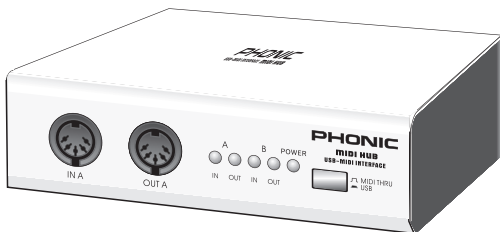


# PHONIC

## MIDI Hub

2x2 MIDI INTERFACE



English

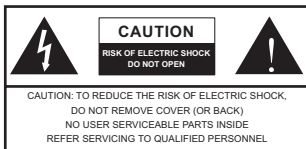
User's Manual

## IMPORTANT SAFETY INSTRUCTIONS

The apparatus shall not be exposed to dripping or splashing and that no objects filled with liquids, such as vases, shall be placed on the apparatus. The MAINS plug is used as the disconnect device, the disconnect device shall remain readily operable.

**Warning:** the user shall not place this apparatus in the confined area during the operation so that the mains switch can be easily accessible.

1. Read these instructions before operating this apparatus.
2. Keep these instructions for future reference.
3. Heed all warnings to ensure safe operation.
4. Follow all instructions provided in this document.
5. Do not use this apparatus near water or in locations where condensation may occur.
6. Clean only with dry cloth. Do not use aerosol or liquid cleaners. Unplug this apparatus before cleaning.
7. Do not block any of the ventilation openings. Install in accordance with the manufacturer's instructions.
8. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
9. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong is provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
10. Protect the power cord from being walked on or pinched particularly at plug, convenience receptacles, and the point where they exit from the apparatus.
11. Only use attachments/accessories specified by the manufacturer.
12. Use only with a cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.
13. Unplug this apparatus during lightning storms or when unused for long periods of time.
14. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.



The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

**WARNING:** To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture.

**CAUTION:** Use of controls or adjustments or performance of procedures other than those specified may result in hazardous radiation exposure.



# MIDI Hub

2x2 MIDI INTERFACE

## USER'S MANUAL

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### **SAFETY INSTRUCTIONS**

1. Read all instructions carefully before using MIDI Hub.
2. Keep this user's manual for future reference.
3. Please carefully follow all instructions.
4. You should use properly functioning cables in good repair to connect all devices to MIDI Hub.
5. Do not try to service this product yourself. If servicing is required, contact your local service center.

### **INTRODUCTION**

Thank you for purchasing MIDI Hub, a two input/two output MIDI USB interface with MIDI throughput. MIDI Hub requires no installation because it uses a super-fast USB connection to join your MIDI devices, like synthesizers and rhythm machines, with sequencer software on your computer. Each port offers 16 MIDI channels, for a total of 32 MIDI input channels and 32 MIDI output channels. MIDI Hub features true plug-'n-play compatibility without the need to configure IRQ, I/O addresses or DMA channels. Ease of use, power and portability all combine to make MIDI Hub a robust tool for aspiring electronic musicians and anyone who uses MIDI.

## **BOX CONTENTS**

MIDI Hub USB MIDI Interface

One standard USB cable

User's Manual

## **FEATURES**

USB 1.1 MIDI interface (compatible with most PC and Mac computers)

Two inputs

Two outputs

32 MIDI input channels

32 MIDI output channels

Input/Output signal indicators

"MIDI Thru" button allows throughput even when MIDI Hub is not turned on

USB bus powering

No drivers required to operate

Compact and lightweight

Optional power adapter

## **SYSTEM REQUIREMENTS**

### **Windows**

Microsoft® Windows® XP

Available USB port

Intel Pentium® III processor or equivalent AMD processor

Motherboard with Intel or VIA chipset

UDMA 66/100 7200rpm hard disk drive

256 MB or more of RAM

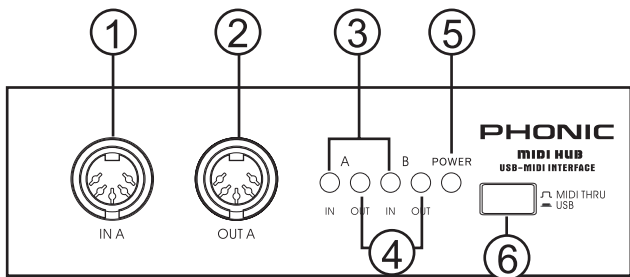
### **Macintosh**

OS X 10.x or later with native USB support

G3 or newer processor (excluding the original PowerBook G3)

256 MB or more of RAM

**Note:** MIDI Hub may have problems interfacing properly with computers that have older motherboards that use OHCI (open host controller interface).



