

MIDI Interface Manual

Introduction

Thank you for purchasing M-Audio's Uno. Uno is a 1x1 MIDI interface for USB-equipped PC and Macintosh computers. Uno's high-speed Universal Serial Bus connection assures reliable and speedy transfer of MIDI data to and from the computer.

Uno is self-powered and can be conveniently attached to your computer's USB port without the need for tools or computer disassembly. There is no need for additional cables—Uno comes with integrated USB and MIDI cables as part of its sturdy construction.

Follow the installation instructions in this manual and you will be up and running in no time. Expansion also is easy—for additional MIDI ports, simply install more Unos!

Features

Uno USB MIDI Interface offers the following features:

- 1-in/1-out MIDI via USB connection (16 x 16 MIDI channels)
- High-speed connection to PC or Apple computers with USB port
- MIDI input and output LED indicators
- Self-powered—requires no external power supply
- Compatible with Mac OS 9.2.2 and Mac OS X (OMS required in OS 9.2.2)
- Compatible with Windows 98SE and higher—true plug-and-play installation requires no IRQ, I/O address or DMA channel setup
- Extremely compact size
- 1 Year Warranty

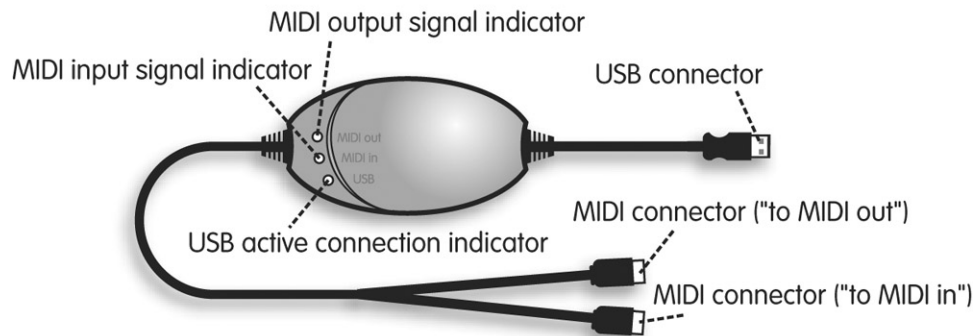
Please read the installation instructions thoroughly before connecting your Uno. The drivers must be installed first. Please refer to the section titled "Installation Procedure."

Package Contents

The Uno package includes:

- Uno interface
- Driver disk for Windows and Macintosh
- This manual

Top View



1. USB cable and connector—used to connect Uno to the host computer’s USB port
2. USB LED—when pulsing, indicates that Uno is powered and functioning
3. MIDI in and MIDI out LEDs—indicate MIDI input or output activity
4. MIDI out cable and connector—sends MIDI signals from the computer to a receiving device
5. MIDI in cable and connector—receives MIDI signals from a sending device for input into the computer via USB

Overview

Uno provides one MIDI input port and one MIDI output port, each supporting 16 MIDI channels. MIDI is the acronym for Musical Instrument Digital Interface and is the protocol used when MIDI keyboards and devices (devices that record and play back the MIDI information, such as computer or hardware sequencers) communicate with each other.

On a PC: You must be running Windows 98SE or higher to properly use Uno. Additionally, your motherboard must also have an available USB port. If it does not, you will need to install a PCI-to-USB host adapter to provide the USB ports. It is possible for a motherboard to support USB and yet not have the physical port connectors installed. A simple USB back panel extender can be purchased at a computer supply store and easily installed to provide USB port connectors.

On a Macintosh: Your computer must support USB and have physical ports present. Standard iMacs or G3/G4s with USB ports are adequate.

IMPORTANT (For Mac OS 9.2.2 users): You **MUST** use software that supports OMS and have OMS properly installed in order to use Uno. An OMS MIDI driver is provided for Mac OS 9.2.2, but is not required for OS X.

Guide To Getting Started

Here is an overview of the steps needed to begin using your Uno on either a Mac or a PC:

1. Install the Uno driver and hardware (see “Installation Procedure”).
2. Connect your keyboard and sound module to Uno (see “Setting Up Your MIDI Studio”).
3. Configure Uno in your application program (see “Using Uno in Your Application Software”).

Installation Procedure

Before you connect your Uno to your computer system, the Uno driver software needs to be installed. The driver is a special, dedicated program that makes Uno accessible to applications on your computer. On the included driver disk, M-Audio supplies the drivers that enable you to use Uno with Windows and Mac OS 9.2.2. These Uno drivers, Opcode OMS for Mac OS 9.2.2, and user manuals are supplied on the included dual-formatted disk.

