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• All features and specifications subject to change without notice.

Third Edition Aug. 2004

# 1. Introduction to Miditerminal M4U

Thank you for choosing ESI Miditerminal M4U.

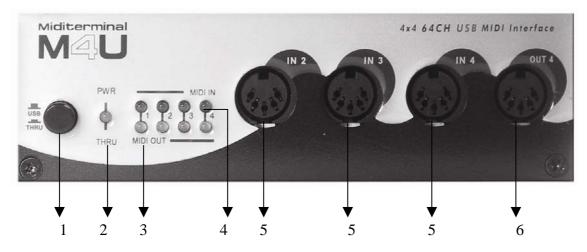
The M4U is a convenient 4 in 4 out, 64 channels, USB MIDI Interface for PC and Mac computers. With the M4U you can obtain perfect MIDI timing and performance at an extremely affordable price.

#### Features

- 4 In 4 Out MIDI (64 MIDI channels)
- perfect MIDI timing
- high-speed connection to USB-equipped PC or Macintosh computers
- MIDI-activity indicators for each port
- USB-powered; requires no external power supply
- compact 1/3 rack size
- exclusive MIDI driver for Windows XP, 2000, ME and 2003
- Mac OS X compatible

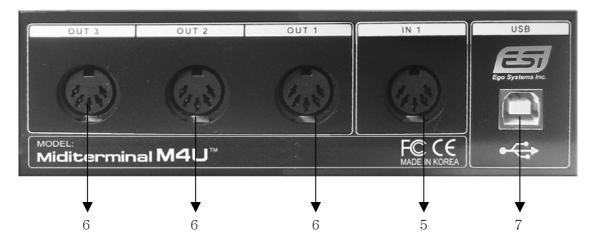


# 2. Description of Miditerminal M4U



#### **Front Panel**

#### **Rear Panel**



#### 1: USB/MIDI THRU switch

You select the operation mode here (USB or three kinds of MIDI Thru modes).

USB mode: When you select this mode, M4U will be working as a basic MIDI interface. This is the normal operation mode. MIDI signals from your sequencer applications will be sent out and can be recorded via the in and outputs of M4U. As indication for this mode, the PWR/THRU LED will become red color. If you push the button again, you can go to the THRU mode. If you want go back to the normal USB mode, push the button again.

- 2) THRU Mode 1: Input and Output ports will be matched by 1:1. For example, the MIDI data from Input 2 directly goes to Output 2. All LEDs will be turned on. After 2~3 seconds, LED will be turned off again. The PWR/THRU LED will become green color.
- 3) THRU Mode 2: The MIDI data from Input 4 goes to Output 1~4. LED Display Input 4 and Output 1~4 would be turned on. After 2~3 seconds, Output 1~4 will be turned off (Input 4 remains turned on). Output LED will be lit by the signal. The PWR/THRU LED will become green color.
- 4) THRU Mode 3: The MIDI data from Input 1 goes to Output 1~4. LED Display Input 1 and Output 1~4 would be turned on. After 2~3 seconds, Output 1~4 will be turned off (Input 1 remains turned on). Output LED will be lit by the signal. The PWR/THRU LED will become green color.

	Function	LED signal display
Normal	Basic MIDI interface	
THRU 1	I/O port matching (1:1)	All LEDs will be turned on
	$\circ \circ \circ \circ$	After 2~3 seconds, LED will be turned off
	$\bigcirc \bigcirc \bigcirc \bigcirc \bigcirc$	again, flickering according to the signal.
THRU 2	In 4 -> All MIDI Outputs	In 4, Out 1~4 display will be turned on
	$\circ \circ \circ \bullet$	After 2~3 seconds, Out 1~4 LED will be turn
	$\circ \circ \circ \circ$	off again (In 4 remains turned on), flickering
		according to the signal.
THRU 3	In 1 -> All MIDI Outputs	In 1, Out 1~4 display will be turned on
	$\bullet \circ \circ \circ$	After 2~3 seconds, Out 1~4 LED will be turn
	$\bigcirc \bigcirc \bigcirc \bigcirc \bigcirc$	off again (In 1 remains turned on), flickering
		according to the signal.

