



DME Designer Installation Guide

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This CD-ROM is only compatible with Windows® XP Professional/XP Home Edition/2000 Professional. In this manual, "DME" is used to refer to Digital Mixing Engine models such as the DME64N and DME24N; however, this does not include the DME32.

CD-ROM Installation Procedure

- 1 Confirm that your computer and operating system are compatible with the software in this CD-ROM. (See page 10.)
- 2 Install the appropriate driver (YAMAHA USB-MIDI Driver/YAMAHA DME-N Network Driver) on your computer.
- 3 Make appropriate settings for the driver.
- 4 Install the DME Designer.
- 5 Start the DME Designer.

For instructions and details on using the software, refer to the DME Designer Owner's Manual.

CD-ROM Contents



Never attempt to play back the included CD-ROM on an audio CD player. Doing so may result in damage to your hearing as well as to your CD player/audio speakers.

This CD-ROM contains the following software.

Folder		Content	Description	Relevant pages
USBdrv2k_		YAMAHA USB-MIDI Driver	Enables your computer to communicate with the DME when your computer and the DME are connected using a USB cable.	3
Networkdrv_		YAMAHA DME-N Network Driver	Enables your computer to communicate with the DME when your computer and the DME are connected using Ethernet.	5
DMEDesigner_		DME Designer	Application for designing configurations of the DME, sending data to the DME, controlling the DME, and so on.	10
Firmware	Program	Program area firmware	Program data for updating DME. Use DME Designer for updating. Refer to the DME Designer Owner's Manual for details.	—
	Component	Component area firmware	Component data for updating DME. Use DME Designer for updating. Refer to the DME Designer Owner's Manual for details.	—
Manual	English	Manuals	English Installation Guide and Owner's Manual.	—
	German	Manuals	German Installation Guide and Owner's Manual.	—
	French	Manuals	French Installation Guide and Owner's Manual.	—
	Spanish	Manuals	Spanish Installation Guide and Owner's Manual.	—
	Japanese	Manuals	Japanese Installation Guide and Owner's Manual.	—

YAMAHA USB-MIDI Driver

To connect a DME and a computer via USB, it is necessary to install the YAMAHA USB-MIDI Driver to the computer. The YAMAHA USB-MIDI Driver is software that enables to transmit MIDI signal between computer and DME via USB cables or USB-MIDI interface.

Installation

Windows 2000

- 1 Start the computer and use the "Administrator" account to log into Windows 2000.
- 2 Select [My Computer] → [Control Panel] → [System] → [Hardware] → [Driver Signing] → [File Signature Verification] and check the radio button to the left of "Ignore – Install all files, regardless of file signature" and click [OK].
- 3 Insert the included CD-ROM into the CD-ROM drive.
- 4 Make sure the POWER switch on the DME is set to OFF and use the USB cable to connect the USB terminal of the computer (or the USB hub) to the USB terminal of the DME. When the DME is turned on, the computer automatically displays the "Found New Hardware Wizard." Click [Next].
- 5 Check the radio button to the left of "Search for the suitable driver for your device. (Recommended)." The window that appears enables you to select the location for installing the driver.
- 6 Check the "CD-ROM drives" box and uncheck all other items. Click [Next].
NOTE The system may ask you to insert a Windows CD-ROM while it checks for the driver. Specify the "USBdrv2k" folder in the CD-ROM drive (for example, D:\USBdrv2k_) and continue installation.
- 7 When the installation is complete, the system displays "Completing the Found New Hardware Wizard." Click [Finish].
NOTE Some computers may take about ten seconds to show this screen after installation is complete.
- 8 Restart the computer.

The driver has been installed.