Windows 98SE:

1. Insert the Uno Driver CD-ROM into your computer's CD-ROM drive.
2. Connect Uno to your computer's USB port. The computer will update its database as it looks for drivers. After doing this, your computer will identify Uno as a "USB device" and the "Found New Hardware" screen will appear. Click "Next."
3. Windows' Hardware Wizard will ask you what you want to do next. Check "Search for the best driver for your device" and click "Next."
4. Windows will ask you for the location of the driver. Uncheck all boxes except "Specify location" then click "Browse."
5. Browse to the CD-ROM drive of your computer and click on "Win98SE" folder to select the folder. Click "OK."
6. The location is now specified in the "Add New Hardware Wizard Screen." Click "Next."
7. Windows will load the "USB MIDI 1x1 Loader" driver. When it has found it, Windows will state that it is now ready to install this driver. Click "Next."
8. After Windows copies the files, the final window of this part of the installation process will show that the driver has been installed. Click "Finish."
9. Next, Windows will find an additional "USB Device" and label it "Unknown Device." Click "Next" to continue.
10. Windows Hardware Wizard will ask you what you want to do next. Check "Search for the best driver for your device" then click "Next."
11. Windows will ask you for the location of the driver. Uncheck all boxes except "Specify Location" then click "Browse."
12. Browse to your CD-ROM Drive and click on "Win98SE" to select the folder. Click "OK."
13. Windows will now state that it has found the "USB MIDI 1x1 Driver" and is ready to install this driver. Click "Next" to continue.
14. Windows will load the driver and report that it is finished. Click "Finish" to end the installation. Uno is now installed on your computer.

Windows ME:

1. Insert the Uno Driver CD-ROM into your computer's CD-ROM drive.
2. Connect Uno to your computer's USB port. The computer will update its database as it looks for drivers. After doing this, your computer will identify Uno as a "USB Device" and the "Found New Hardware" screen will appear. Click "Next."
3. Windows "Add New Hardware Wizard" will prompt to specify the location of the drivers. Make sure that "Search for the best driver for your device" is checked and then click "Browse."
4. Browse to your CD-ROM Drive then click on "WinME" to select the folder. Click "OK" to continue.

5. Windows will now state that it has ready to install the best driver for this device. Click "Next " to continue.
6. After the files are copied, Windows will state that it has finished installing the new hardware device. Click "Finish" to complete this portion of the installation.
7. Next, Windows will find an "Unknown Device" and the "Found New Hardware" window will appear again.
8. Check "Specify the location of the driver" and click "Next" to continue.
8. Windows' "Add New Hardware Wizard" will prompt to specify the location of the drivers. Make sure that "Search for the best driver for your device" is checked then click "Browse."
9. Browse to your CD-ROM Drive and click "WinME" to select the folder. Click "OK" to continue.
10. Windows will now state that it is ready to install the best driver for this device. Click "Next " to continue.
11. After the files are copied, Windows will state that it has finished installing the new hardware device. Click "Finish" to complete the installation. Your Uno is now installed and ready to use.

Windows 2000:

1. Connect Uno to your computer's USB port. The computer will update its database as it looks for drivers. After doing this, your computer will identify Uno as a "USB device" and the "Found New Hardware" screen will appear. Click "Next."
2. The next screen prompts you to select how you wish to install the drivers. Check "Search for a suitable driver for my device" and click "Next" to continue.
3. The next screen prompts for the location of the drivers. Uncheck all boxes except "Specify a location" and select "Next."
4. The next screen prompts you to insert the manufacturer's driver disk. Place the Uno Driver CD-ROM into your computer's CD-ROM drive. Once the CD-ROM is in the computer, click "Browse."
5. Browse to your CD-ROM drive and open the "Win2000" folder. Click "Open" to continue.
6. The correct installation path is inserted into the "Found New Hardware Wizard." Click "OK" to continue.
7. The next screen will prompt, "Windows found a driver for this device." To install the driver Windows found, simply click "Next."
8. After the files are copied, Windows will report that it has finished installing the software for this device. Click "Finish" to complete this portion of the installation.
9. Windows will now start the "Found New Hardware Wizard" again as it finds another device.
10. The next screen prompts you to select how you wish to install the drivers. Check "Search for a suitable driver for my device" and click "Next" to continue.
11. The next screen prompts for the location of the drivers; uncheck all boxes except "Specify a location" and select "Next."
12. Browse to your CD-ROM drive and open the "Win2000" folder. Click "Open" to continue.
13. The next screen will prompt, "Windows found a driver for this device." To install the driver Windows found, simply click "Next."
14. After the files are copied, Windows will report that it has finished installing the software for this device. Click "Finish" to complete this portion of the installation. Your Uno is now installed and ready to use.

