



USB-MIDI INTERFACE

UX16



Owner's Manual

SPECIAL MESSAGE SECTION

This product utilizes an external power supply (adapter). DO NOT connect this product to any power supply or adapter other than one described in the manual, on the name plate, or specifically recommended by Yamaha.

WARNING: Do not place this product in a position where anyone could walk on, trip over, or roll anything over power or connecting cords of any kind. The use of an extension cord is not recommended! If you must use an extension cord, the minimum wire size for a 25' cord (or less) is 18 AWG. NOTE: The smaller the AWG number, the larger the current handling capacity. For longer extension cords, consult a local electrician.

This product should be used only with the components supplied or; a cart, rack, or stand that is recommended by Yamaha. If a cart, etc., is used, please observe all safety markings and instructions that accompany the accessory product.

SPECIFICATIONS SUBJECT TO CHANGE:

The information contained in this manual is believed to be correct at the time of printing. However, Yamaha reserves the right to change or modify any of the specifications without notice or obligation to update existing units.

Do not attempt to service this product beyond that described in the user-maintenance instructions. All other servicing should be referred to qualified service personnel.

This product, either alone or in combination with an amplifier and headphones or speaker/s, may be capable of producing sound levels that could cause permanent hearing loss. DO NOT operate for long periods of time at a high volume level or at a level that is uncomfortable. If you experience any hearing loss or ringing in the ears, you should consult an audiologist. IMPORTANT: The louder the sound, the shorter the time period before damage occurs.

Some Yamaha products may have benches and/or accessory mounting fixtures that are either supplied with the product or as optional accessories. Some of these items are designed to be dealer assembled or installed. Please make sure that benches are stable and any optional fixtures (where applicable) are well secured BEFORE using. Benches supplied by Yamaha are designed for seating only. No other uses are recommended.

NOTICE:

Service charges incurred due to a lack of knowledge relating to how a function or effect works (when the unit is operating as designed) are not covered by the manufacturer's warranty, and are therefore the owners responsibility. Please study this manual carefully and consult your dealer before requesting service.

ENVIRONMENTAL ISSUES:

Yamaha strives to produce products that are both user safe and environmentally friendly. We sincerely believe that our products and the production methods used to produce them, meet these goals. In keeping with both the letter and the spirit of the law, we want you to be aware of the following:

Disposal Notice:

Should this product become damaged beyond repair, or for some reason its useful life is considered to be at an end, please observe all local, state, and federal regulations that relate to the disposal of products that contain lead, batteries, plastics, etc. If your dealer is unable to assist you, please contact Yamaha directly.

NAME PLATE LOCATION:

The name plate is located on the bottom of the product. The model number, serial number, power requirements, etc., are located on this plate. You should record the model number, serial number, and the date of purchase in the spaces provided below and retain this manual as a permanent record of your purchase.

Model

Serial No.

Purchase Date

PLEASE KEEP THIS MANUAL

PRECAUTIONS

PLEASE READ CAREFULLY BEFORE PROCEEDING

* Please keep this manual in a safe place for future reference.



WARNING

Always follow the basic precautions listed below to avoid the possibility of serious injury or even death from electrical shock, short-circuiting, damages, fire or other hazards. These precautions include, but are not limited to, the following:

Cables

- Check the USB terminal periodically and remove any dirt or dust which may have accumulated on it.
- Do not place the cable near heat sources such as heaters or radiators, and do not excessively bend or otherwise damage the cable, place heavy objects on it, or place it in a position where anyone could walk on, trip over, or roll anything over it.

Do not open

- Do not open the instrument or attempt to disassemble the internal parts or modify them in any way. The instrument contains no user-serviceable parts. If it should appear to be malfunctioning, discontinue use immediately and have it inspected by qualified Yamaha service personnel.

Water warning

- Do not expose the instrument to rain, use it near water or in damp or wet conditions, or place containers on it containing liquids which might spill into any openings.
- Never insert or remove an electric plug with wet hands.

Fire warning

- Do not put burning items, such as candles, on the unit. A burning item may fall over and cause a fire.

