H2MIDI PRO
USER MANUAL V01

Hello, thank you for purchasing CME's professional products!

Please read this manual completely before using this product. The pictures in the manual are for illustration purposes only, the actual product may vary. For more technical support content and videos, please visit this page: www.cme-pro.com/support/

IMPORTANT

- **Warning**

  Improper connection may result in damage to the device.

- **Copyright**

- **Limited Warranty**

CME provides a one-year standard Limited Warranty for this product only to the person or entity that originally purchased this product from an authorized dealer or distributor of CME. The warranty period starts on the date of purchase of this product. CME warrants the included hardware

against defects in workmanship and materials during the warranty period. CME does not warrant against normal wear and tear, nor damage caused by accident or abuse of the purchased product. CME is not responsible for any damage or data loss caused by improper operation of the equipment. You are required to provide proof of purchase as a condition of receiving warranty service. Your delivery or sales receipt, showing the date of purchase of this product, is your proof of purchase. To obtain service, call or visit the authorized dealer or distributor of CME where you purchased this product. CME will fulfill the warranty obligations according to local consumer laws.

- Safety Information

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

- Do not connect the instrument during thunder.
- Do not set up the cord or outlet to a humid place unless the outlet is specially designed for humid places.
- If the instrument needs to be powered by AC, do not touch the bare part of the cord or the connector when the power cord is connected to the AC outlet.
- Always follow the instructions carefully when setting up the instrument.
- Do not expose the instrument to rain or moisture, to avoid fire and/or electrical shock.
- Keep the instrument away from electrical interface sources, such as fluorescent light and electrical motors.
- Keep the instrument away from dust, heat, and vibration.
- Do not expose the instrument to sunlight.

- Do not place heavy objects on the instrument; do not place containers with liquid on the instrument.
- Do not touch the connectors with wet hands

PACKING LIST

1. H2MIDI PRO INTERFACE
2. USB cable
3. Quick Start Guide

INTRODUCTION

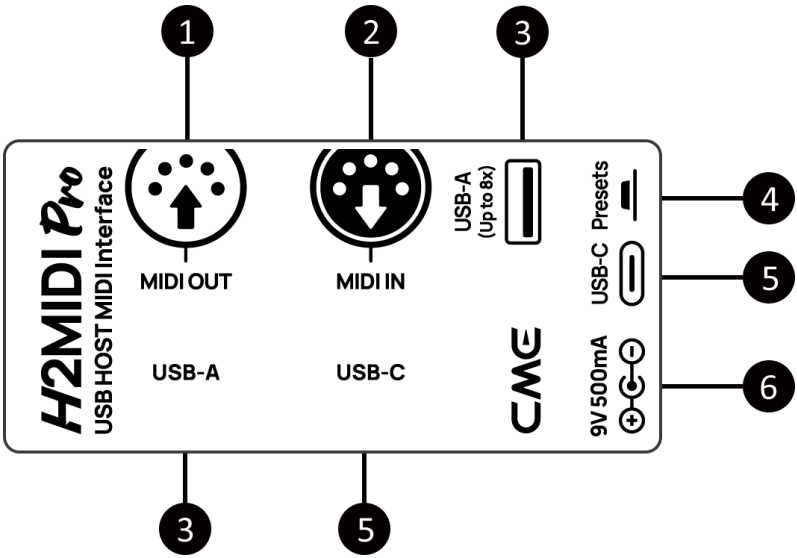
H2MIDI PRO is a USB dual-role MIDI interface which can be used as a USB host to independently connect plug-and-play USB MIDI devices and 5-pins DIN MIDI devices for bidirectional MIDI transmission. At the same time, it can also be used as a plug-and-play USB MIDI interface to connect any USB-equipped Mac or Windows computer, as well as iOS devices or Android devices (via USB OTG cable).

It provides 1 USB-A host port (supports up to 8-in-8-out USB host ports through USB Hub), 1 USB-C client port, 1 MIDI IN and 1 MIDI OUT standard 5-pins DIN MIDI ports. It supports up to 128 MIDI channels.

H2MIDI PRO comes with the free software HxMIDI Tool (available for macOS, iOS, Windows and Android). You can use it for firmware upgrades, as well as set up MIDI splitting, merging, routing, mapping and filtering settings. All settings will be automatically saved in the interface, making it easy to use standalone without connecting a computer. It can be powered by

a standard USB power supply (bus or power bank) and a DC 9V power supply (sold separately).

