YAMAHA
Network-MIDI Driver Installation Guide

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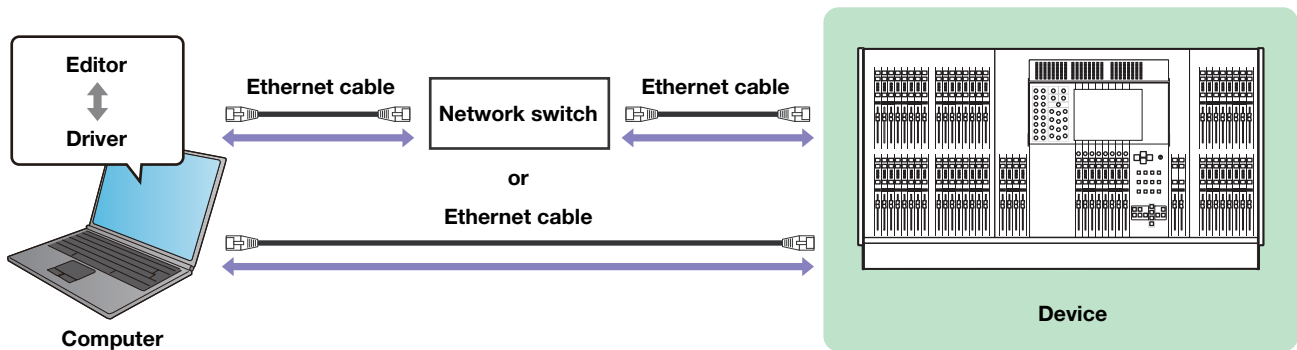
Network-MIDI Driver

Network-MIDI Driver is software for Mac that transfers MIDI data back and forth between your computer and your Yamaha device via Ethernet cable.
To operate your device from your computer via Ethernet, you'll need to install the Network-MIDI Driver software.

Connection of computer and device

Connect the computer to device by using an Ethernet cable via a network switch. You can connect the computer to device directly, use an Ethernet cable.

NOTE When you connect the computer to the M7CL directly, use a crossover cable.

Minimum System Requirements

Network-MIDI Driver applies to the system requirements of Editor. Refer to the Editor's Installation Guide for details.

Installation

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

Exit any open applications and close all open windows.

2 **After the downloaded compressed file is properly extracted, double-click the file "Yamaha Network-MIDI Driver V***.pkg."**

*** represents the version number.
The "Welcome to the Yamaha Network-MIDI Driver Installer" window appears.

3 **Click [Continue].**

The "Installation Type" window appears.

4 **Click [Install].**

The "Authenticate" window appears.

5 **Enter the Administrator name and the password, then click [Install Software] or [OK].**

The "Installation" window appears indicating the installation progress. When the installation is complete, the "Summary" window appears.

6 **Click [Close].**

The Network-MIDI Driver has been installed.

Uninstallation

Follow the steps below to uninstall the Yamaha Network-MIDI Driver.

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

Exit any open applications and close all open windows.

2 **After the downloaded compressed file is properly extracted, double-click on "Uninstall Yamaha Network-MIDI Driver."**

3 **Click [Run] when the "Welcome to the Yamaha Network-MIDI Driver uninstaller" window appears.**

After that, follow the on-screen instructions to uninstall the software.

4 **After completing the uninstallation, an "Uninstallation completed" window appears. Click [Close].**

Setup

1 **Log into Mac with Administrator privileges.**

> **♪ NOTE** In order to use the Network-MIDI Driver, the computer and device must be properly connected and configured. For details on connections, refer to "Connection of computer and device". For details on configuration, refer to "TCP/IP Settings" and "Troubleshooting (FAQ)".

2 **Click [System Preferences] icon on Dock.**

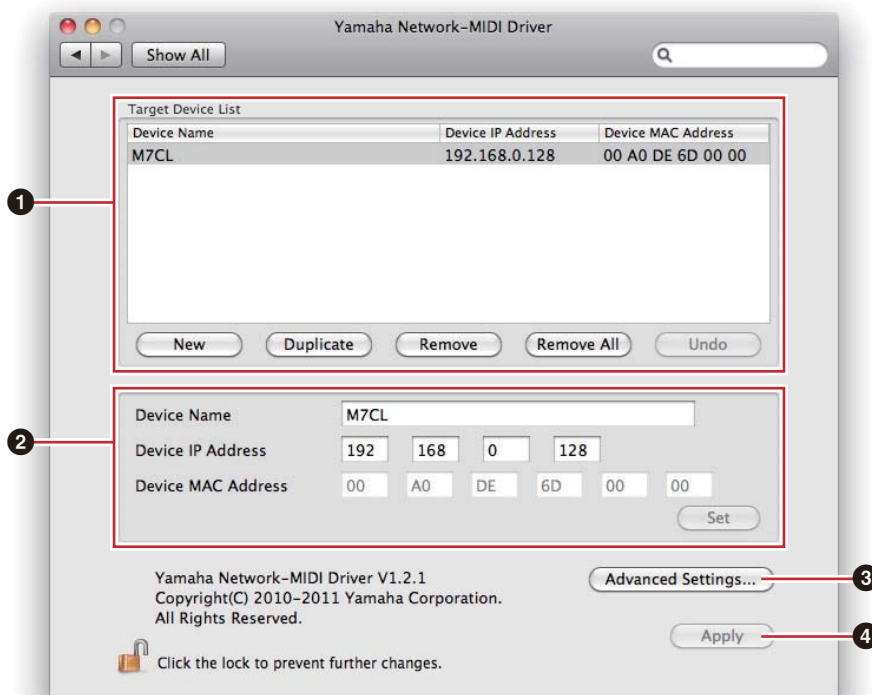The "System Preferences" window appears.