If you notice any abnormality

- If the USB cable becomes frayed or damaged, or if there is a sudden loss of sound during use of the instrument, or if any unusual smells or smoke should appear to be caused by it, disconnect the USB terminal, and have the instrument inspected by qualified Yamaha service personnel.



CAUTION

Always follow the basic precautions listed below to avoid the possibility of physical injury to you or others, or damage to the instrument or other property. These precautions include, but are not limited to, the following:

Location

- Do not expose the instrument to excessive dust or vibrations, or extreme cold or heat (such as in direct sunlight, near a heater, or in a car during the day) to prevent the possibility of panel discoloration or damage to the internal components.
- Do not use the instrument in the vicinity of a TV, radio, stereo equipment, mobile phone, or other electric devices. Otherwise, the instrument, TV, or radio may generate noise.
- Do not place the instrument in an unstable position where it might accidentally fall over.
- Before moving the instrument, remove all connected cables.

Connections

- Before connecting the instrument to other electronic components, turn off the power for all components without computer.

Before turning the power on or off for all components, set all volume levels to minimum. Also, be sure to set the volumes of all components at their minimum levels and gradually raise the volume controls while playing the instrument to set the desired listening level.

Maintenance

- When cleaning the instrument, use a soft, dry cloth. Do not use paint thinners, solvents, cleaning fluids, or chemical-impregnated wiping cloths.

Handling caution

- Do not place vinyl, plastic or rubber objects on the instrument, since this might discolor the panel or keyboard.
- Do not rest your weight on, or place heavy objects on the instrument, and do not use excessive force on the connectors.

Yamaha cannot be held responsible for damage caused by improper use or modifications to the instrument, or data that is lost or destroyed.

Always unplug the UX16 from a computer or turn off the computer to turn off the UX16 when the UX16 is not in use.

Welcome to the UX16

Thank you for choosing the Yamaha UX16 USB-MIDI Interface Cable.

The UX16 is a MIDI interface that features simultaneous playback of up to 16 channels. Connect the UX16 to a computer that has a USB terminal and enjoy the advantages of digital music.

Please read this owner's manual thoroughly to make the best use of the UX16.

After you read this manual, please keep it in a safe place for future reference.

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- 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.
- Windows is a registered trademark of Microsoft® Corporation in the United States and other countries.
- Apple, Mac and Macintosh are trademarks of Apple Inc., registered in the U.S. and other countries.

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UX16 Features

● 16 channel simultaneous playback

Supports your music production system with one MIDI OUT port (16 channels) and one MIDI IN port (16 channels).

● Easy Hot Swap Connection

With a USB connection, you can connect and disconnect the USB cable while the power to the computer is on. The UX16 operates on USB bus power and does not require a power adaptor.

● Indicators show the operating status

The indicators of USB and MIDI IN/OUT make it easy to verify operation.

● Connect multiple units to expand your system

You can easily expand the number of ports by using a USB hub to connect multiple UX16 units.

NOTE A maximum of 16 units can be connected, but this will depend on your system.

● Supports Windows and Macintosh

The UX16 supports Windows 2000/XP/Vista and Mac OS X 10.4 through Mac OS X 10.5.

Notes on USB

When connecting the UX16 to the USB terminal of your computer, you must observe the following points.

If you fail to observe these points, your computer may freeze (hang up), or the UX16 may stop working.

If your computer or the UX16 stops working, power-off your computer and start it up again.

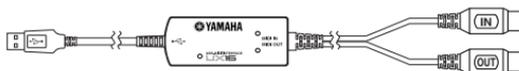


- Before you connect the UX16 to the USB terminal of your computer, you must disable power conservation mode (suspend/sleep/standby, etc.) on your computer.
- You must do the following before you connect or disconnect the USB cable.
 - Close all applications.
 - Make sure that data is not being transmitted from the UX16.
- You must leave an interval of at least six seconds between plugging and unplugging the USB cable.

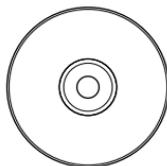
Package Contents

The UX16 package contains the following items. Check the contents for missing items.