Windows XP

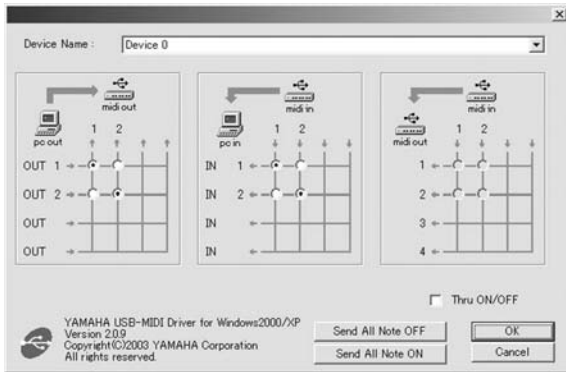
- 1 Start the computer.
- 2 Select [Start] → [Control Panel].
If the control panel shows "Pick a category," click "Switch to Classic View" in the upper left of the window. All control panels and icons will be displayed.
- 3 Select [System] → [Hardware] → [Driver Signing] → [File Signature Verification], and check the radio button to the left of "Ignore – Install all files, regardless of file signature" and click [OK].
- 4 Click [OK] to close the System Properties window, then click the Close button ([X]) at the top right of the window to close the Control Panel.
- 5 Insert the included CD-ROM into the CD-ROM drive.
- 6 Make sure the POWER switch on the DME is set to OFF and use the USB cable to connect the USB terminal of the computer (or the USB hub) to the USB terminal of the DME. When the DME is turned on, the computer automatically displays the "Found New Hardware Wizard."
NOTE Some computers may take a few minutes to show this screen.
- 7 Check the radio button next to "Install the software automatically (Recommended)" then click [Next].
The system starts installation.
- 8 When the installation is complete, the system displays "Completing the Found New Hardware Wizard." Click [Finish].
NOTE Some computers may take about a few minutes to show this screen after the installation is complete.
- 9 Restart the computer.

The driver has been installed.

Setup

In general, there is no need to change the initial settings.

- 1 Select [Start] → [Control Panel] → [MIDI-USB Driver].
The “YAMAHA USB-MIDI Driver” window will appear.



- 2 Setup the driver in the “YAMAHA USB-MIDI Driver” window.

[Device Name]

For selecting the USB device to be used with the USB-MIDI Driver.

MIDI OUT setting

For selecting the appropriate MIDI OUT port of the computer application to correspond to the port number of the USB MIDI signal sent from the computer.

MIDI IN setting

For selecting the appropriate MIDI IN port of the computer application to correspond to the port number of the USB MIDI signal received by the computer.

MIDI THRU setting

For selecting the port number of the USB MIDI input/output signals passing through the computer.

[Thru ON/OFF]

Switches MIDI THRU on/off.

[Send All Note OFF]

Transmits All Note OFF signal to all MIDI OUT ports.

[Send All Note ON]

Transmits All Note ON signal to all MIDI OUT ports.

- 3 Click [OK] and close the “YAMAHA USB-MIDI Driver” window.

The settings made in the window are entered.

NOTE To close the window without entering the settings, click [Cancel].

YAMAHA DME-N Network Driver

To connect a DME and a computer via Ethernet, you will need to install the YAMAHA DME-N Network Driver to the computer. The YAMAHA DME-N Network Driver enables transmission of MIDI data between the computer and the DME via Ethernet cables.

Installation

- 1 Double-click on the "Networkdrv_" folder.
Various files are shown, including "Setup.exe."
- 2 Double-click on "Setup.exe."
When the setup has been initialized, a "Welcome" window appears.
- 3 Click [Next]. The YAMAHA DME-N Network Driver will be installed. When installation is complete, a message appears indicating that setup has been completed.
- 4 In order for the newly installed YAMAHA DME-N Network Driver to take effect, select "Yes, I want to restart my computer now" and click [OK]. The computer will restart.
NOTE When running under Windows XP SP2, an "Windows Security Alert" window may appear after the system is restarted. Select the "Unblock" option.

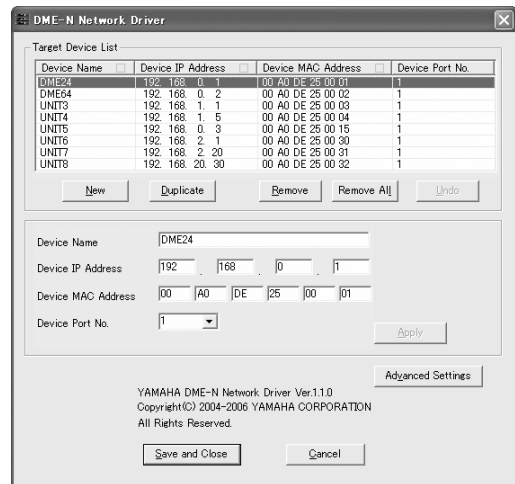
The YAMAHA DME-N Network Driver has been installed.

Uninstalling

- 1 Select [Start] → [Settings] → [Control Panel] → [Add/Remove Programs].
The "Add/Remove Programs" window appears.
- 2 Click [Change/Remove] for the YAMAHA DME-N Network Driver.
Follow the onscreen instructions to uninstall the driver.
NOTE The button names or menus may differ depending on the computer OS.
NOTE If you attempt to reinstall the software after uninstalling it without first restarting your computer, the following message will appear and the install process will be aborted. "Restart your computer, then run the installer." The installer should run normally after your computer has been restarted.