Windows XP:

1. Insert the Uno Driver CD-ROM into your computer's CD-ROM drive.
2. Connect Uno to your computer's USB port. The first item you will see in Windows XP is a little balloon that pops up from the taskbar in the lower right hand corner. Immediately after this appears, Windows will open the "Found New Hardware Wizard." Select "Install from a list or specific location" and click "Next" to continue.
3. In the next screen, only check "Include this location in the search" and click "Browse" to continue.
4. Now navigate to your CD-ROM drive. Click the "WinXP" folder to select it, then click "OK" to continue.
5. Now the correct installation path is listed on the "Found New Hardware Wizard." Click "Next" to continue.
6. At this point, you may receive a warning about Windows Logo Testing. Click "Continue Anyway" to continue with the installation.
7. Windows will now report that it has finished installing the software for this device. Click "Finish" to complete this portion of the installation.
8. Windows will find another device and the "Found New Hardware Wizard" will open again. Select "Install from a list or specific location" and click "Next" to continue.
9. In the next screen, make sure "Include this location in the search" is still checked, then click "Next" to continue.
10. At this point, you may receive another warning about Windows Logo Testing. Click "Continue Anyway" to continue with the installation.
11. Windows will now report that it has finished installing the software for this device. Click "Finish" to complete this portion of the installation.
12. Windows XP will now find a third new device, stating that it is "Searching for Drivers" in a little balloon that pops up on the taskbar in the lower right hand part of the desktop.
13. Windows will then open the "Found New Hardware Wizard" again. Select "Install from a list or specific location" and select "Next" to continue.
14. In the next screen, be sure there is still a check next to "Include this location in the search" and click "Next" to continue.
15. If you receive the Windows Logo Testing warning, click "Continue Anyway" to continue with the installation.
16. Windows will now report that it has finished installing the software for this device. Click "Finish" to complete this portion of the installation.
17. Windows XP finishes the installation by displaying a little balloon in the lower right hand corner of the desktop that says, "Your new hardware is installed and ready to use." Your Uno is now installed on your computer.

Mac OS 9.2.2:

1. Before installing Uno drivers, you must have Opcode OMS 2.3.8 installed and running on your system. If you do not have OMS installed, it can be found on the Uno Driver CD in the "OMS 2.3.8" folder. Double-Click "Install OMS 2.3.8" to begin the OMS installer.
2. Once you have confirmed that OMS is installed on your computer, double-click the file "Install Midisport Uno Support" found on the Uno Driver CD.
3. The installer will launch. Follow the onscreen directions.

4. When the installer completes, restart your computer.
5. Once it has re-booted, plug Uno into an available USB port on your computer.
6. Double-click "OMS Setup" which is located in your hard drive at Opcode > OMS Applications > OMS Setup.
7. Follow the onscreen directions to begin a new studio setup. When asked which ports to scan, leave all selections unchecked. Press "Scan" to continue.
8. After OMS completes its scan, a list will be presented of all the devices that it found. If everything is installed properly, you will see "USB MIDI 1x1" in this list. If you don't see this listed, quit OMS and check the connections on Uno—you may also want to try another USB port if one is available.
9. Once you've confirmed that "USB MIDI 1x1" is in the list, press OK.
10. You will then be presented with a similar list and will see a "USB MIDI 1x1" listing with a keyboard icon with a question mark on top of it. Place an "X" in the box next to the keyboard icon to enable the port.
11. Press OK and you'll be asked to save your current setup. While you may name this setup anything you would like, "My Studio Setup" is a common name to use.
12. Once your setup is saved, it will be displayed on screen. The window should show the keyboard-with-question-mark icon followed by "USB MIDI 1x1."
13. To test the setup, go to the "Studio" menu and choose "Test Studio."
14. Once "Test Studio" is selected, your mouse will look like a small music note. Click on the keyboard-with-question-mark icon and you should see the "MIDI Out" light blink on Uno as you do so.
15. If the "MIDI Out" light blinks, the OMS MIDI system is now configured. You may now quit OMS Setup by choosing "Quit" from the file menu.