- USB-MIDI interface cable (UX16 main unit)



- CD-ROM (Windows/Macintosh hybrid CD)



About the included software

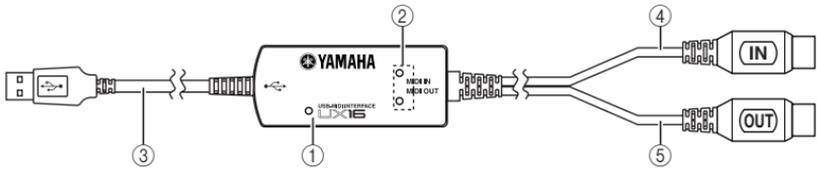
The included CD-ROM contains the following software (driver).

- **USB-MIDI driver (Yamaha USB-MIDI Driver)**
This driver is required for operating the UX16.
For details on installation, refer to the following.

If you're using Windows: see [page 8](#)

If you're using Macintosh: see [page 13](#)

Parts and Functions



① **USB indicator**

This indicator will light when the USB cable is connected and the driver on your computer begins to operate.

② **MIDI IN/OUT indicators**

These indicators will light when MIDI messages pass through the corresponding cable.

③ **USB cable**

Connect this to the USB terminal of your computer or USB hub.

④ **MIDI IN cable**

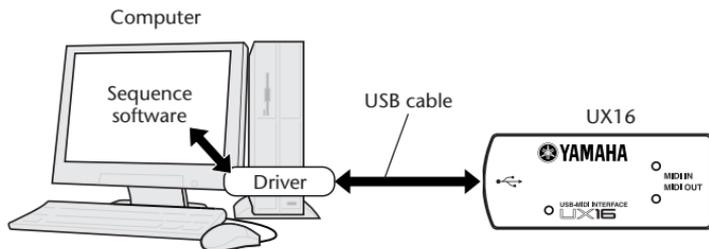
This cable receives MIDI messages from your keyboard or other MIDI device. Connect it to the MIDI OUT terminal of your MIDI device.

⑤ **MIDI OUT cable**

This cable transmits MIDI messages to your tone generator or other MIDI device. Connect it to the MIDI IN terminal of your MIDI device.

Installing the Driver

To operate the UX16, you need to install the driver on the computer correctly. The USB-MIDI driver is software that transmits MIDI signals back and forth between sequence software and the UX16 via a USB cable.



Windows 2000 users → See [page 8](#).

Windows XP users → See [page 9](#).

Windows Vista users → See [page 10](#).

Mac OS X users → See [page 13](#).

Windows users:

● Installing the USB-MIDI Driver on a Windows 2000 Computer

NOTE Do not connect the UX16 to your computer until you are instructed to do so in the following procedure.

NOTE You must log into Windows as the Administrator (using the computer's administrator account) to install the USB-MIDI driver.

1. Insert the CD-ROM included in the package into the CD-ROM drive on your computer.

The system displays the UX16 Driver Installation Utility panel.

NOTE If the system does not display the UX16 Driver Installation Utility panel, double-click "My Computer," then right-click the CD-ROM drive icon. The system displays a pop-up menu. Select [Open] from the pop-up menu, then double-click the "Start_E.exe" file.

2. Click [Install].

3. Connect the UX16 to the computer.

The system automatically launches the Found New Hardware Wizard.

NOTE Some computers may take a while to display the Wizard window.

Click [Next].

4. Select the radio button for “Search for a suitable driver for my device [recommended],” then click [Next].

NOTE If the Wizard panel informs you that “The software you are about to install does not contain a Microsoft digital signature,” click [Yes].

5. Check the “CD-ROM drives” check box, deselect all other check boxes, then click [Next].

NOTE If the system prompts you to insert the Windows CD-ROM during detection of the drivers, point to the “USBdrv2k_” folder (e.g., D:\USBdrv2k_) and continue the installation.

6. Deselect the “Install one of the other drivers,” then click [Next].
When the installation is complete, the Wizard displays “Completing the Found New Hardware Wizard.”

7. Click [Finish].

NOTE Some computers may take a while to display the Wizard window.

8. Restart the computer.

The USB-MIDI driver installation is complete.

● Installing the USB-MIDI Driver on a Windows XP Computer

NOTE Do not connect the UX16 to your computer until you are instructed to do so in the following procedure.

