H12MIDI PRO
USER MANUAL V07

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**

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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. H12MIDI PRO interface
2. USB-C to USB-C cable
3. Quick Start Guide

INTRODUCTION

H12MIDI PRO is a high-speed USB dual-role TRS MIDI interface that can be used as a USB Host to independently connect plug-and-play USB MIDI devices and TRS MIDI devices (selectable Type-A/B) for bidirectional MIDI transmission. At the same time, It can also works as a plug-and-play USB client MIDI interface to connect to any USB-equipped Mac or Windows computer, as well as iOS or Android devices.

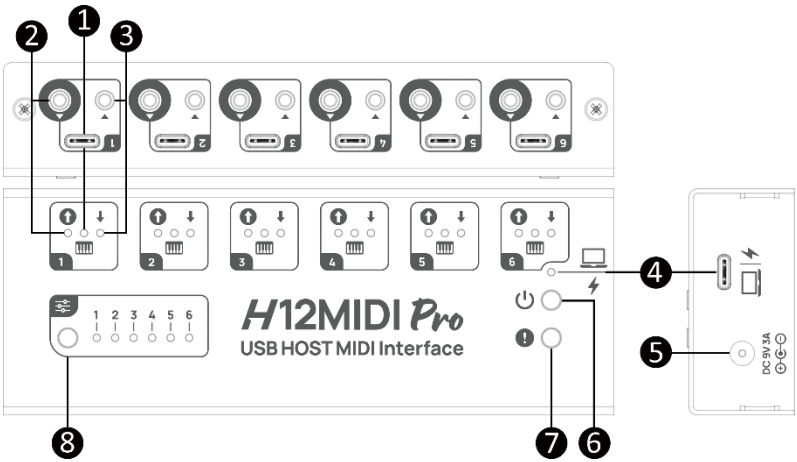
It features 6 USB-C Host ports (supports 16 in and 16 out via USB Hub), 1 USB-C client port (supports 8 in and 8 out), 6 3.5mm (1/8") standard TRS MIDI IN and OUT ports (selectable Type A/B). It supports up to 480 MIDI channels.

H12MIDI PRO comes with free HxMIDI Tools software (available for macOS, iOS, Windows, Android, and Linux Ubuntu versions). You can use it for firmware upgrades, as well as setting 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 (The current range is from a minimum of 500 mA to a maximum of 3 A, depending on connected USB devices, sold separately).

H12MIDI PRO uses the latest 32-bit high-speed processing chip, which enables USB fast transmission speeds over USB to meet the throughput of large data MIDI messages and the best latency and accuracy on sub milliseconds level. It connects to all MIDI devices with standard MIDI ports, as well as USB MIDI devices that meet the plug-and-play standard, such as: synthesizers, MIDI controllers, MIDI interfaces, keytars, Electronic wind instruments, v-accordions, electronic drums, electronic pianos, electronic portable keyboards, audio interfaces, digital mixers, etc.

The H12MIDI Pro can add Bluetooth MIDI functionality by connecting an external CME WIDI Uhost (USB-C) or WIDI Jack (TRS MIDI). Please refer to the CME website for details.



❶ USB-C Host ports 1~6 and indicator lights

These 6 USB-C Host ports marked with a music keyboard icon, can be used to connect plug-and-play (USB MIDI class compatible) standard USB MIDI devices. This interface supports up to 16 USB Host ports via a USB hub (counted as the number of ports if the connected device has multiple USB virtual ports). The USB-C Host port distributes power from the DC or USB-C client port to the connected USB device with a maximum current limit of 5V-500mA per port (USB 2.0 standard) and a sum of 5V-3A for the 6 ports. The USB Host port can be used independently 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 adapter to power the H12MIDI PRO, otherwise the device may malfunction due to unstable power supply.*

❗ *Note: If the total current of the USB device connected to the USB-C Host port exceeds 3A, please use a self-powered USB hub to power the connected USB device.*

- Connect the plug-and-play USB MIDI device to the USB-C Host port via a USB cable or USB hub (please purchase the cable according to the device specifications). When a connected USB MIDI device is powered on, H12MIDI PRO will automatically recognize the device name and the corresponding port.