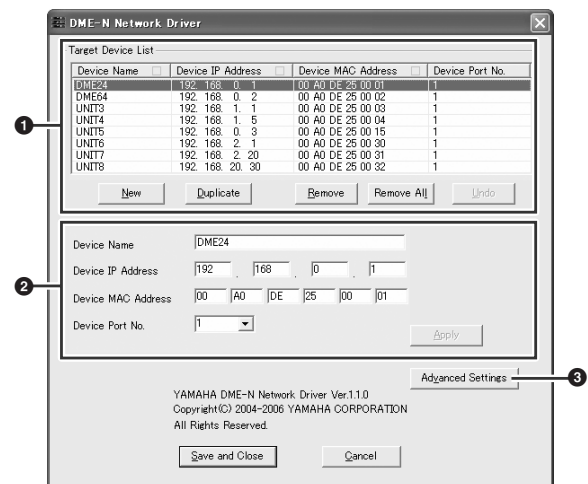
Setup

- 1 Select [Start] → [Control Panel] → [DME-N Network Driver].
The "DME-N Network Driver" window appear.



- NOTE** If an application that uses the YAMAHA DME-N Network Driver is running at this time the "Quit all applications that use the DME-N Network Driver in order to change settings." message will appear. The DME-N Network Driver settings cannot be changed while any application that uses the YAMAHA DME-N Network Driver is running.

- 2 Set up the driver parameters via the "DME-N Network Driver" window.



- NOTE** In order to use the YAMAHA DME-N Network Driver, all computer network devices (hubs, routers, etc.) must be properly connected and configured. Use a cross cable if you will be directly connecting a DME64N/24N to the computer without using any other network devices.

1 Target Device List

The name, number, IP address, MAC address, and MIDI port number of all devices registered to communicate with the YAMAHA DME-N Network 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

2 below the list.

Device Name

This column lists the names of devices registered to communicate with the YAMAHA DME-N Network driver. When a device is selected in the list its name also appears in the Device Name field in the device information area 2 below the list.

Device IP Address

The IP number of the corresponding device. When a device is selected in the list its IP number also appears in the Device IP Number field in the device information area 2 below the list.

Device MAC Address

The MAC address of the corresponding device. When a device is selected in the list its MAC address also appears in the Device MAC Address field in the device information area 2 below the list.

Device Port No.

The MIDI port number of the corresponding device. When a device is selected in the list its MIDI port number also appears in the Device Port No. field in the device information area 2 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 2 below the list, then click the [APPLY] 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 2 below the list, then click the [APPLY] 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 control panel is launched.

2 Device Information

When a device that is registered for communication with the YAMAHA DME-N Network 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 selected in the Target Device List. The initial default settings are "UNIT1" through "UNIT256", but the name can be edited as required in the Device Name field.

[Device IP Address]

The IP address of the device selected in the Target Device List 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 selected in the Target Device List 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 is 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.

[Device Port No.]

The MIDI port number of the device selected in the Target Device List can be set via this menu. The MIDI port number also functions as device ID number. It should be set to "1" for DME64N/24N units.

[NOTE] The MIDI port number must be set properly or communication with the device will not be possible.

[Apply] Button

Click the [Apply] button after editing the Device Name, Device IP Address, Device MAC Address, or Device Port No. parameters to actually apply the changes. Also, devices added to the Target Device List 1 by pressing the [NEW] or [DUPLICATE] buttons will only actually be registered for communication with the YAMAHA DME-N Network Driver when the [Apply] button is pressed.

3 [Advanced Settings] Button

Opens the "Advanced Settings" window. This window provides access to advanced settings. For details refer to the "Advanced Settings" section.

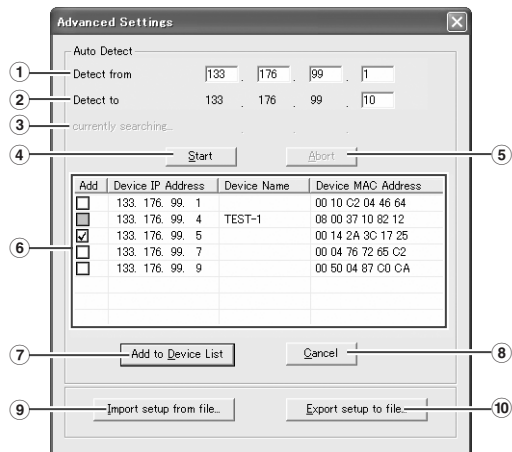
3 When all parameters have been set up as required, click the [Save and Close] button to close the “DME-N Network Driver” window and save the settings.