NOTE You must log into Windows as the Administrator (using the computer’s administrator account) to install the USB-MIDI driver.

1. Insert the CD-ROM included in the package into the CD-ROM drive on your computer.

The system displays the UX16 Driver Installation Utility panel.

NOTE If the system does not display the UX16 Driver Installation Utility panel, double-click “My Computer,” then right-click the CD-ROM drive icon. The system displays a pop-up menu. Select [Open] from the pop-up menu, then double-click the “Start_E.exe” file.

2. Click [Install].

3. Connect the UX16 to the computer.

The system automatically launches the Found New Hardware Wizard.

NOTE Some computers may take a while to display the Wizard window.

NOTE If the Wizard window prompts you to specify whether or not to connect to Windows Update, select the radio button for “No, not this time,” then click [Next].

4. Select the radio button for “Install the software automatically (recommended),” then click [Next].

NOTE If during the installation the system displays “...has not passed Windows Logo testing to verify its compatibility with Windows XP,” click [Continue Anyway].

When the installation is complete, the Wizard displays “Completing the Found New Hardware Wizard.”

5. Click [Finish].

NOTE Some computers may take a while to display the Wizard window.

6. Restart the computer.

The USB-MIDI driver installation is complete.

● Installing the USB-MIDI Driver on a Windows Vista Computer

NOTE Do not connect the UX16 to your computer until you are instructed to do so in the following instructions.

NOTE You must log into Windows as the Administrator (using the computer's administrator account) to install the USB-MIDI driver.

1. Insert the CD-ROM included in the package into the CD-ROM drive on your computer.

2. The system displays the UX16 Driver Installation Utility panel.
Click [Install].

NOTE If the system does not display the UX16 Driver Installation Utility panel, select "Start" → "Computer," then right-click the CD-ROM drive icon. Following this, a pop-up menu appears. Select [Open] from the pop-up menu, then double-click the "Start_E.exe" file.

3. Connect the UX16 to the computer.

The system automatically launches the Found New Hardware Wizard.

NOTE Some computers may take a while to display the Wizard window.

4. Click "Locate and install driver software (recommended)."

NOTE If the "User Account Control" window appears after clicking "Locate and install driver software (recommended)," click [Continue].

5. Click "Don't search online."

NOTE Depending on your computer OS setting, this message may not appear.

6. Click "Browse my computer for driver software (advanced)."

7. Click [Browse] to specify the search location.

8. Select the CD-ROM drive that contains the CD-ROM included with the package, and the installation starts.

Select the drive, then click "OK." When the previous window appears again, check "Include subfolders," then click "Next" to start installation.

NOTE Depending on the setting of your computer, the alert message below may appear during the installation process for security purposes. Confirm this software is authored by Yamaha Corporation then click [Install].

9. When a message appears indicating that the driver has been successfully installed, click [Finish].

NOTE On some computers, it may take a few minutes before this screen appears.

The USB-MIDI driver installation is complete.

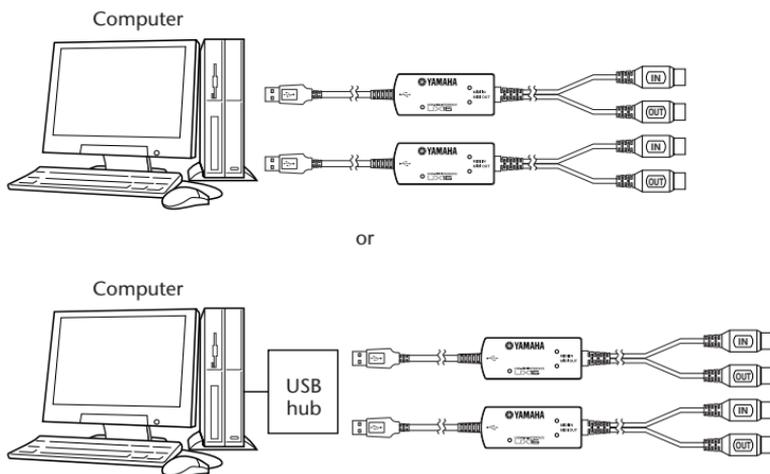
Checking operation

1. Is the USB indicator lit?
If the driver is installed correctly, the USB indicator will light.
2. Does the MIDI OUT indicator blink?
Use your sequence software or the Windows Media Player to play back MIDI data. Alternatively, click [Send All Note On] in the MIDI Patch screen (page 17). The MIDI OUT indicator will light when MIDI messages pass through the cable.
3. Does the MIDI IN indicator blink?
Use the MIDI IN cable to connect your MIDI keyboard etc., and play it. The MIDI IN indicator will light when MIDI messages pass through the cable.