3 **Click [Yamaha Network-MIDI Driver] icon.**

"Yamaha Network-MIDI Driver" window appears.

4 **Click the lock icon located in the lower left corner of the "Yamaha Network-MIDI Driver" window, and then enter the Administrator name and password.**

5 **Set up the driver parameters via the "Yamaha Network-MIDI Driver" window.**

Click the [New] button to input the IP address and other information in Device Information (❷) when the devices connected are not displayed in Target Device List (❶). Click the [Set] button to register the device, then click the [Apply] button to save the setting. When only one device is connected and the network setting is initialized, the communication is available if "192.168.0.128" (M7CL/LS9) or "192.168.0.129" (DSP5D) is set in Device Information (❷). When connecting to multiple devices, click the [Advanced Settings] button to enable the device to be detected automatically for convenient operation.

❶ Target Device List

The name, IP address, and MAC address of all devices registered to communicate with the Network-MIDI Driver are shown in this list. Click the title bars to sort accordingly.

When a device is selected in the list, information related to that device will appear in the device information area (❷) below the list.

Device Name

This column lists the names of devices. When a device is selected in the list, it's name also appears in the Device Name field in the device information area (❷) below the list.

Device IP Address

The IP address of the corresponding device. When a device is selected in the list, it's IP address also appears in the Device IP Address field in the device information area (❷) below the list.

Device MAC Address

The MAC address of the corresponding device. When a device is selected in the list, it's MAC address also appears in the Device MAC Address field in the device information area (❷) below the list.

[New] Button

Click this button to add a new device to the list. Edit the device's parameters as required via the fields in the device information area (❷) below the list, then click the [Set] button to add the specified device.

[Duplicate] Button

This button adds a device to the list by copying the data from the currently selected device. Edit the new device's parameters as required via the fields in the device information area (❷) below the list, then click the [Set] button to add the specified device.

[Remove] Button

Deletes the selected device from the list. If the removed device is not the lowest device in the list, all devices below the removed device will be shifted upward to maintain the continuity of the list.

[Remove ALL] Button

Deletes all devices from the list.

[Undo] Button

This button provides a one-step undo function that allows you to undo a single operation and revert to the previous state. The [Undo] button will be grayed out and inaccessible immediately after an undo operation or after the "Yamaha Network-MIDI Driver" window is launched.

❷ Device Information

When a device that is registered for communication with the Network-MIDI Driver is selected in the Target Device List, the communication parameters for that device can be viewed and edited in the Device Information fields.

Device Name

This is the name of the device. The initial default settings are "UNIT1" through "UNIT511," but the name can be edited as required in the Device Name field.

Device IP Address

The IP address of the device can be set via these fields. Refer to the manual of the corresponding device for details on checking and setting its IP address.

NOTE The IP address must be set properly or communication with the device will not be possible.

Device MAC Address

The MAC (Media Access Control) address of the device can be set via these fields. The MAC address of each device is permanently assigned when the device is manufactured and cannot be changed. The MAC address parameter is included to prevent data from being sent to the wrong device if the IP address in inadvertently set incorrectly. Refer to the manual of the corresponding device for details on checking its MAC address.

NOTE The MAC address must be set properly or communication with the device will not be possible.

NOTE The MAC address of the connected device cannot be changed.

[Set] Button

Click the [Set] button after editing the Device Name, Device IP Address, and Device MAC Address. parameters to actually apply the changes. Also, devices added to the Target Device List (❶) by pressing the [New] or [Duplicate] buttons will only actually be registered for communication with the Network-MIDI Driver when the [Set] button is pressed.

❸ [Advanced Settings] Button

Opens the "Advanced Settings" window.
The parameters in this window set up the device for automatic device detection, and allow saving and loading files. For details refer to the "Automatic Device Detection and Load/Save File" section.