NOTE Click the [Cancel] button if you want to close the window without saving any changes.

NOTE This button is grayed out and is not accessible while an application that is using the YAMAHA DME-N Network Driver is running.

“Advanced Settings” Window

The parameters in the “Advanced Settings” window set up the YAMAHA DME-N Network Driver for automatic device detection, and allow saving and loading setup files.



Auto Detect

Allows automatic detection of connected devices that can communicate with the YAMAHA DME-N Network Driver. A maximum of 254 addresses (***.***.***.1 through ***.***.***.254) can be detected.

NOTE Only MAC addresses of devices on the same subnet as the computer can be detected. Before searching for MAC addresses 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 that are capable of communication with the YAMAHA DME-N Network Driver. 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 “Open” window. Select a setup file and then click the [Open] button to import the corresponding settings.

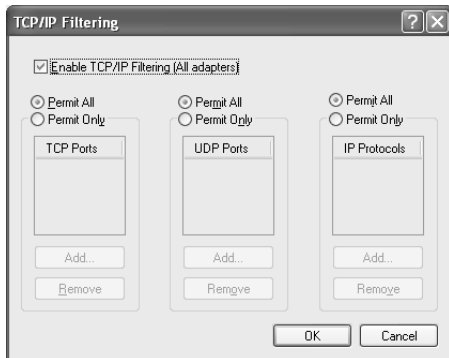
⑩ [Export Setup to File] Button

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 “Save As” window. Enter a file name and click the [Save] button to save the setup file.

TCP/IP Settings

Windows XP SP2

- 1 Select [Start] → [Control Panel].
The “Control Panel” is displayed.
- 2 If the “Control Panel” is in Category display, click [Switch to Classic View].
- 3 Double-click [Network Connections] → [Local Area Connection].
The “Local Area Connection Status” dialog box will be displayed.
- 4 Click [Properties] on the [General] tab.
The “Local Area Connection Properties” dialog box will be displayed.
- 5 Select [Internet Protocol (TCP/IP)] on the [General] tab, then click [Properties].
The “Internet Protocol (TCP/IP) Properties” dialog box will be displayed.
- 6 Click [Advanced...], then [Properties] on the [Options] tab.
The “TCP/IP Filtering” dialog will be displayed.
- 7 Select “Permit All” for TCP Ports, then click [OK].

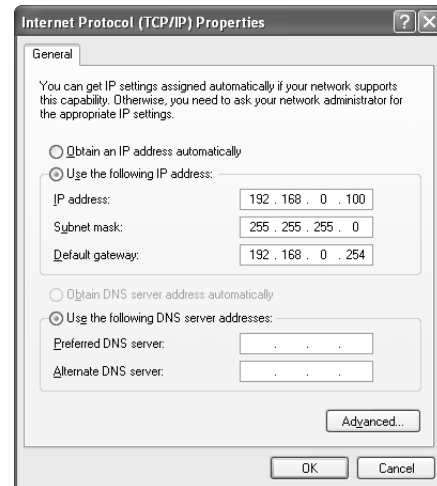


The display returns to the “Advanced TCP/IP Settings” dialog. Click [OK] to return to the “Internet Protocol (TCP/IP) Properties” dialog.

- 8 Click [Use the following IP address] on the [General] tab.

- 9 Enter your computer's IP address into [IP address], the Gateway's IP address into [Default gateway], and “255.255.255.0” into [Subnet mask].

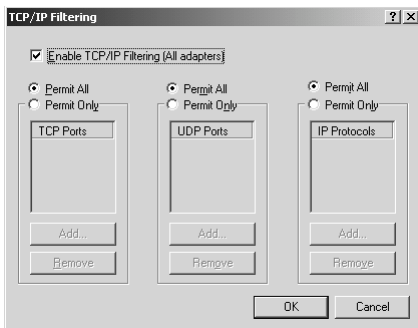
NOTE When installing on the same subnet as the DME unit(s), set the gateway's host address to 254.



- 10 Click [OK].
- 11 Restart your computer.