● Using two or more UX16s

Follow the steps below to connect two or more UX16s.

1. Start up your computer.
2. Connect the USB cable to the USB terminal of your computer (or USB hub).
3. If you're using Windows 2000/XP, you'll need to install the driver again. If you're using Windows Vista, you don't need to install the driver again.



NOTE When you turn on the power to connected multiple UX16s, the device number is assigned, starting with 0, to the units in the order in which you turn on the power. If

you turn on the power to all units simultaneously, the device number is assigned based on the order of the port numbers of the USB hub. However, this order may change depending on the hub.

NOTE Use a USB hub that obtains its power from a power adaptor. Operation may be unstable with a bus-powered USB hub.

Mac OS X users:

1. Start up your computer, and log in using a user account that has administrative privileges.

NOTE To see whether you have administrative privileges, check the “Users (Accounts)” item in “System Preference.”

2. Insert the included CD-ROM into your CD-ROM drive.
The CD-ROM icon appears on the desktop.
3. Double-click the CD-ROM icon to open it. Then open the “Mac OS X” folder and double-click the “YAMAHA USB-MIDI V1.**.mpkg” icon located within it. (** indicates the version number.)
The “Authenticate” window opens, asking you to enter the password.

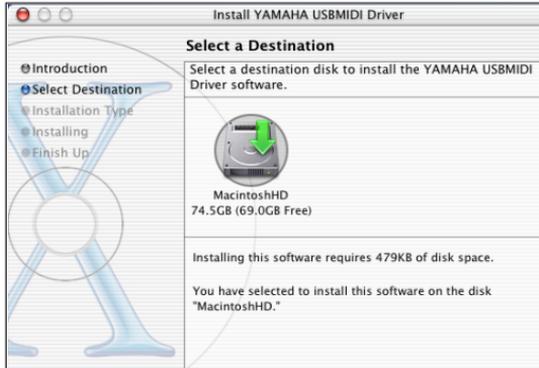
NOTE If you are not asked for a password, click the  (lock) icon.

4. Enter the password for the user with administrative rights. If no password has been specified, simply click [OK].



5. The screen indicates “Welcome to the YAMAHA USB MIDI Driver Installer.” Click [Continue].

- In “Select a Destination,” select the location in which the driver will be installed. Then click [Continue].



NOTE The screen may indicate “Installing this software requires 100MB of disk space,” but the actual disk space required is as described in the system requirements (page 22).

- The screen indicates “Click install to perform a basic installation of this software package.” Click [Install].

NOTE If the software has already been installed, the [Install] button will be displayed as the [Upgrade] button.

- Verify that the screen indicates “The software was successfully installed,” and click [Close].

Driver installation is now complete.

You will be able to see that the driver and MIDI Patch Screen are installed in the following locations.

- “Library”: “Audio” : “MIDI Drivers”: “YAMAHA-USBMIDIPlugin.plugin” (USB-MIDI Driver)
- “Library”: “PreferencePanels”: “YAMAHA-USBMIDIPatch.prefPane” (MIDI Patch Screen)

Checking operation

1. Is the USB indicator lit?

If the USB-MIDI driver is installed correctly, the USB indicator will light.

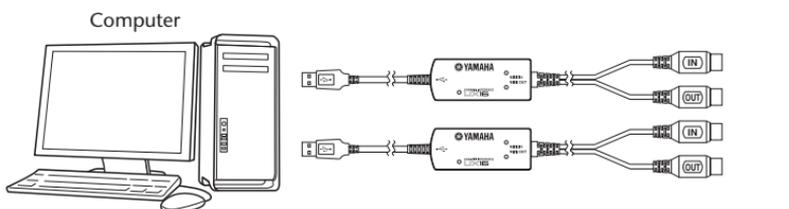
2. Does the MIDI OUT indicator blink?