❹ [Apply] Button

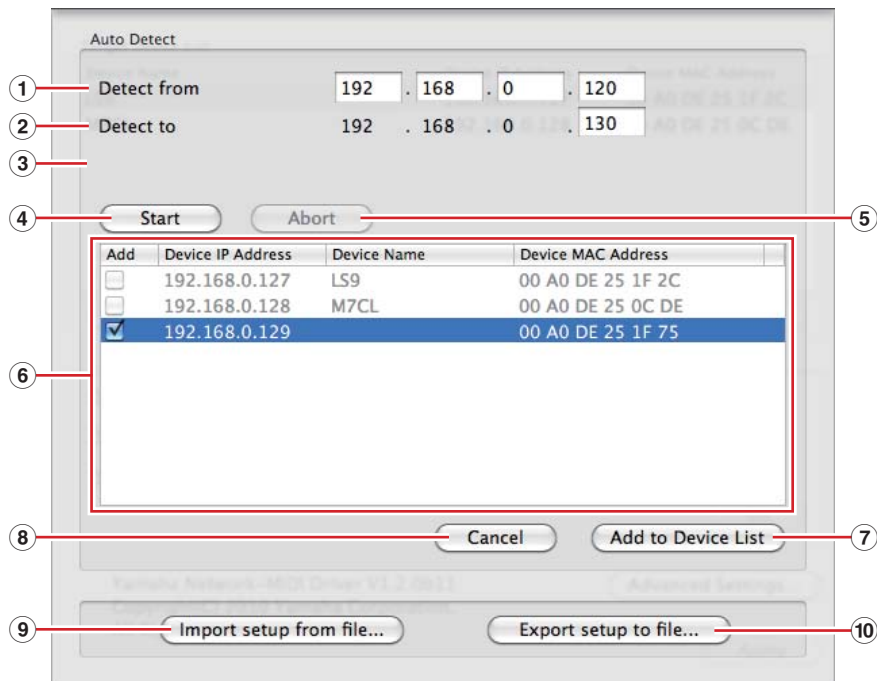The parameters in the display are applied, and communication starts.

♪ NOTE You may be requested to enter the Administrator name and password. In that case, enter the name and password, and then click [OK].

Automatic Device Detection and Load/Save File

The "Advanced Settings" window can be opened by clicking the [Advanced Settings] button in the "Yamaha Network-MIDI Driver" window.

"Advanced Settings" Window

The parameters in the "Advanced Settings" window set up the Network-MIDI Driver for automatic device detection, and allow saving and loading setup files.

Auto Detect

Allows automatic detection of connected devices. A maximum of 254 addresses (***.***.***.1 through ***.***.***.254) can be detected.

♪ NOTE Only devices on the same subnet as the computer can be detected automatically.

Before searching for device(s) make sure that the computer is connected to the subnet to be searched, and that an appropriate IP address is assigned.

① Detect from

Specifies the start IP address for automatic detection.

② Detect to

Specifies the end IP address for automatic detection.

③ Currently searching

Displays the IP address being checked during automatic detection. No display when automatic detection is not in progress.

④ [Start] Button

Initiates automatic detection, and causes the detected device list (⑥) to be updated accordingly. This button is grayed out and is not accessible during automatic detection.

⑤ [Abort] Button

Aborts automatic detection.
This button is grayed out when automatic detection is not in progress.

⑥ Detected Device List

This list shows all detected devices. No devices will be displayed initially.

[Add] Checkbox

Checked devices will be added to the Target Device List when the [Add to Device List] button (below) is clicked. Devices that are already registered cannot be checked.

Device IP Address

The IP address of the corresponding detected device.

Device Name

If a name has been registered for the detected device it will be displayed here, otherwise no name will be displayed.

Device MAC Address

The MAC address of the corresponding detected device.

⑦ [Add to Device List] Button

Devices with checked [Add] checkboxes will be added to the Target Device List when this button is clicked.

⑧ [Cancel] Button

Closes the window without making any changes.

⑨ [Import Setup from File] Button

When working in a different environment it is possible to load a previously saved setup file. Click to open the "Import setup from file" window.
Select a setup file and then click the [Open] button to import the corresponding settings.

⑩ [Export Setup to File] Button

It is possible to save the setup data to a file that can then be reloaded when working in a different environment. Click to open the "Export setup to file" window.
Enter a file name and click the [Save] button to save the setup file.

TCP/IP Settings

1 **Click the [System Preferences] icon on Dock.**

The "System Preferences" window appears.