H2MIDI PRO uses the latest 32-bit high-speed processing chip, which enables fast transmission speeds over USB to meet the throughput of large data Messages and to achieve the best latency and accuracy on sub millisecond level. It connects to all MIDI devices with standard MIDI sockets, as well as USB MIDI devices that meet the plug-and-play standard, such as: synthesizers, MIDI controllers, MIDI interfaces, keytars, electric wind instruments, v-accordions, electronic drums, electric pianos, electronic portable keyboards, audio interfaces, digital mixers, etc.



❶ 5-pins DIN MIDI output port and indicator

- The MIDI OUT port is used to connect to the MIDI IN port of a standard MIDI device and send MIDI messages.

- The green indicator light will stay on when the power is on. When sending messages, the indicator light of the corresponding port will flash rapidly.

❷ 5-pins DIN MIDI input port and indicator

- The MIDI IN port is used to connect to the MIDI OUT or MIDI THRU port of a standard MIDI device and receive MIDI messages.
- The green indicator light will stay on when the power is on. When receiving Messages, the indicator light of the corresponding port will flash rapidly.

❸ USB-A (Up to 8x) host port and indicator

The USB-A host port is used to connect standard USB MIDI devices that are plug-and-play (USB class compliant). Supports up to 8-in-8-out from the USB host port through a USB hub (if the connected device has multiple USB virtual ports, it is calculated based on the number of ports). The USB-A port can distribute power from the DC or USB-C port to the connected USB devices, with a maximum current limit of 5V-500mA. The USB host port of H2MIDI PRO can be used as a stand-alone interface without a computer.

Please note: *When connecting multiple USB devices through a non-powered USB hub, please use a high-quality USB adapter, USB cable and DC power supply adapter to power the H2MIDI Pro, Otherwise, the device may malfunction due to unstable power supply.*

Please note: *If the total current of USB devices connected to the USB-A host port exceeds 500mA, please use a self-powered USB hub to power the connected USB devices.*

- Connect the plug-and-play USB MIDI device to the USB-A port via a USB cable or USB hub (please purchase the cable according to the device specifications). When the connected USB MIDI device is powered on, the H2MIDI PRO will automatically identify the device name and the corresponding port, and automatically route the identified port to the 5-pins DIN MIDI port and the USB-C port. At this time, the connected USB MIDI device can perform MIDI transmission with other connected MIDI devices.

Note 1: If H2MIDI PRO cannot recognize the connected device, it may be a compatibility issue. Please contact support@cme-pro.com to get technical support.

Note 2: If you need to change the routing configuration between connected MIDI devices, connect your computer to the USB-C port of the H2MIDI PRO and reconfigure using the free HxMIDI Tools software. The new configuration will be automatically stored in the interface.

- When the USB-A port receives and sends MIDI messages, the USB-A green indicator will flash accordingly.

❹ Presets button

- H2MIDI PRO comes with 4 user presets. Each time the button is pressed in the power on state, the interface will switch to the next preset in a cyclic order. All LEDs flash the same number of times corresponding to the preset number to indicate the currently selected preset. For example, if switched to Preset 2, the LED flashes twice.
- Also when the power is on, press and hold the button for more than 5 seconds and then release it, and H2MIDI PRO will be reset to its factory default state.
- The free HxMIDI Tools software can also be used to toggle the button to send an "All Notes Off" message to all outputs for 16 MIDI channels,

eliminating unintentional hanging notes from external devices. Once this function has been set up, you can quickly click the button while the power is on.

❺ USB-C client port and indicator

The H2MIDI PRO has a USB-C port for connecting to a computer to transmit MIDI data or connecting to a standard USB power supply (such as a charger, power bank, computer USB socket, etc.) with a voltage of 5 volts for standalone use.

- When used with a computer, directly connect the interface to the USB port of the computer with the matching USB cable or through a USB Hub to start using the interface. It is designed for plug-and-play, no driver is required. The USB port of the computer can power H2MIDI PRO. This interface features 2-in-2-out USB virtual MIDI ports. H2MIDI PRO may be displayed as different device names on different operating systems and versions, such as "H2MIDI PRO" or "USB audio device", with the port number 0/1 or 1/2, and the words IN/OUT.