## FRONT PANEL DESCRIPTION

### 1) MIDI In A Port

This is a standard MIDI port. It accepts input from MIDI devices using a 5-pin MIDI DIN connector.

### 2) MIDI Out A Port

This is a standard MIDI port. It outputs to MIDI devices using a 5-pin MIDI DIN connector.

### 3) MIDI Input LED Indicators

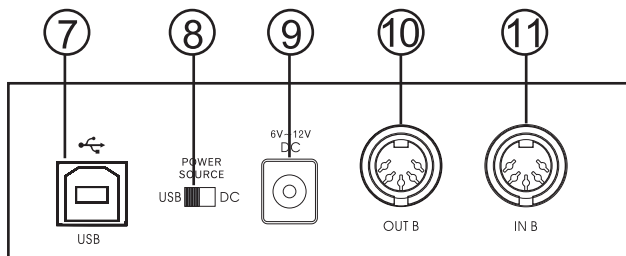
### 4) MIDI Output LED Indicators

### 5) Power Indicator

The LED will illuminate to indicate that MIDI Hub is powered on and ready to send and receive signals. The computer must be turned on and MIDI Hub must be connected to a properly functioning USB port on the computer.

### 6) USB/MIDI Thru Switch

Leave this switch out to operate in MIDI Thru mode. Press this switch in to operate in USB mode. MIDI Thru mode matches corresponding input and output ports. For example, signals going into 'IN A' will come out of 'OUT A'. The computer does not need to be turned on to use the MIDI Thru function.



## REAR PANEL DESCRIPTION

### 7) USB Port

Connect one end of the supplied USB cable here and the other end to one of the computer's available USB ports.

### 8) Power Source Switch

To power MIDI Hub from an external power source, connect a DC power adapter and move this switch to the DC position. When the device is connected to the USB port of an active computer, turn the switch to USB to power MIDI Hub from the USB connection. This switch gives the users the option of powering the MIDI Hub from an external power supply while operating with a laptop, thus allowing the user to save the laptop's battery power.

### 9) DC Power Jack

The DC power jack is for powering MIDI Hub with an external DC power adapter. Please use a DC power adapter with a 6-12V, 300mA-1A power output. (DC power adapter sold separately.)

### 10) MIDI Out B Port

This is a standard MIDI port. It outputs to MIDI devices using a 5-pin MIDI DIN connector.

### 11) MIDI In B Port

This is a standard MIDI port. It accepts input from MIDI devices using a 5-pin MIDI DIN connector.



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## INSTALLATION

- 1) Leave all MIDI IN and OUT ports disconnected until installation is complete.
- 2) Connect the Series A end of the USB cable to a USB port on the computer.
- 3) Connect the Series B end of the USB cable to the USB port on MIDI Hub.

**Note:** If you need a longer USB cable they are available for purchase at most computer and office supply stores. However, do not use a USB hub to extend the length of the USB cable. It may cause problems and loss of data. Use only a single cable between MIDI Hub and the computer.

## OPERATING SYSTEM SETUP

There is no need to install drivers for MIDI Hub. It works with the core audio driver in Microsoft® Windows® and Apple® Macintosh® computers. However, please note under "System Requirements" that MIDI Hub does not work with all operating systems.

### Windows XP

To confirm that MIDI Hub has been installed correctly, go to 'Control Panel' and double-click on 'System'. The 'System Properties' box will open. Select the 'Hardware' tab, and then click the button under 'Device Manager'. The 'Device Manager' box will open. Single-click the plus sign (+) next to 'Sound, video and game controllers' to expand the selection and double-click 'USB Audio Device'. The 'USB Audio Device Properties' box will open. Next to 'Location:' it should read 'USB Device'.

### Mac OS X

To confirm that MIDI Hub has been correctly installed in Mac OS X 10.2 (Jaguar) or later, go to the 'Applications/Utilities' folder and open the 'Audio MIDI Setup' application. When the 'Audio MIDI Setup' window opens, select the 'MIDI Devices' tab. The 'USB Device' icon should appear in the window.

## SOFTWARE SETUP

This section only contains basic MIDI software setup. For more detailed information on how to setup MIDI Hub to work with your software, please refer to the software's manual.