\* Three kinds of THRU modes are changed in sequence whenever the button is pushed in.

#### 2. PWR/THRU LED display

# \* Caution: THRU Mode only works when your computer is turned on. Even though the PWR/THRU LED display is lit, M4U does not work when your

computer is turned off.

3. MIDI OUT LED display indicator

4. MIDI IN LED display indicator

5: MIDI IN 1, 2, 3, 4 ports

6: MIDI OUT 1, 2, 3, 4 ports

7. USB connector

# 3. System Requirement

## 1) PC

## Windows XP, 2000, ME, 2003

- Intel Pentium III CPU or equivalent AMD CPU minimum

- Motherboard with Intel series chipsets or VIA chipsets recommended

- One available USB port

- More than 256MB of RAM

# 2) Mac

## Mac OS 10.1 or higher only

- Macintosh with G3 or better processor (except the original PowerBook G3)

- One available USB port

- More than 256MB of RAM

## \* Caution

1. We don't recommend using many other USB devices with the M4U via a USB hub at the same time. It may cause Input data lose.

2. Some old mainboards that are using a OHCI (open host controller interface) may cause problems.

**3.** Check our web site http://www.esi-pro.com occasionally for the most recent update information or technical issues.

# 4. Installation

# 1) Hardware Installation

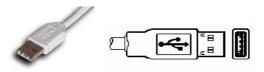
Before you begin, make sure you have read your computer's manual on installing USB devices. Your computer's manual should describe the precautions you should take. Shutting down computer wouldn't need for installing an USB device to the computer. However, we will take it from the start to make sure you can follow every detail of installation.

1. Find the USB port on your computer. The USB port looks like shown below. You can usually find it close to the PS/2 or serial ports on the back of a desktop computer system.



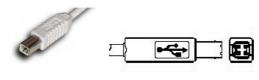
USB port on computer

2. Plug in the appropriate plug of the USB cable (so-called Series A plug) to the USB port of computer. You will notice that USB ports on computer and M4U are different.



Series A plug

3. Connect the other end of the USB cable (the Series B plug) to the USB port of M4U.



Series B plug

Turn on the computer. You will see that the LED displays of M4U are lit. The M4U get the power from the computer via USB cable so you don't need to attach any external power supply.

• Series A Plug is used for those devices on which the external cable is permanently attached like Mouse, Keyboard and USB hubs, etc.

• Series B Plug is for devices that require detachable external cables and so is used for devices like Printers, Scanners, Modems, Stand alone Hubs.

## 2) Exclusive driver Installation

#### 1. Windows XP/2003

Just plug the USB device, and Insert ESI installation CD into your CD-Rom drive. Go to ESI folder -> M4U folder And run M4U.exe.

#### 2. Windows 2000/ME

Don't plug the USB device before install the driver.

Otherwise, your system will be automatically rebooted.

1) Unplug the USB device from your system.

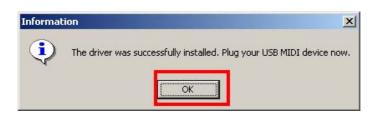
2) Run M4U.exe from your ESI Installation CD.

And click 'Yes' follow the instructions.

InstallShield Wizard		×
	Welcome to the InstallShield Wizard for M4U	
	The InstallShield® Wizard will install M4U on your computer. To continue, click Next.	
	< <u>B</u> ack <u>Next&gt;</u> Cancel	

stallShield Wizard	and the second	
License Agreement		
Please read the following license agreemen	t carefully.	
Press the PAGE DOWN key to see the rest	of the agreement.	
LICENSE: Use the program on a single machine and i machine-readable or printed form for backu the program on the single machine. Transfer the program and license to anothe agrees to accept the terms and conditions transfer the program, you must at the same copies, whether in machine readable or prin	ip or support of your use of er party if the other party of this Agreement. If you time either transfer all	* 
Do you accept all the terms of the precedin setup will close. To install M4U, you must a		eNo, the
tallShield		
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hoose Destination Location Select folder where Setup will install files. Setup will install M4U in the following folder. To install to this folder, click Next. To install another folder. Destination Folder D:\Program Files\ESI\M4U		6

With Windows 2000 and XP installations, a message might appear stating "The software has not passed Windows Logo testing to verify its compatibility with Windows XP." Though the message appeared, the driver is completely tested and verified by ESI and is safe to use. You can ignore the message and just click 'Yes'.