  MacOS

MIDI IN device name	MIDI OUT device name
H2MIDI PRO Port 1	H2MIDI PRO Port 1
H2MIDI PRO Port 2	H2MIDI PRO Port 2

  Windows

MIDI IN device name	MIDI OUT device name
H2MIDI PRO	H2MIDI PRO
MIDIIN2 (H2MIDI PRO)	MIDIOUT2 (H2MIDI PRO)

- When used as a standalone MIDI router, mapper and filter, connect the

interface to a standard USB charger or power bank via the matching USB cable and started to use.

***Note**: Please choose a power bank with Low Current Charging mode (for Bluetooth earbuds or smart bracelets, etc.) and does not have an automatic power-saving function.*

- When the USB-C port receives and sends MIDI messages, the USB-C green indicator will flash accordingly.

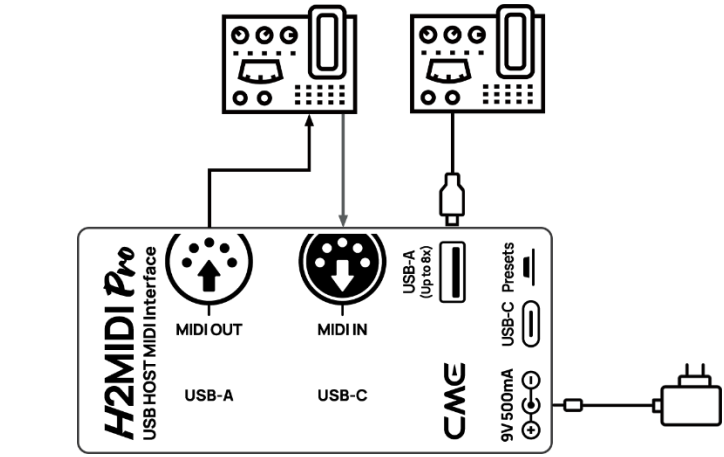
❻ DC 9V power outlet

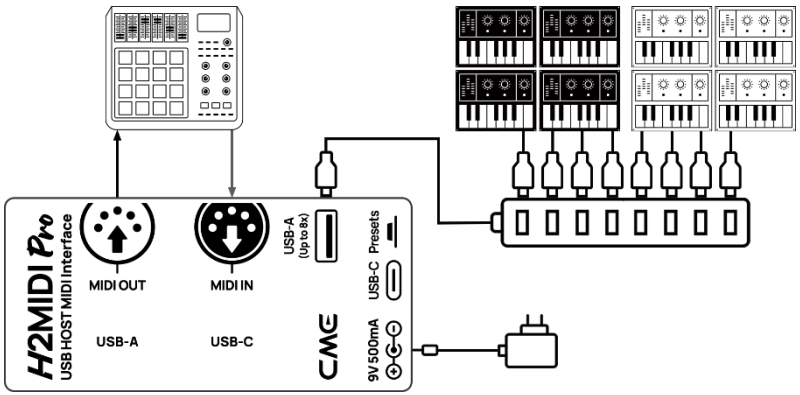
You can connect a 9V-500mA DC power adapter to power the H2MIDI PRO. This is designed for the convenience of guitarists, allowing the interface to be powered by the pedalboard power source, or when the interface is used as a standalone device, such as a MIDI router, where the power source other than USB is more convenient. The power adapter is not included in the H2MIDI PRO package, please purchase it separately if needed.

❗ *Please choose a power adapter with a positive terminal on the outside of the plug, a negative terminal on the inner pin, and an outer diameter of 5.5 mm.*

WIRED MIDI CONNECTION

- **Use H2MIDI PRO to connect an external USB MIDI device to a MIDI device**





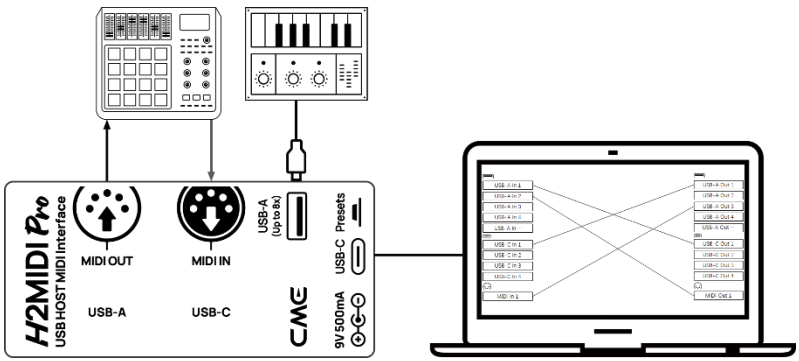
1. Connect a USB or 9V DC power source to the device.
2. Use your own USB cable to connect your plug-and-play USB MIDI device to the USB-A port of H2MIDI PRO. If you want to connect multiple USB MIDI devices at the same time, please use a USB Hub.
3. Use a MIDI cable to connect the MIDI IN port of the H2MIDI PRO to

the MIDI Out or Thru port of other MIDI device, and connect the MIDI OUT port of the H2MIDI PRO to the MIDI IN of other MIDI device.