Mac OS X:

1. The Uno package does not contain drivers for Mac OS X. You will need to download this driver from the M-Audio website located at www.m-audio.com. When you reach the website, click the orange "Drivers" link located on the left edge of the page. You will then be asked to choose your device (select MIDISPORT Uno USB) and your operating system. Once you make your selections, press "Submit." You will then be presented with the most current driver for the Uno. Click on the driver name (at the time of this writing, the driver name is "M-Audio USB MIDI OS X 3.1.tar"), read the software disclaimer, check "I Agree" and click "Download." The driver will be downloaded to your desktop.
2. Once the driver is downloaded, a folder will be created on your desktop that bears the same name as the downloaded file. Open this folder and double-click the file located inside. This will create a virtual disk drive on your desktop.
3. Open the new virtual disk drive located on the desktop.
4. Double-click the file named "M-Audio USB MIDI Installer.mpkg"
5. The driver installer will launch. Follow the on-screen directions.

NOTE: During the install procedure, you will be prompted for a password. This is your administration password and is necessary any time you make modifications to the operating system, like when installing a new driver. Enter your administration password to continue the installation.

6. After all the drivers are installed, plug Uno into an available USB port on your computer.
7. You can confirm proper installation by looking at Uno itself. If Uno is working properly, the "USB" light will be slowly fading in and out.

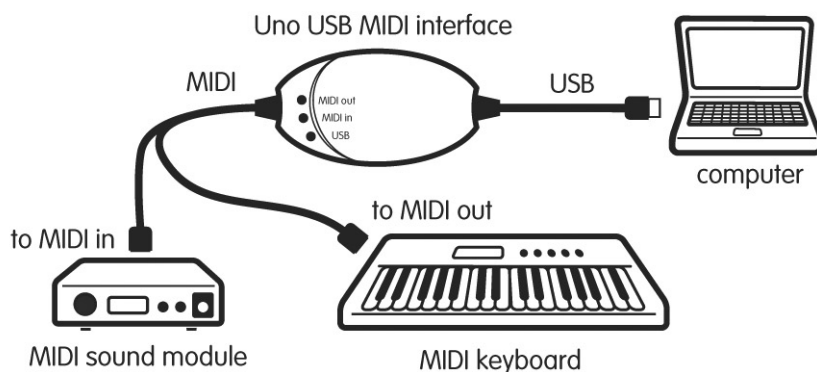
Setting Up Your MIDI Studio

A typical MIDI system setup might include your Uno, a computer, MIDI sequencing software, a MIDI controller keyboard and, perhaps, a MIDI-compatible sound module. This type of setup can be constructed as follows:

1. Connect Uno via the USB cable to the computer's USB port connector.
2. Connect the "To MIDI out" cable from Uno to the MIDI out jack of your controller keyboard.
3. Connect the other cable, labeled "To MIDI in," to the MIDI in jack of your sound module.

In the set-up below, Uno is being used as a MIDI interface, inputting and outputting MIDI data between the controller keyboard, the sound module (from which sound will be produced) and the computer and its application software.

Typical Setup



Using Uno in Your Application Software

In order to utilize Uno once you have completed the installation procedure, you will need to configure your MIDI application software. The manner in which this is done varies between applications, so it is only possible to cover basics here.

On both Macs and PCs, most MIDI applications have a MIDI port configuration or settings dialog box, titled something like "MIDI Devices" or "MIDI Setup." It is within this dialog box that you will need to select and enable your Uno's inputs and outputs. If the Uno drivers are properly installed, the input port selection for your operating system will be as follows:

	Windows	Mac OS 9.2.2	Mac OS X
MIDI In Name	Uno In-A	USB MIDI 1x1	1x1 [Port 1]
MIDI Out Name	Uno Out-A	USB MIDI 1x1	1x1 [Port 1]

NOTE FOR MAC OS 9.2.2 USERS: When assigning MIDI ports in your application, the "USB MIDI 1x1" will appear twice in the list of available MIDI ports. You will need to select the **second** "USB MIDI 1x1" in the list for Uno to function.

The in and out ports correspond to the physical input and output of your Uno—make sure that you highlight or check those items if they are not already selected. The output port that you select for a specific MIDI track within your sequence will output MIDI information to the keyboard or sound module attached to that port.