3) After finishing the driver installation, plug the USB device to your computer.



In the case of Windows 2000, you may see this message again. Simply ignore the message and just click 'Yes'.

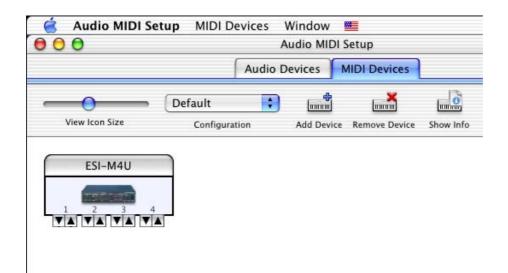


4) Go to 'My computer-> Control Panel -> Sounds and multimedia Properties -> Audio
-> MIDI tab. Select M4U as your playback device.

ounds and	l Multimedia Properties 🛛 🚺 🕹		
Sounds	Audio Hardware		
Sound	Playback		
	Preferred device:		
149V	No Playback Devices		
	Volume Advanced		
Sound	Recording		
	Preferred device:		
18	No Recording Devices		
	Volume Advanced		
	120mme - 14740000		
	lusic Playback		
	Pr <u>e</u> ferred device:		
	1-M4U MIDI		
	1-M4U MIDI 2-M4U MIDI		
	3-M4U MIDI		
	OK Cancel <u>A</u> pply		

## 3. Mac OS X

In Mac OS 10.1 or later, you can check if your M4U is recognized properly by using the Audio MIDI Setup application in Applications/Utilities folder. Launch the Audio MIDI Setup application and click the MIDI Devices tab on the Audio MIDI Setup window. If the M4U is recognized properly, the ESI-M4U icon will appear on the window.



# 5. Setting in Applications

\* This chapter only contains the basic setup for some of the software. For more detailed info, please refer to the manual of the software.

# 1) PC

#### Cubase SX

In Cubase, set input and output as M4U MIDI. See red circle of below picture.



#### Logic

In Logic, you can choose a port for a MIDI track in the instrument parameter box in Arrange Window.

In addition, go to 'Synchronisation' -> 'MIDI' and uncheck 'Transmit MIDI clock' for better performance.

Untitled Arra	inge					
(E) (E)		1	2	3	4	5
<ul> <li>✓ MIDI THRU</li> <li>Qua off (3840)</li> <li>Loop</li> <li>Transpose</li> <li>Velocity</li> <li>Dynamics</li> <li>Gate Time</li> <li>Delay</li> </ul>	1       R       Audio 1         2       R       Audio 2         3       R       Audio 3         4       R       Audio 4         5       R       1       Grand Piano         6       R       2       Fingered Bs.         7       R       3       HonkyTonkPno.         8       R       4       E. Piano1         9       R       5       Strings         10       R       6       Syn. Strings1         11       R       7       Vibraphone	Image: state				
GM Device 1         (Sub Channel)         Icon       No driver         1-M4U MIDI         Cha       2-M4U MIDI         Prg       3-M4U MIDI         Vol       4-M4U MIDI         Par       VSL2020 Mdi         Trans       Microsoft GS W/         Velocity       Lim       C-2         Cha       C-2       GE	12 M R R 8 Muted Gt. 13 M R 9 DrawOrgan M Drums Mapped 11 Clavinet 12 Pizzicato Str 13 Brass 1 14 Flute	H         H           2         2				
VLim 0127 Delay No Seq Trp No Reset	22 P P WWWAVE 23 P P A MIDI Click					

## Sonar

After launching Sonar, Go to Option -> MIDI devices setting and Select USB Audio Device.