4. When the power is on, the LED indicator of H2MIDI PRO will light up, and you can now send and receive MIDI messages between the connected USB MIDI device and MIDI device according to the preset signal routing and parameter settings.

Note : *H2MIDI PRO has no power switch, you just need to power it on to start working.*

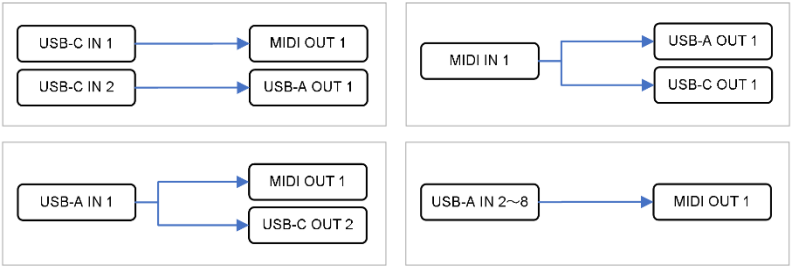
- **Use H2MIDI PRO to connect an external MIDI device to your computer**



- Use the provided USB cable to connect the H2MIDI PRO to the USB port of your computer. Multiple H2MIDI PROs can be connected to a computer via a USB Hub.
- Use a MIDI cable to connect the MIDI IN port of the H2MIDI PRO to the MIDI Out or Thru of other MIDI device, and connect the MIDI OUT port of the H2MIDI PRO to the MIDI IN of other MIDI device.
- When the power is on, the LED indicator of H2MIDI PRO will light up

and the computer will automatically detect the device. Open the music software, set the MIDI input and output ports to H2MIDI PRO on the MIDI settings page, and get started. See the manual of your software for further details.

- **H2MIDI PRO Initial signal flow chart:**



Note: *The above signal routing can be customized by using the free HxMIDI TOOLS software, please refer to the [Software Settings] section of this manual for details.*

USB MIDI CONNECTION SYSTEM REQUIREMENTS

Windows：

- Any PC computer with a USB port.
- Operating System: Windows XP (SP3) / Vista (SP1) / 7 / 8 / 10 / 11 or later.

Mac OS X:

- Any Apple Mac computer with a USB port.
- Operating System: Mac OS X 10.6 or later.

iOS：

- Any iPad, iPhone, iPod Touch. To connect to models with a Lightning port, you need to purchase the Apple Camera Connection Kit or Lightning to USB Camera Adapter separately.
- Operating system: Apple iOS 5.1 or later.

Android：

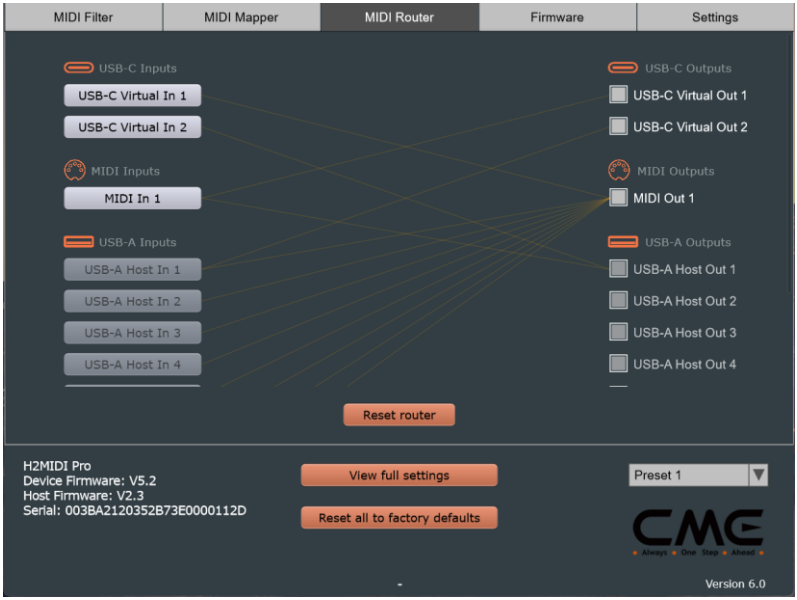
- Any tablet and phone with a USB data port. You may need to purchase a USB OTG cable separately.
- Operating system: Google Android 5 or later.