Use your sequence software to play back MIDI data. Alternatively, click [Send All Note On] in the MIDI Patch screen (page 17). The MIDI OUT indicator will light when MIDI messages pass through the cable.

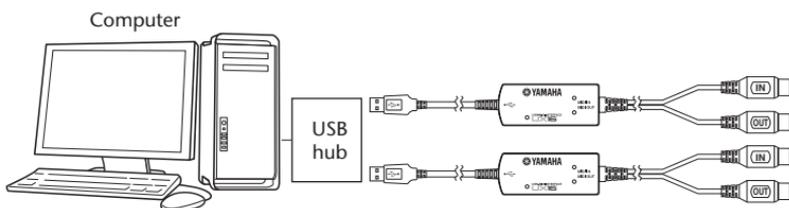
3. Does the MIDI IN indicator blink?

Use the MIDI IN cable to connect your MIDI keyboard etc., and play it. The MIDI IN indicator will light when MIDI messages pass through the cable.

● Using two or more UX16s



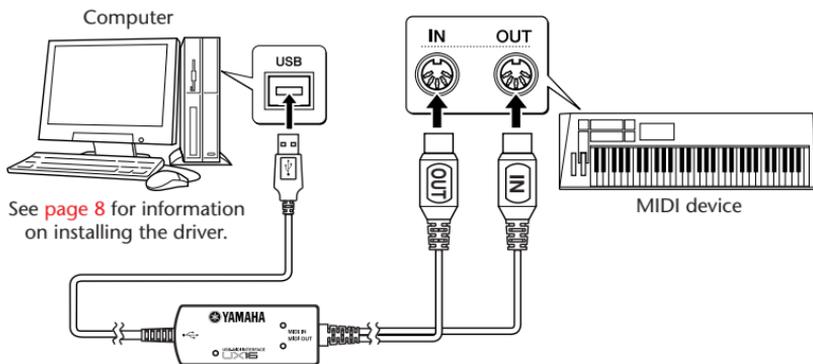
or



NOTE Use a USB hub that obtains its power from a power adaptor. Operation may be unstable with a bus-powered USB hub.

Connections

This section explains how to use the UX16 to connect your MIDI devices (tone generator or keyboard, etc.) to your computer.



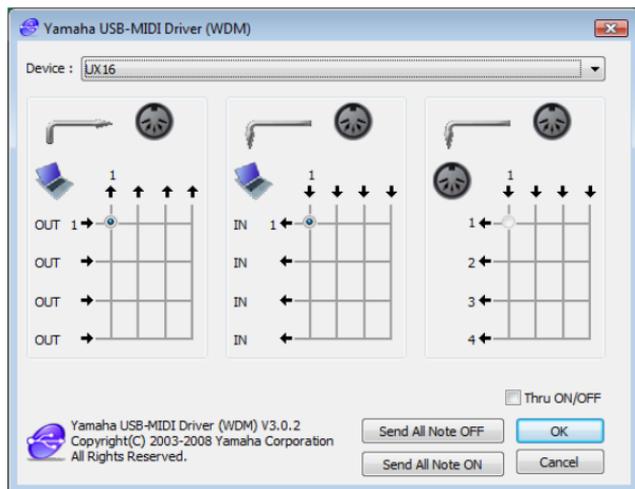
- 1. Connections to your computer**
Connect the USB cable to the USB terminal of your computer (or USB hub). It is not necessary to turn off the power of your computer before doing so.
- 2. Connections to MIDI devices**
Turn off the power of your MIDI devices before connecting them. **Connect the MIDI OUT cable of the UX16 to the MIDI IN terminal of your MIDI device, and connect the MIDI IN cable to the MIDI OUT terminal of your MIDI device.**

Changing the driver setting (MIDI Patch Screen)

You can change the I/O assignment of the UX16 as required.