Note: If H12MIDI PRO does not recognize the connected device, it may be a compatibility issue, please contact support@cme-pro.com to get technical support from CME.

- The 6 white indicators will be solid when powered on and flash quickly when sending or receiving MIDI messages.
- If a connected USB MIDI device consumes more than 500mA as

specified by the USB 2.0 standard, the H12MIDI Pro's internal protection circuit will automatically start and the corresponding USB port will stop supplying power until the connected device is removed.

- **Factory default route**: USB-C Host ports 1~16 are all routed to TRS MIDI ports 1~6. If you need the USB-C Host port to exchange MIDI messages with your computer through the USB-C client port, please use the HxMIDI Tools software to set up the corresponding route yourself.

	USB-C Virtual Out								MIDI Out					
	1	2	3	4	5	6	7	8	1	2	3	4	5	6
USB-C Host In 1									○	○	○	○	○	○
USB-C Host In 2									○	○	○	○	○	○
USB-C Host In 3									○	○	○	○	○	○
USB-C Host In 4									○	○	○	○	○	○
USB-C Host In 5									○	○	○	○	○	○
USB-C Host In 6									○	○	○	○	○	○
USB-C Host In 7									○	○	○	○	○	○
USB-C Host In 8									○	○	○	○	○	○
USB-C Host In 9									○	○	○	○	○	○
USB-C Host In 10									○	○	○	○	○	○
USB-C Host In 11									○	○	○	○	○	○
USB-C Host In 12									○	○	○	○	○	○
USB-C Host In 13									○	○	○	○	○	○
USB-C Host In 14									○	○	○	○	○	○
USB-C Host In 15									○	○	○	○	○	○
USB-C Host In 16									○	○	○	○	○	○

Note: If you need to change the routing configuration between connected MIDI devices, connect H12MIDI PRO's USB-C client port from your computer and reconfigure it using the free HxMIDI Tools software, see the [Router] section of the software manual. The new configuration is automatically saved into the interface.

❷ TRS MIDI output ports 1~6 and indicator lights

- TRS MIDI output ports and indicators are marked with outward-pointing arrows that can be used to connect to the standard MIDI IN port of MIDI devices and send MIDI messages. The TRS MIDI output ports can be selected as TRS MIDI Type-A/B using the free HxMIDI Tools software; the default is Type-A.
- 6 green indicators will be solid when powered on and flash quickly when sending or receiving MIDI messages.

❸ TRS MIDI input ports 1~6 and indicator lights

- TRS MIDI input ports and indicators are marked with inward-pointing arrows that can be used to connect to a standard MIDI OUT or MIDI THRU port of MIDI devices and receive MIDI messages. The TRS MIDI input ports automatically detect Type-A or Type-B connections, requiring no special configuration.
- 6 red indicators will be solid when powered on and flash quickly when sending or receiving MIDI messages.

- **Factory default routes**: MIDI In ports 1~6 are routed to the corresponding USB-C Virtual Out ports 1~6, and MIDI In ports 1~6 are also routed to USB-C Host Out ports 1~16.

	USB-C virtual Out								USB-C Host Out
	1	2	3	4	5	6	7	8	1~16
MIDI In 1	○								○
MIDI In 2		○							
MIDI In 3			○						
MIDI In 4				○					
MIDI In 5					○				
MIDI In 6						○			

Note: If you need to change the routing configuration between connected MIDI devices, use the HxMIDI Tools software to reconfigure it.