SOFTWARE SETTINGS

Please visit: www.cme-pro.com/support/ to download the free HxMIDI Tools software (compatible with macOS X, Windows 7 - 64bit or higher, iOS, Android) and the user manual. You can use it to upgrade the firmware of your H2MIDI PRO at any time to get the latest advanced features. At the same time, you can also perform a variety of flexible settings. All router, mapper and filter settings will be automatically saved to the internal memory of the device.

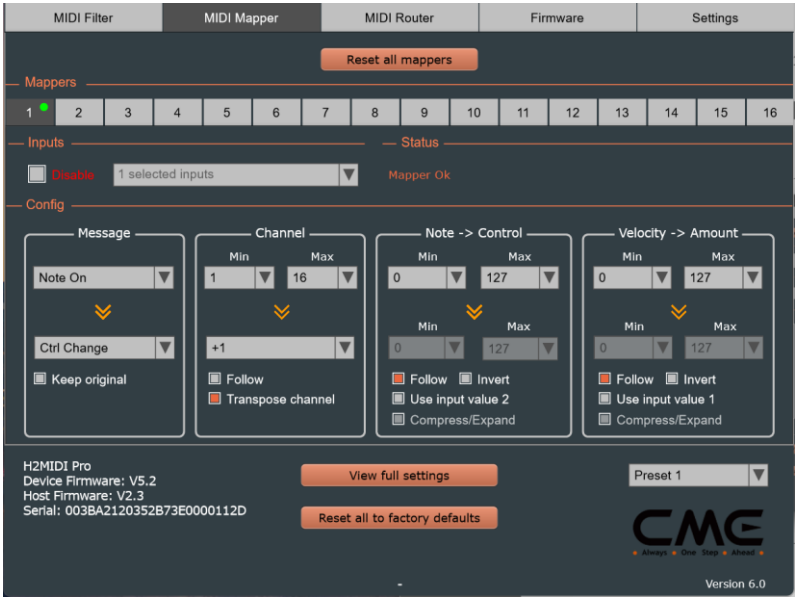
1. MIDI Router Settings

The MIDI router is used to view and change the signal flow of MIDI Messages in your H2MIDI PRO hardware.



2. MIDI Mapper Settings

The MIDI mapper is used to reassign (remap) the selected input data of the connected device so that it can be output according to custom rules that are defined by you.



3. MIDI Filter settings

The MIDI filter is used to block certain types of MIDI messages in a selected input or output from passing through.

4. View full settings & Reset all to factory defaults

The View Full settings button is used to view the filter, mapper, and router settings for each port of the current device - in one convenient overview.

The Reset all to factory defaults button is used to reset all parameters of the unit to the default state when the product leaves the factory.

5. Firmware upgrade

When your computer is connected to the internet, the software automatically detects whether the currently connected H2MIDI PRO hardware is running the latest firmware and requests an update if necessary. If the firmware cannot be updated automatically, you can manually update it on the Firmware page.

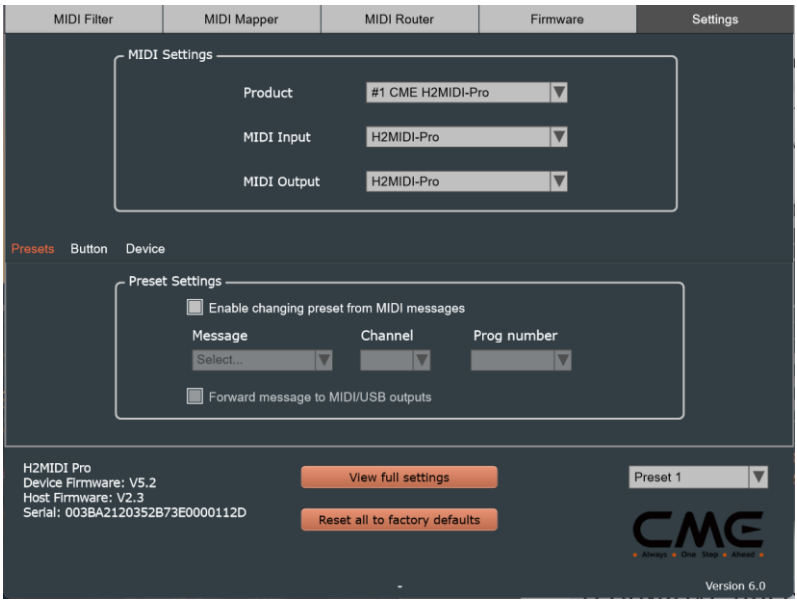
Note: *It is recommended to restart H2MIDI PRO every time after upgrading to a new firmware version.*

