FastLane™-USB
QuickStart Guide for Windows
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Packing List and System Requirements

THANK YOU FOR CHOOSING MOTU
Thank you for purchasing FastLane. Please read the important information in this booklet before using it.

PLEASE REGISTER TODAY
Please send in the registration card included with your FastLane interface. As a registered user, you will be eligible to receive on-line technical support email and announcements about product enhancements as soon as they become available. Only registered users receive these special update notices, so please, complete and mail this registration card! Thank you for taking the time to register your new Mark of the Unicorn product!

PACKING LIST
FastLane is shipped with the items listed below. If any are not present, please immediately contact your dealer or Mark of the Unicorn.

- FastLane-USB Interface
- USB cable
- CD with software drivers
- This manual
- Product registration card

MIDI CABLES NOT INCLUDED
To connect MIDI devices to FastLane-USB, you need MIDI cables, purchased separately.

COMPUTER REQUIREMENTS
Your MOTU MIDI interface will run with any USB-equipped PC compatible running Windows 98SE, Windows Me, Windows 2000 or Windows XP.

MIDI SOFTWARE COMPATIBILITY
Your MOTU MIDI interface will run with any MIDI-compatible software under Windows 98SE, Windows Me, Windows 2000 or Windows XP.

GETTING STARTED
Follow the directions in this booklet to successfully install and begin using FastLane-USB.

FAMILIARITY WITH WINDOWS
This manual assumes that you are familiar with using a Windows computer. If not, please review your Windows User’s Guide before proceeding.

VISIT OUR WEB SITE FOR SOFTWARE UPDATES
Driver updates are posted on our web site as soon as they become available, so check our web site for the latest drivers: www.motu.com.
Installing FastLane-USB

CONNECTING A USB COMPUTER
Using the USB cable included with your MOTU MIDI interface, put the Type A plug into a Type A USB jack on the computer, a USB hub, or any other USB device connected to the computer that has an available Type A USB jack. The USB cable allows the computer to communicate with all MIDI devices connected to your MOTU MIDI interface.

If you have several FastLane-USB (or other MOTU) interfaces, see “Connecting multiple USB interfaces” on page 8.
CONNECTING MIDI GEAR

Connect each MIDI device's MIDI IN jack to one of FastLane's two MIDI OUT jacks as shown by Connection 1 below. Conversely, connect the MIDI OUT jack on the MIDI device to one of FastLane's two MIDI IN jacks as shown by Connection 2.

One-way MIDI connections

MIDI devices that do not receive MIDI data, such as a dedicated keyboard controller, guitar controller, or drum pad, only need Connection 2 shown in Figure-3. Similarly, devices that never send data, such as a sound module, only need Connection 1. However, if you plan to use editor/librarian software with the sound module, or if you need to get system exclusive bulk dumps from it, make both connections. In general, make both connections for any device that needs to both send and receive MIDI data.
If you use up both MIDI OUTs on the FastLane, and you still have more gear to connect, run a MIDI cable from the MIDI THRU of a device already connected to the interface to the MIDI IN on the additional device as shown below in Figure-4. The two devices then share the same MIDI OUT port on FastLane. This means that they share the same set of 16 MIDI channels, so try to do this with devices that receive on only one MIDI channel (such as effects modules) so their receive channels don’t conflict with one another.

Figure-4: Connecting additional devices with MIDI THRU ports.
CONNECTING MULTIPLE USB INTERFACES

The USB (Universal Serial Bus) specification allows you to connect multiple MOTU interfaces to a single computer. You can mix and match any combination of MOTU USB interfaces to suit your needs.

The USB (Universal Serial Bus) specification allows many USB devices — theoretically up to 127 — to be connected to a single computer. However, many USB devices, including all MOTU USB interfaces, reserve USB bandwidth, so the theoretical and practical limits for MOTU interfaces are considerably fewer. In theory, the maximum number of MOTU USB interfaces you can connect to one computer is around 25 interfaces. Practically speaking, regardless of how slow or fast your USB-equipped computer is, you should be able to connect upwards of 10 or more MOTU USB MIDI interfaces and still enjoy just as much performance from each one as if it were the only one connected. Just don’t try to run your USB scanner or digital camera while playing back and recording MIDI!