❹ USB-C client port and indicator light

The USB-C client port of the H12MIDI PRO is marked with a computer icon, which can be used to connect to the USB port of the computer to transfer MIDI data, or connecting to a standard USB power supply with a voltage of 5 volts (e.g. charger, power bank, computer USB socket, etc.) 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 the 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 the H12MIDI PRO. This interface features 8 in and 8 out USB virtual MIDI ports. H12MIDI PRO may be displayed as different device names on different operating systems and versions, such as "H12MIDI PRO" or "USB audio device", with the port number 0/1/2/3/4/5/6/7 or 1/2/3/4/5/6/7/8, and the words IN/OUT.

MacOS

MIDI In Device Name	MIDI Out Device Name
H12MIDI-Pro Port 1	H12MIDI-Pro Port 1
H12MIDI-Pro Port 2	H12MIDI-Pro Port 2
H12MIDI-Pro Port 3	H12MIDI-Pro Port 3
H12MIDI-Pro Port 4	H12MIDI-Pro Port 4
H12MIDI-Pro Port 5	H12MIDI-Pro Port 5
H12MIDI-Pro Port 6	H12MIDI-Pro Port 6
H12MIDI-Pro Port 7	H12MIDI-Pro Port 7
H12MIDI-Pro Port 8	H12MIDI-Pro Port 8

Windows

MIDI In Device Name	MIDI Out Device Name
H12MIDI-Pro	H12MIDI-Pro
MIDIIN2 (H12MIDI-Pro)	MIDIOUT2 (H12MIDI-Pro)
MIDIIN3 (H12MIDI-Pro)	MIDIOUT3 (H12MIDI-Pro)
MIDIIN4 (H12MIDI-Pro)	MIDIOUT4 (H12MIDI-Pro)
MIDIIN5 (H12MIDI-Pro)	MIDIOUT5 (H12MIDI-Pro)
MIDIIN6 (H12MIDI-Pro)	MIDIOUT6 (H12MIDI-Pro)
MIDIIN7 (H12MIDI-Pro)	MIDIOUT7 (H12MIDI-Pro)
MIDIIN8 (H12MIDI-Pro)	MIDIOUT8 (H12MIDI-Pro)

Note: Windows restricts USB MIDI ports to one client at a time. To run multiple applications simultaneously, assign a unique H12MIDI Pro client port to each app (HxMIDI Tools exclusively uses client port 1), or close other programs. Upcoming Windows MIDI Services are expected to resolve this limitation.

- When used as a standalone MIDI router, mapper, and filter, you can connect this interface to a standard USB charger or power bank via the matching USB cable and start to use.

Note: Please turn off the automatic power saving function of the power bank to prevent the power bank from automatically powering off.

- The orange indicator will be solid when powered on and flash quickly when sending or receiving MIDI messages.

- Factory default routing: USB-C Virtual In ports 1~6 are routed to the corresponding MIDI Out ports 1~6 respectively. By default, the USB-C Virtual ports and the USB-C Host ports are not configured with any routing. Please configure them manually if necessary.

	MIDI Out						USB-C Host Out
	1	2	3	4	5	6	1~16
USB-C Virtual In 1	○						
USB-C Virtual In 2		○					
USB-C Virtual In 3			○				
USB-C Virtual In 4				○			
USB-C Virtual In 5					○		
USB-C Virtual In 6						○	
USB-C Virtual In 7							
USB-C Virtual In 8							

Note: If you need to change the routing configuration between connected MIDI devices, use the HxMIDI Tools software to reconfigure it.

❺ DC 9V power socket

You can connect a DC power adapter with a minimum 500 mA up to maximum 3 A (depending on connected USB devices) to power the H12MIDI 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 H12MIDI 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.*



❻ [Standby] button and indicator light

This device will automatically turn on after being powered on, no button operation is required. Press and hold the [Standby] button for more than 3 seconds in the power on state to put the device into standby mode, and then press the [Standby] button to resume the power on state. In standby mode, the 6 USB Host ports will stop supplying power to external devices, only the standby indicator will flash slowly.

Note: You can set up automatic sleep through the HxMIDI Tools software and send MIDI messages to wake up through the USB port of your computer.

