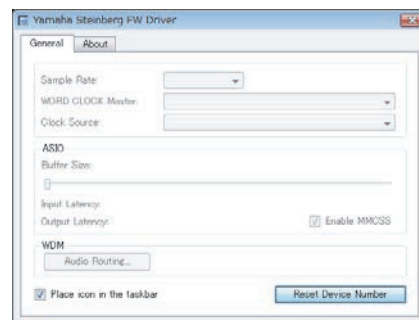


NOTE

- 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.
- Up to two MOTIF XF/XS series and MOTIF-RACK XS instruments can be connected regardless of the Sample Rate settings.
- 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 Steinberg 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 Steinberg 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 Steinberg 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

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.

Set Processor Scheduling to "Background services"

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.

Set the Visual Effects options to "best performance"

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."

Set Remote Assistance to off

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

Disable transition effects

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.

Disable SpeedStep™

Refer to "Troubleshooting."

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 the Error Message List on [page 14](#).

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

Settings on the device compatible with Yamaha Steinberg FW Driver and connections

- The connection cable from the external device may be broken.
- Make sure that the speakers or headphones are connected correctly.
- Make sure that the power to your amplifier and other external devices is turned on.
- Make sure that the volume between monitor speakers is well-balanced.
- Is the Word Clock setting correct for both the device compatible with the Yamaha Steinberg FW Driver and the external device(s)?

Settings on a computer

- Make sure to set the volume settings within your application to appropriate levels.
- Confirm whether or not the settings in the Yamaha Steinberg FW Driver are appropriate. For details, refer to "[Audio and MIDI signals fail to transfer between computer and the devices compatible with the Yamaha Steinberg FW Driver](#)."

■ The sound is distorted.

Settings on the devices compatible with the Yamaha Steinberg FW Driver and connections

- The connection cable from the external device may be broken.
- Make sure that audio was recorded at an appropriate level.
- The EQ gain may be set excessively high. Set this control to an appropriate level.
- Confirm whether or not the Word Clock settings for both the devices compatible with the Yamaha Steinberg FW Driver and the external device(s) are correct.

Settings on a computer

- Make sure that audio was recorded at an appropriate level.

■ Noise is generated.

Settings on the devices compatible with the Yamaha Steinberg FW Driver and connections

- There may be a noise-inducing device (such as a device containing a power inverter, etc.) near the cables. Move all cables away from any possible sources of noise.
- Confirm whether or not the Word Clock settings on the devices compatible with the Yamaha Steinberg FW Driver and the connected devices are correct.

Connection with a computer

- The IEEE1394 cable may be damaged. Cables that do not satisfy IEEE1394 (S400) standards may cause noise.
- There may be a noise-inducing device (such as a device containing a power inverter, etc.) near the IEEE1394 cables. Move all cables away from any possible sources of noise.
- Make sure that the appropriate number of devices is connected to the computer. Connection of too many devices may cause noise, depending on the capacity of the computer.

Settings on a computer

- Make sure that your computer satisfies the system requirements.
- Make sure that the latency setting of the Yamaha Steinberg FW Driver is appropriate.

- 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.
- 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 the devices compatible with the Yamaha Steinberg FW Driver (Yamaha Steinberg FW Driver) with the computer. If such software is running, driver operation may become unstable and create noise. If you do not plan to use the Yamaha Steinberg FW Driver, you can turn these applications on again.
- (For Windows) Mobile computers with Intel EIST™ (CPU SpeedStep™) technology is applied for some CPU's (for notebook PC). If you are using the devices compatible with the Yamaha Steinberg FW Driver (Yamaha Steinberg FW Driver) along with such a computer, disable the EIST™ (CPUSpeedStep™) technology function. Most computers allow you to disable/enable this in the BIOS. Please refer to the PC's operating manual, or consult the PC manufacturer.
- (For Windows) Some network adaptors can cause noise. In such a case, use the Device Manager to disable the suspected network adaptor to remove the 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.

Connection with a computer

- Make sure that the appropriate number of devices is connected to the computer. Try reducing the number of devices connected to the computer.

Settings on a computer

- Make sure that your computer satisfies the system requirements.
- Try increasing the latency value of the Yamaha Steinberg FW Driver.
- (For Windows) Refer to "Hints for Using Audio Data (Windows)" on [page 11](#).

■ Incorrect pitch.

Settings on the devices compatible with the Yamaha Steinberg FW Driver and connections

- Confirm whether or not the master device of the word clock works in a stable way.
- Make sure to set the Sample Rate of the devices compatible with the Yamaha Steinberg FW Driver to the same value as that of the synchronized external audio device.