For further details about USB, visit www.usb.org.

To connect multiple FastLanes (or other MOTU interfaces) to a computer, you’ll need an inexpensive device called a USB Hub (purchased separately from your computer peripherals dealer). A USB Hub has multiple Type A ports on it, usually between 4 and 7 ports, to which you connect multiple USB MIDI interfaces as shown below in Figure-5. Connect them to the hub in the standard fashion, as if you were connecting them directly to the computer. If needed, you can connect multiple hubs to each other to get enough USB ports for your multiple MOTU USB interfaces.

Figure-5: An inexpensive, standard USB hub allows you to connect multiple MOTU USB MIDI interfaces. You can even mix and match different models of MOTU interfaces, using the combination that best suits your needs for synchronization, number of MIDI ports, etc.
Installing the MOTU USB Windows Driver

To install the MOTU USB MIDI driver:

1. If the FastLane-USB is currently connected to the computer, unplug it.
2. Turn on your computer.
3. If you have previously installed MOTU USB MIDI drivers, use the Windows Add/Remove Programs control panel to remove the old MOTU USB MIDI drivers before proceeding.
4. If the Windows Add Hardware Wizard appears during startup, do not proceed and exit from the Wizard.

Instead of installing the FastLane-USB drivers manually via the Wizard, you will run the FastLane-USB software installer.

5. Insert the MOTU USB software installer CD in the computer's CD drive (if you haven't already).
6. If the MOTU USB software installer program does not automatically begin running, double-click SETUP.EXE on the installer CD to launch it.
7. Follow the directions the installer gives you.
INSTALLING THE MOTU USB WINDOWS DRIVER
Using MOTU USB MIDI ports

MIDI PORTS
Once you have installed the MOTU FastLane-USB MIDI driver, you'll notice that two MIDI inputs and outputs are available to your MIDI programs. The port names appear as shown in Figure-6.

Figure-6: MOTU FastLane-USB ports in Cakewalk SONAR™.

TROUBLESHOOTING
My MOTU USB interface ports don't show up in my Windows MIDI software, no matter what I do. Have you unplugged the USB cable and then plugged it back in lately? Under certain circumstances, doing so will cause the interface's drivers to lose communication with the hardware. If this is happening to you, make sure the USB cable is plugged in (both to the computer and the interface, of course). Then, quit all MIDI applications. When you relaunch them, the interface should now be available to them again. If this is still not the case, shut down the computer, check the USB cable connections to the interface, make sure that its THRU button is NOT pushed in (disengaged), and power up the computer again.

TECHNICAL SUPPORT
Registered users who are unable, with their dealer's help, to solve problems they encounter with their MOTU interface may contact our technical support department in one of the following ways:

- Tech support phone (9 am to 6 pm EST): (617) 576-3066
- Tech support fax: (617) 354-3068
- Tech support email: techsupport@motu.com
- On-line tech support database: www.motu.com

We are happy to provide customer support to our registered users. If you haven't already done so, please take a moment to complete the registration card in the front of the manual and send it in to us. When we receive your card, you'll be placed on our mailing list for free software updates and other information.
REPLACING DISKS
If your MOTU USB software CD becomes damaged or lost, our Customer Support Department will be glad to replace it. Or you can download the latest version of the drivers and consoles from www.motu.com.

THE MIDI THRU BUTTON
The MIDI THRU button on the front of the FastLane-USB, when pushed in, creates a direct connection from each MIDI IN connector to its corresponding MIDI OUT connector. For example, data received on MIDI IN A is routed directly to MIDI OUT A. Similarly, data received on MIDI IN B is routed directly to MIDI OUT B. This provides a direct connection from the MIDI device connected to the input to a different device connected to the output. For example, you could use your MIDI controller connected to MIDI IN A to play a MIDI sound module connected to MIDI OUT A, without the need to run any MIDI software on the computer.

When MIDI THRU is engaged, MIDI communication to and from the computer is temporarily disabled. The USB cable connection to the computer is still required, however, as it supplies power to the FastLane-USB. Therefore, MIDI THRU mode still requires the USB cable to be connected to the computer, and the computer must be turned on.