6. Settings

The Settings page is used to select the CME USB Host MIDI hardware device model and port to be set up and operated by the software. When a new device is connected to your computer, use the [Rescan MIDI] button to rescan the newly connected CME USB Host MIDI hardware device so that it

appears in the drop-down boxes for Product and Ports. If you have multiple CME USB Host MIDI hardware devices connected at the same time, please select the product and port you want to set up here.

You can also enable remote switching of user presets via MIDI note, program change, or control change message in the Presets settings area.



TECHNICAL SPECIFICATIONS:

Technology	USB host and client, all compliant with USB MIDI class (plug and play)
Connectors	1x USB-A (Host), 1x USB-C (Client） 1x 5-pins DIN MIDI input and output

	1x DC power socket (External 9V-500mA DC adapter not included)
Indicator Lights	4x LED indicators
Button	1x button for presets and other function
Compatible devices	Device with plug-and-play USB MIDI socket, or standard MIDI socket (including 5V and 3.3V compatibility) Computer and USB MIDI host device which supports USB MIDI plug-and-play
Compatible OS	macOS, iOS, Windows, Android, Linux and Chrome OS
MIDI messages	All messages in the MIDI standard, including notes, controllers, clocks, sysex, MIDI timecode, MPE
Wired transmission	Close to Zero Latency and Zero Jitter
Power supply	USB-C socket. Powered via standard 5V USB bus or charger DC 9V-500mA Socket (5.5mm x 2.1mm), polarity is positive outside and negative inside The USB-A socket provides power to connected devices*. * The maximum output current is 500mA.
Configuration & firmware upgrades	Configurable/Upgradable via USB-C port using HxMIDI Tool software (Win/Mac/iOS & Android tablets through USB cable)
Power consumption	281 mWh
Size	75mm(L) x 38mm(W) x 33mm(H). 2.95 in (L) x 1.50 in (W) x 1.30 in (H)
Weight	59 g / 2.08 oz

Specifications subject to change without notice.

FAQ

- **The LED light of H2MIDI PRO does not light up.**

- Please check whether the USB socket of the computer is powered, or the power adapter is powered.
- Please check if the USB power cable is damaged, or the polarity of the DC power supply is wrong.
- When using a USB power bank, please choose a power bank with Low Current Charging mode (for Bluetooth earbuds or smart bracelets, etc.) and does not have an automatic power-saving function.

- **H2MIDI PRO does not recognize the connected USB device.**

- H2MIDI PRO can only recognize plug-and-play USB MIDI class-compliant standard devices. It cannot recognize other USB MIDI devices that require drivers to be installed on the computer or general USB devices (such as USB flash drives, mice, etc.).
- When the total number of connected device ports exceeds 8, H2MIDI PRO will not recognize the excess ports.
- When H2MIDI PRO is powered by DC, if the total power consumption of the connected devices exceeds 500mA, please use a powered USB hub or independent power supply to power the external devices.

- **The computer does not receive MIDI messages when playing a MIDI keyboard.**

- Please check if the H2MIDI PRO is correctly selected as the MIDI input device in your music software.
- Please check if you ever set up custom MIDI routing or filtering through the HxMIDI Tools software. You can try to press and hold the

button for 5 seconds in the power-on state and then release it to reset the interface to the factory default state.

- **The external sound module is not responding to MIDI messages played by the computer.**

- Please check if the H2MIDI PRO is correctly selected as the MIDI output device in your music software.
- Please check if you ever set up custom MIDI routing or filtering through the HxMIDI Tools software. You can try to press and hold the button for 5 seconds in the power-on state and then release it to reset the interface to the factory default state.

- **The sound module connected to the interface has long or disordered notes.**

- This problem is most likely caused by MIDI loopbacks. Please check if you have set up custom MIDI routing via the HxMIDI Tools software. You can try to press and hold the button for 5 seconds in the power-on state and then release it to reset the interface to the factory default state.

CONTACT

Email: support@cme-pro.com

Web page: www.cme-pro.com