● Starting the MIDI Patch screen

The start-up method and the MIDI Patch screen differ slightly for Windows and Macintosh systems. However, the basic operation of the screen is the same. The following section explains how to operate the MIDI Patch screen on a Windows Vista.



[Windows]

1. Select "Start" → "Control Panel."
2. Double-click "Yamaha USB-MIDI Driver" icon to display the screen.

[Mac OS X]

Select "System Preferences" from the Apple menu, then select "YAMAHA USB-MIDI" to display the screen.

● Changing the device number

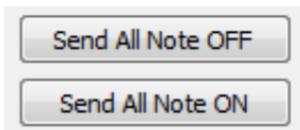
If you are using multiple UX16s, you can change the device number. Click “Device Name.” The System displays the drop-down list. Select the device for which you wish to change the setting.

- NOTE** If you are using a Macintosh computer, the device name is assigned as follows:
- Mac OS X: “YAMAHA UX16”, “YAMAHA UX16 2”, etc.



● Checking the signal path

To see if the MIDI device is connected correctly, you can try transmitting MIDI signals.



- **Note Off Message**

When you click [Send All Note OFF], a MIDI All Note Off message will be sent to the UX16.

- **Note On Message**

When you click [Send All Note On], a MIDI All Note On message will be sent to the UX16.

● Changing connections during playback (PC OUT→MIDI OUT)

The left column shows the computer’s output port (OUT 1), and the top column shows the UX16’s output port (1). If you remove the check box, a MIDI signal from the computer to a MIDI device does not flow.

● Changing connections during recording (MIDI IN→PC IN)

The left column shows the computer’s input port (IN 1), and the top column shows the UX16’s input port (1). If you remove the check box, a MIDI signal from a MIDI device to the computer does not flow.

● THRU output of MIDI signals (MIDI IN→MIDI OUT)

You can route MIDI signals received at the input port of the UX16 directly to the output port of the UX16 (this is called THRU output). This routing is useful when you wish to route MIDI signals from a MIDI keyboard directly to a tone generator. The left column shows the UX16's output ports (1), and the top column shows the UX16's input port (1). To enable this function, check the "Thru ON/OFF" check box in the lower right corner of the screen.

NOTE For Windows 2000/XP and Macintosh computers, this function is valid only when the MIDI Patch screen or sequence software is using the UX16.

Uninstalling the USB-MIDI Driver

To uninstall the USB-MIDI driver from your computer, follow the procedure outlined below.

For Windows

1. Disconnect all USB devices from the computer except for the mouse and computer keyboard.
2. Start the computer and use the “Administrator” account to log on Windows. Close all applications and windows that are open.
3. Insert the CD-ROM (included in the package) into the CD-ROM drive on your computer.
4. The system displays the UX16 Driver Installation Utility panel. Click [EXIT].

NOTE If the system does not display the UX16 Driver Installation Utility panel, go on to the next step.

5. Select [Start] [My Computer] (for Windows XP), or select [My Computer] (for Windows 2000), or select [Start] [Computer] (for Windows Vista).
6. Right-click the CD-ROM icon and select “Open” from the pop-up menu.
7. Open the following folder (according to your particular operating system).

OS	Folder
Windows 2000	usbdrv2k_\uninstall
Windows XP Professional / Home Edition	usbdrv2k_\uninstall
Windows XP Professional x64 Edition	USBdrvVista_\uninstall
Windows Vista	USBdrvVista_\uninstall

8. Double-click “uninstall.exe.”
Follow the on-screen instructions to uninstall the driver.

NOTE When using a 64-bit OS, click “uninstall_x64.exe.” from the “USBdrvVista_” folder.

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

9. Follow the on-screen instructions to restart the computer.

For Macintosh

1. Disconnect all USB devices from the computer except for the mouse and computer keyboard.
2. Start the computer and use the "Administrator" account to log on Windows. Close all applications and windows that are open.
3. Delete the following files.
 - "User" → "Your user folder" → "Library" → "Preferences" → "jp.co.yamaha.USB-MIDIDriver.plist" (This file is created after the driver is loaded.)
 - "Library" → "Audio" → "MIDI Driver" → "YAMAHAUSBMIDIPlugin.plugin"
 - "Library" → "Preference Panes" → "YAMAHAUSBMIDIPatch.prefPane"
 - "Library" → "Receipts" → "YAMAHA-USBMIDIPlugin.pkg"
 - "Library" → "Receipts" → "YAMAHA-USBMIDIPatch.pkg"
4. Restart the computer.