2 **Click the [Network] icon.**
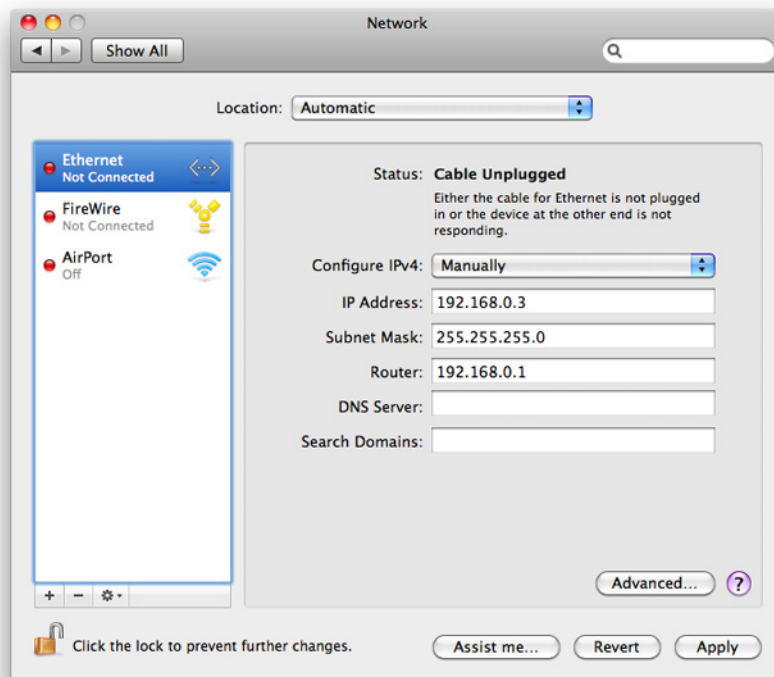
The "Network" window appears.

3 **Click [Ethernet].**

The Ethernet settings appears.

♪ NOTE If there are multiple Ethernet choices, select the one that is connected to the device.

4 **Select [Manually] in [Configure IPv4] or [Configuration]. Input the IP address of the computer in [IP Address], "255.255.255.0" in [Subnet Mask], and the IP address of the router (gateway) in [Router] individually.**

♪ NOTE It is recommended that you set the IP address to "192.168.0.3" when peer-to-peer connecting a single device to a computer. For details on settings when connecting to multiple devices via a switching hub, refer to the installation guide for each editor software.

5 **Click [Apply].**

The network settings are applied.

Troubleshooting (FAQ)

When controlling the device from your computer via Ethernet, the device does not operate correctly.

- Is the Network-MIDI Driver installed?

- Is the Ethernet cable connected correctly?
  Refer to the "Connection of computer and device" section.

- Is the Network-MIDI Driver set up appropriately?
  Refer to the "Setup" section.

- Did you enter an appropriate IP address of the device?
  For details on making settings of the IP Address of the devices, refer to the owner's manual for each device.
  If you are connecting the device to your computer in a one-to-one connection, we recommend that you make the following initial settings.

IP address	192.168.0.128 (M7CL/LS9), 192.168.0.129 (DSP5D)
Gateway address	192.168.0.1
Subnet mask	255.255.255.0

  Refer to the installation guide for each editor software when connecting to multiple devices with network switch.

- Is the computer network setup appropriately?
  Confirm the network setup by following the procedures in the "TCP/IP Settings" section.
  If you are connecting the device to your computer in a one-to-one connection, we recommend that you make the following settings.

IP address	192.168.0.3
Subnet mask	255.255.255.0
Router	192.168.0.1

  Refer to the installation guide for each editor software when connecting to multiple devices with network switch.

- Are the settings of the device and peripheral network devices (including network switch) appropriate?
  Refer to the relevant owner's manuals for the device and peripheral network devices (including network switch) for details.

- Have you selected an appropriate ports in the Editor and Studio Manager?
  Select the device as the input/output port settings of Editor and Studio Manager.

- Are you using the latest Network-MIDI Driver?
  The latest driver can be downloaded from the Yamaha website http://www.yamahaproaudio.com/

• Are the settings of your security software appropriate?

For Mac OS X 10.8/10.7
Click [System Preferences] on Dock → [Security & Privacy] → [Firewall]. Confirm that the firewall is off. When starting the firewall, make advanced settings to enable the following MIDIServer to receive and connect.
/System/Library/Frameworks/CoreMIDI.framework/Versions/Current/MIDIServer

For Mac OS X 10.6
Click [System Preferences] on Dock → [Security] → [Firewall]. Confirm that the firewall is off. When starting the firewall, make advanced settings to enable the following MIDIServer to receive and connect.
/System/Library/Frameworks/CoreMIDI.framework/Versions/Current/MIDIServer

For Mac OS X 10.5
Click [System Preferences] on Dock → [Security] → [Firewall]. Make sure that the [Allow all incoming connections] or [Set access for specific services and applications] checkbox is selected.
When [Set access for specific services and applications] is selected, make detailed settings to enable the following MIDIServer to receive and connect.
/System/Library/Frameworks/CoreMIDIServer.framework/Versions/Current/MIDIServer