Windows 2000

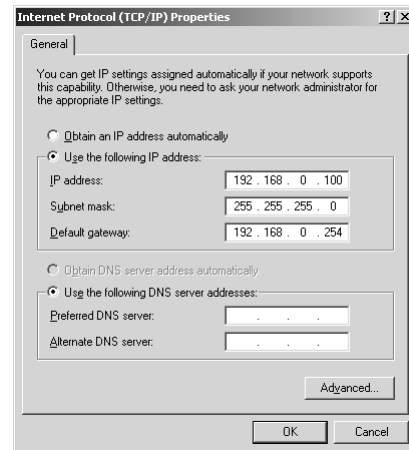
- 1 Select [Start] → [Settings] → [Control Panel] → [Network and Dial-Up Connections] → [Local Area Connection]. The “Local Area Connection Status” dialog box will be displayed.
- 2 Click [Properties] on the [General] tab. The “Local Area Connection Properties” dialog box will be displayed.
- 3 Click [Internet Protocol (TCP/IP)] on the [General] tab, then click [Properties]. The “Internet Protocol (TCP/IP) Properties” dialog box will be displayed.
- 4 Click [Advanced...], then [Properties] on the [Options] tab. The “TCP/IP Filtering” dialog will be displayed.
- 5 Select “Permit All” for TCP Ports, then click [OK].



The display returns to the “Advanced TCP/IP Settings” dialog. Click [OK] to return to the “Internet Protocol (TCP/IP) Properties” dialog.

- 6 Click [Use the following IP address] on the [General] tab.
- 7 Enter your computer's IP address into [IP address], the Gateway's IP address into [Default gateway], and “255.255.255.0” into [Subnet mask].

NOTE When installing on the same subnet as the DME unit(s), set the gateway's host address to 254.



- 8 Click [OK].
- 9 Restart your computer.

An example of four DME settings in a single area

The explanation in this example is based on both the zone and computer sharing the following IP address pattern: “192.168.000.xxx.”

If you will be following the instructions in “Controlling from a Computer That Has the Same Network Address” on page 26 of the “DME64N/24N Owner's Manual,” you will need to make some changes to the network settings of your computer in addition to the DME-N Network settings described on page 5.

For the first DME, “192.168.000.2” is set as the zone master IP address.*¹

For the second DME, “192.168.000.3” is set as a zone slave IP address.*²

For the third DME, “192.168.000.4” is set as a zone slave IP address.*²

For the fourth DME, “192.168.000.5” is set as a zone slave IP address.*²

For the computer, “192.168.000.001” is set as the IP address.*³

“255.255.255.0” is set as the subnet mask.

If the default gateway is not connected to an external network, there is no setting. If connected to an external network, set “192.168.000.254”.*⁴

Allow all TCP ports in TCP/IP filtering.

If you are using Windows XP, disable the Internet connection firewall setting.

*¹ There are two zone master host addresses.

*² Any address between 3 and 253 is a zone slave host address.

*³ For the IP address set on the PC, you can select host address 1 or 3 through 253, as long the one you set does not duplicate a DME address.

*⁴ The gateway host addresses is fixed as 254.

System Requirements

OS:	Windows® XP Professional/XP Home Edition/2000 Professional
CPU:	1GHz or higher; Intel® Pentium®/Celeron® family processor
Memory:	256MB or more
Hard disk space:	300MB or more
Display:	1024 x 768; high color (16-bit) or higher
Other:	Mouse, CD-ROM drive, 100Base-TX/10Base-T Ethernet or USB connection

Installation

NOTE If an older version of DME Designer is installed on your computer, you will need to uninstall it before proceeding.

- 1 Double-click on the “DMEDesigner” folder.
An executable file “setup.exe” is shown.
- 2 Double-click on “setup.exe.”
A Setup window for DME Designer appears.
- 3 Execute the installation by following the onscreen instructions.
After installation is complete, the DME Designer folder appears on your computer (in “Program Files\YAMAHA\OPT Tools” folder, as the default).

For details on operation, refer to the DME Designer Owner’s Manual.

You can access the DME Designer Owner’s Manual by selecting each folder in the “Manual” folder.

NOTE In order to view the DME Designer Owner’s Manual, Adobe Acrobat Reader must be installed to your computer. If you do not have Adobe Acrobat Reader, you can download it for free from the Adobe website below.
<http://www.adobe.com/>

Uninstalling

Method 1

- 1 Select [Start] → [All Programs] → [YAMAHA OPT Tools] → [DME Designer] → [Setup].
The “YAMAHA DME Designer” dialog box appears.
- 2 Select [Remove] in “YAMAHA DME Designer” dialog box and click [Next].
The dialog box for confirmation appears.
- 3 Click [Yes].
DME Designer is uninstalled.