System Requirements

The system requirements below may differ slightly depending on the particular operating system.

[Windows]

For Windows 2000/XP

OS:	Windows 2000 / XP Professional / XP Home Edition
CPU:	166 MHz or higher; Intel Pentium or Celeron family processor
Available Memory:	32 MB or more
Hard Disk:	Free disk space of 3 MB or more
Interface:	Built-in USB terminal.

NOTE If you are using Windows XP Professional x64 Edition, see below.

For Windows Vista / XP Professional x64 Edition

OS:	Windows Vista / XP Professional x64 Edition
CPU:	800MHz or higher; Intel Pentium / Celeron processor or Intel 64 compatible processor
Available Memory:	512 MB or more
Hard Disk:	Free disk space of 3 MB or more
Interface:	Built-in USB terminal.

[Macintosh]

OS:	Mac OS X 10.4 – 10.5
CPU:	Power Mac G3 or higher or using Intel Processor
Available Memory:	128 MB or more
Hard Disk:	Free disk space of 3 MB or more
Interface:	Built-in USB terminal.

Specifications

Connection cables:	MIDI IN cable, MIDI OUT cable (each 1,250 mm) USB cable (600 mm)
Indicators:	USB indicator, MIDI IN indicator, MIDI OUT indicator
Power Supply:	USB bus power supply
Dimensions:	86 (W) × 36 (D) × 16 (H) [mm]
Weight:	approx. 140g (5 oz)

Specifications and descriptions in this Owner's Manual are for information purposes only. Yamaha Corp. reserves the right to change or modify products or specifications at any time without prior notice. Since specifications, equipment or options may not be the same in every locale, please check with your Yamaha dealer.

Troubleshooting (FAQ)

● The driver cannot be installed.

● Is the USB cable connected correctly?

- Check the UX16 connection. (page 16)
- Disconnect the UX16 from your computer, then connect it again.
- Connect the UX16 and your computer directly without to use the USB hub.

● [Windows] Is the USB function enabled on your computer?

- When you connect the UX16 to the computer for the first time, if the “Add New Hardware” wizard (pages 8 and 9) or the “Found New Hardware” wizard (page 10) does not appear, the USB function on the computer may be disabled. Perform the following steps.

1. Select “Control Panel” → (“System” → (“Hardware”)) → “Device Manager” to open the Device Manager Window.
2. 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. For more information, refer to the owner’s manual of your computer.

● [Windows] Is any unknown device registered?

- If driver installation fails, the UX16 will be evaluated 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 “Control Panel” → “System” → (“Hardware”) → “Device Manager” (Windows 2000/XP) or “Control Panel” (→ “System and Maintenance”) → “System” → “Device Manager” (Windows Vista) to open the Device Manager Window.
2. Check “Devices by type” from the “View” menu, and 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, and make the connection again.
5. Install the driver by following the steps (starting from Step 3) described on page 8.

- **The UX16 does not operate correctly, or no sound is heard.**
 - Did you install the driver? (page 8)
 - Are the USB cable, MIDI cables, and audio cables connected correctly? (page 16)
 - Is the volume setting of the tone generator, playback device, and application program set to the appropriate level?
 - Is the HOST SELECT switch on the tone generator set to "MIDI"?
 - Have you selected an appropriate port in the sequence software?
- **Playback response is delayed.**
 - Does your computer satisfy the system requirements? (page 22)
 - Is any other application or device driver running?
- **Cannot suspend or resume the computer correctly.**
 - Do not suspend the computer while the MIDI application is running.
 - If you are using Windows, it may not be possible to suspend/resume, depending on your USB host controller and other aspects of your system. (Even if this occurs, the UX16 will operate correctly if you re-connect the USB cable.)

CANADA

This Class B digital apparatus complies with Canadian ICES-003.

Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

(class B)

- This applies only to products distributed by Yamaha Canada Music Ltd.
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