■ The device name cannot be recognized from the DAW software.

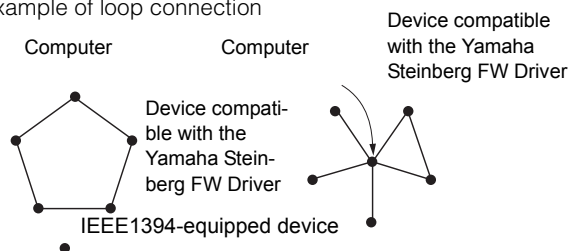
■ Audio and MIDI signals fail to transfer between computer and the devices compatible with the Yamaha Steinberg FW Driver.

Connection with a computer

- Make sure that the IEEE1394 cable is connected properly, and that the power to the devices compatible with the Yamaha Steinberg FW Driver 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



- Confirm whether or not four or more devices compatible with the Yamaha Steinberg FW Driver are connected. Up to three devices compatible with the Yamaha Steinberg FW Driver can be used simultaneously when the Sample Rate is set to 44.1 kHz/48 kHz. Up to two devices can be connected when the Sample Rate is set to 88.2 kHz or 96 kHz. In this case, make sure to turn the power of the unused devices to off, or disconnect the IEEE1394 cable from the computer.
- Confirm whether or not other IEEE1394 devices are connected to the computer. The limit of the IEEE1394 BUS bandwidth may have been exceeded. Make sure to turn the power of the unused devices to off, or disconnect the IEEE1394 cable from the computer.
- If any IEEE1394 devices which are not compatible with Yamaha Steinberg FW Driver are connected directly to a computer, disconnect them from the computer and make sure to connect only a device which is compatible with the Yamaha Steinberg FW Driver.
- There may be multiple IEEE1394 interfaces installed on the computer and each of the multiple IEEE1394 devices may be connected to different interfaces. When using multiple devices compatible with the Yamaha Steinberg FW Driver and connecting them to the computer peer-to-peer individually (i.e., star-connection), make sure to connect them all to the jacks of a single interface.

Settings on a computer

- Confirm whether or not "Yamaha Steinberg FW Driver" has been installed correctly.
- Restart the computer.
- (Mac) If the new IEEE1394 interface (PC card, etc.) is connected to the computer (with the power turned on), restart the computer. The IEEE1394 device compatible with the Yamaha Steinberg FW Driver will be recognized by the computer after restarting.

■ Unable to transfer MIDI data or Program Changes. (When using a device which is compatible with the Yamaha Steinberg FW Driver and features MIDI ports)

Settings on the device, external device and computer

- Confirm whether or not the appropriate MIDI port is selected in the application software (DAW, etc.).
- Make sure the transmission and receive channels match between both the source device and destination device including the DAW software.
- Confirm whether or not the MIDI settings have been properly made in the connected devices including the DAW.
- Confirm whether the power of all connected devices has been turned on or not.

■ Cannot use other connected IEEE1394 devices correctly.

- Disconnect the IEEE1394 device compatible with the Yamaha Steinberg FW Driver from the computer.

NOTE

- For details of the issues, also refer to the "Troubleshooting" section in the owner's manual of the device compatible with the Yamaha Steinberg FW Driver.

Error Messages

Error message	Cause	Solution
Failed to initialize.	Initialization of Yamaha Steinberg FW Driver has failed.	Restart the computer.
(Software name) (Version) is installed. Yamaha Steinberg FW Driver cannot work with this version. Please update it to V1.6.3 or later.	(Windows only) The version of n Driver, AI Driver and mLAN Driver/mLAN Tools installed to your computer may not be compatible with the Yamaha Steinberg FW Driver.	Uninstall n Driver, AI Driver or mLAN Driver/ mLAN Tools.
Failed to open Control Panel.	The Yamaha Steinberg FW Driver does not work properly.	Try the following operations. · Restart the computer. · Uninstall then install Yamaha Steinberg FW Driver
Failed to change driver setting due to another processing.	The settings on the Control Panel cannot be accepted because another program is now changing the settings of the Yamaha Steinberg FW Driver.	Perform the settings again after a while.
Failed to change driver setting.	Failed due to a cause other than the above.	· Disconnect the IEEE1394 cable from the device compatible with the Yamaha Steinberg FW Driver then connect again or turn off the power to that device then turn on the power again. · Restart the computer.
	Insufficient memory space.	Exit all unnecessary applications and uninstall the unnecessary drivers.