### Windows

#### Cubase SX

Find the 'in.' and 'out.' drop-down boxes on the left side of the application window halfway down. Click on the arrow to the right of each box and select 'USB Audio Device'. Do this operation for both boxes.

#### Giga Studio

To set the inputs and outputs as 'USB Audio Device' select the 'Hardware/Routing' tab, and in the 'Midi In to MIDI Out Mapping' section confirm the settings under 'Midi In Ports'.

#### Logic

You have the option to select a port for a MIDI track and to choose whether or not to transmit the MIDI clock. To select a port for a MIDI track open the 'Arrange' window and select the MIDI track you want in the instrument parameter box.

For better performance, uncheck 'Transmit MIDI clock' under 'MIDI' in 'Synchronisation'.

#### Reason

Open 'Edit', then select 'Preferences' and 'MIDI'. Under 'Sequencer' select 'USB Audio Device' from the 'Port' drop-down box.

#### Sonar

Select 'Options' and click on 'MIDI Devices'. Under 'Inputs' and 'Outputs' highlight all 'USB Audio Device' selections and click 'OK'.

## Mac

### Cubase SX

Click on the arrow next to 'MIDI 01' in the Inspector section to expand it. Find the 'in:' and 'out:' drop-down boxes on the left side of the application window halfway down. Click on the arrow to the right of the 'in:' box to select 'Port 1', 'Port 2' or 'All MIDI Inputs'. Click on the arrow to the right of the 'out:' box to select 'Port 1' or 'Port 2'.

### Logic

To select a port for a MIDI track open the 'Arrange' window and select the MIDI track you want in the instrument parameter box.

### Nuendo

In the Track List area, select 'Port 1' or 'Port 2' from the drop-down box under 'MIDI 01'.

### Reason

Open the 'Preferences' window and select the 'MIDI' page. Under 'Sequencer' select 'Port 1' or 'Port 2' from the 'Port' drop-down box.

## TROUBLESHOOTING

### 1) I cannot send or receive large amounts of system exclusive (SYSEX) data.

Make the SYSEX data buffer size larger than the amount of data you want to handle. If you cannot change the SYSEX data buffer size, you can install Cakewalk, Sonar or MIDI-OX. You can download a trial version of MIDI-OX at [www.midiox.com](http://www.midiox.com).

### Cakewalk/Sonar

After installing Cakewalk or Sonar, find the folder 'Cakewalk' in the 'Program Files' directory on the computer's (C:) drive. Open the file 'TSSEQ.INI'. Start a new line at the bottom and type "SysxSendPacketSize=n", where "n" stands for a number you select as the buffer size. (Make sure that the buffer size is larger than the Send/Receive data.) Save the file and restart the program.

### MIDI-OX

After installing MIDI-OX, go to 'View', then 'Sysex' and select 'Configure'. Set the 'Low Level Input Buffers' and 'Low Level Output Buffers' so that the buffer size is larger than the Send/Receive data. You may not need to set the input buffer size.

## **TO PURCHASE ADDITIONAL PHONIC GEAR AND ACCESSORIES**

To purchase Phonic gear and optional accessories, contact any authorized Phonic distributor. For a list of Phonic distributors please visit our website at [www.phonic.com](http://www.phonic.com) and click on Get Gear. You may also contact Phonic directly and we will assist you in locating a distributor near you.

## **SERVICE AND REPAIR**

For replacement parts, service and repairs please contact the Phonic distributor in your country. Phonic does not release service manuals to consumers, and advice users to not attempt any self repairs, as doing so voids all warranties. You can locate a dealer near you at <http://www.phonic.com/where/>.

## **WARRANTY INFORMATION**

Phonic stands behind every product we make with a no-hassles warranty. Warranty coverage may be extended, depending on your region. Phonic Corporation warrants this product for a minimum of one year from the original date of purchase against defects in material and workmanship under use as instructed by the user's manual. Phonic, at its option, shall repair or replace the defective unit covered by this warranty. Please retain the dated sales receipt as evidence of the date of purchase. You will need it for any warranty service. No returns or repairs will be accepted without a proper RMA number (return merchandise authorization). In order to keep this warranty in effect, the product must have been handled and used as prescribed in the instructions accompanying this warranty. Any tempering of the product or attempts of self repair voids all warranty. This warranty does not cover any damage due to accident, misuse, abuse, or negligence. This warranty is valid only if the product was purchased new from an authorized Phonic dealer/distributor. For complete warranty policy information, please visit <http://www.phonic.com/warranty/>.

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