Method 2

- 1 Select [Start] → [Settings] → [Control Panel] → [Add/Remove Programs].
The “Add/Remove Programs” window appears.
- 2 Click [Change/Remove] of the DME Designer.
Follow the onscreen instructions to uninstall the driver.
NOTE The button names or menus may differ depending on the computer OS.

The YAMAHA USB-MIDI Driver cannot be installed.

- **Is the USB cable connected correctly?**
Refer to the DME64N/24N Owner's Manual to confirm proper connection of USB cables.
- **Is the USB function enabled on your computer?**
When you connect the DME to the computer for the first time, if the "Add New Hardware Wizard" does not appear, the USB function on the computer may be disabled. Perform the following steps.
 - 1 Select [Start] → [Settings] → [Control Panel] → [System].
The "System" window appears.
 - 2 Double-click the "Device Manager" tab and make sure that no "!" or "x" marks appear at "Universal serial bus controller" or "USB Root Hub."
If you see the "!" or "x" mark, the USB controller is disabled. Refer to the owner's manual of your computer for details.
- **Is any unknown device registered?**
If driver installation fails, the DME will be shown as an "Unknown device," and you will not be able to install the driver. Delete the "Unknown device" by following the steps below.
 - 1 Select [Start] → [Settings] → [Control Panel] → [System].
The "System" window appears.
 - 2 Double-click the "Device Manager" tab. With the "View devices by type" check box checked, look for "Other devices."
 - 3 If you find "Other devices," double-click it to extend the tree to look for "Unknown device." If one appears, select it and click the [Remove] button.
 - 4 Remove the USB cable from the DME, and make the connection again.
 - 5 Install the driver again according to the instructions following step 4 on page 3.

When controlling the DME from your computer via USB, the DME does not operate correctly.

- Did you install the driver?
- Is the USB cable connected correctly?
- Is the YAMAHA USB-MIDI Driver set up appropriately?
- **Have you selected an appropriate port in the DME Designer or another relevant MIDI application?**
Make sure that the settings in one application have either the combination of "YAMAHA USB IN 0-1" and "YAMAHA USB OUT 0-1," or the combination of "YAMAHA USB IN 0-2" and "YAMAHA USB OUT 0-2."
Settings combining different port numbers (i.e., "YAMAHA USB IN 0-1" and "YAMAHA USB OUT 0-2," or "YAMAHA USB IN 0-2" and "YAMAHA USB OUT 0-1") cannot be used.
- **Have you selected the same USB ports in both the DME Designer and another relevant MIDI application?**
Change the setting of the USB port so that both the DME Designer and the other MIDI application match.

- **Are you using the latest YAMAHA USB-MIDI driver?**
The latest driver can be downloaded from the Yamaha website (address given at the end of this manual).
- **Have you selected USB as MIDI port in the DME?**
Select USB for the MIDI port.
- **Did you launch DME Designer after connecting a USB cable and turning the device ON?**
Be sure to connect the USB cable and turn the device on before launching DME Designer.
- **Was the USB cable disconnected during operation?**
If the USB cable is accidentally disconnected, DME designer will not recognize the device even if the cable is reconnected. You will have to restart DME Designer.

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

- Did you install the driver?
- Is the Ethernet cable connected correctly?
- **Is the YAMAHA DME-N Network Driver set up appropriately? Did you enter an appropriate IP address?**
- **Is the computer network setup appropriate?**
Select [Start] → [Settings] → [Control Panel] → [Network Connections] → [Local Area Connection], and confirm the network setup.
- **Are the settings of DME and peripheral network devices (including switching hubs) appropriate?**
Refer to the relevant owner's manuals for the DME and peripheral network devices (including switching hubs) for details.
- **Have you selected an appropriate network port in the DME Designer?**
- **Are you using the latest YAMAHA DME-N Network Driver?**
The latest driver can be downloaded from the Yamaha website (URL below).
<http://www.yamahaproaudio.com/>
- **Do you have security software running on your system?**
Either disable the security software, or set it to allow use of TCP port 12300 on the network card being used by the DME-N Network Driver.

Cannot suspend or resume the computer correctly.

- **Do not suspend the computer while the DME Designer is running.**
If you are using Windows 2000, you may not be able to suspend/resume normally, depending on the particular environment (USB Host Controller, etc.). (Even so, simply disconnecting and connecting the USB cable will allow you to use the DME functions again.)