MIDI Devices			
Click on devices to select or deselect M Inputs:	IIDI inputs and outputs. Outputs:		ОК
1-M4U MIDI	1-M4U MIDI	~	Cancel
2-M4U MIDI	2-M4U MIDI		
3-M4U MIDI	3-M4U MIDI		Help
4-M4U MIDI	4-M4U MIDI		
	2	~	
✓ Warn about no MIDI devices.	Move Selected Device	es to <u>T</u> op	

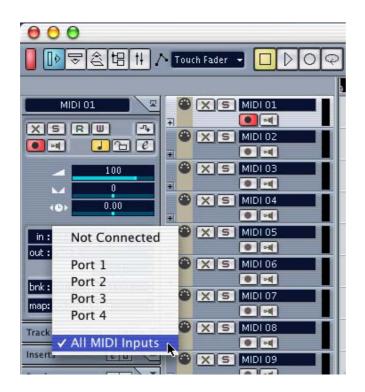
# **2) Mac**

As long as the M4U is recognized by Mac OS X with no problem, all the applications that support CoreMIDI should work fine with the M4U. Here are some examples of how to change application settings for using the M4U.

#### Cubase SX

In Cubase, expand the MIDI section in the Inspector by clicking its tab.





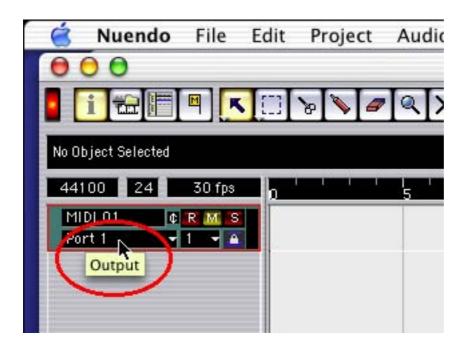
In this section, you can choose a port (or all ports) for MIDI input.

In addition, you can choose a port for MIDI output.



#### Nuendo

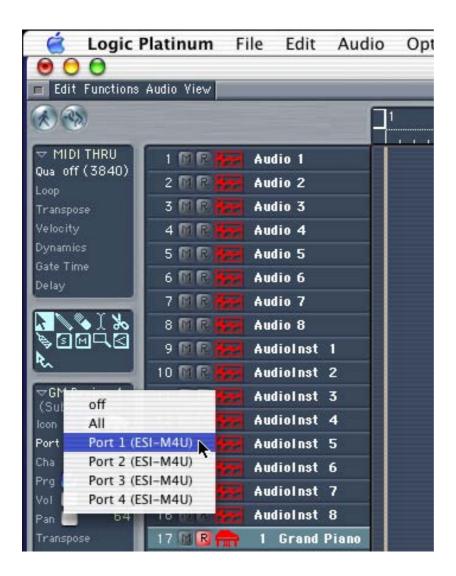
In Nuendo, you can choose a port for a MIDI track in the Track List area.





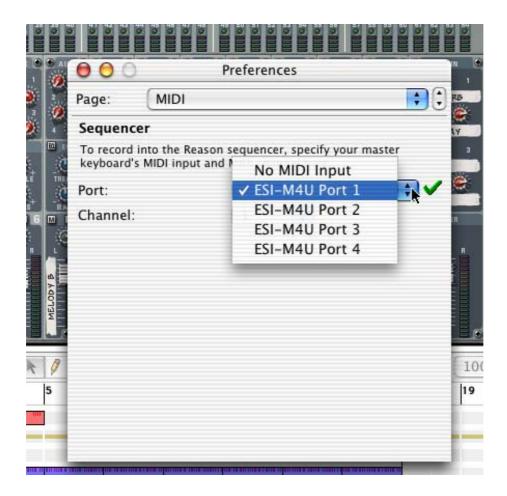
## Logic

In Logic, you can choose a port for a MIDI track in the instrument parameter box in Arrange Window.



# Reason

In Reason, open the Preferences window and you can choose a port for MIDI input in the MIDI Page.



\* Parts of this manual are continually being updated. Please check our web site www.esi-pro.com occasionally for the most recent update information.