❼ [Panic] emergency stop button and indicator light

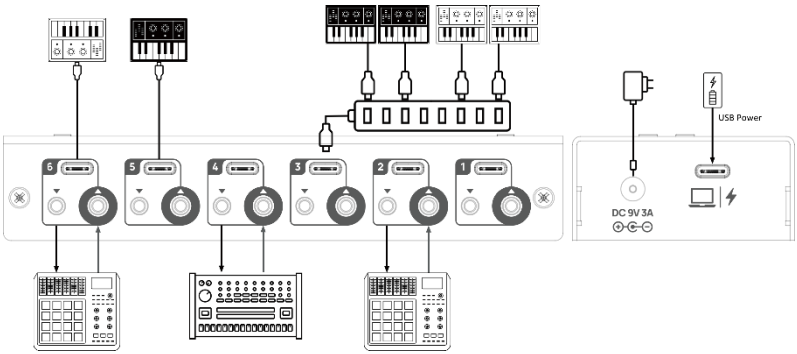
- When powered on, quickly click the [Panic] button and the device will send a "All Notes Off" message for all 16 MIDI channels to all output ports. This message can be used to eliminate unexpected long notes from external devices. All relevant indicators will flash.
- When the power is on, press and hold the [Panic] button for more than 3 seconds and then release it, and all settings of this device will be restored to the default state.

❽ [Presets] button 1~6 and indicator light

- H12MIDI PRO has 6 user-customizable presets. Every time the button is pressed when the power is on, the interface will switch to the next preset in a cyclical order, and the illuminated blue light indicates the current preset number (in the default state, the 6 presets are the same).
- When the power is on, press and hold the button for 3 seconds and then release, the current preset will be restored to the default state.

CONNECT

- Use H12MIDI PRO to connect external USB MIDI devices to your MIDI device



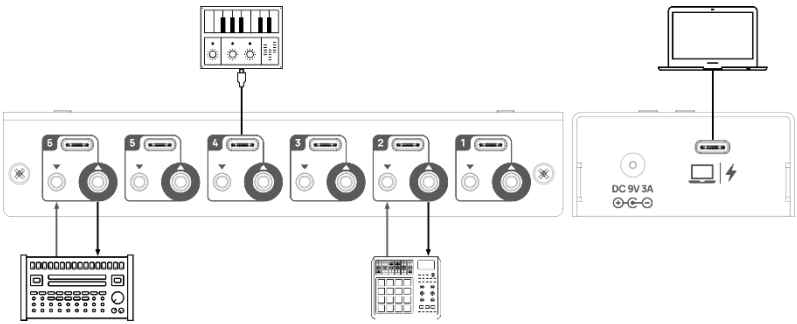
1. Connect a USB or DC 9V power supply to the device.
2. Use your own USB cable to connect the plug-and-play USB MIDI device to USB-C Host ports 1~6 of H12MIDI Pro. If you want to connect more than 6 USB MIDI devices at the same time, please use a USB hub.
3. Use the 3.5mm (1/8") TRS MIDI cable to connect the MIDI IN port of H12MIDI Pro to the MIDI Out or Thru port of other MIDI devices, and connect the MIDI OUT port of H12MIDI Pro to the MIDI IN port of other MIDI devices.

Note: The TRS MIDI In ports automatically detects Type-A/B. The TRS MIDI Out ports can be selectable between TRS MIDI Type-A/B via the free HxMIDI Tools software, and the default state is Type-A.

4. When the power is on, the LED indicator of the device will illuminate, and you can send and receive MIDI messages between the connected USB MIDI device and the MIDI device according to the preset signal routing and parameters. By default, all USB Host virtual ports detected by H12MIDI PRO are pre-routed to all TRS MIDI ports. Please use HxMIDI Tools software to adjust the routing according to your needs. Improper routing settings may prevent MIDI messages from being transmitted.

Note: H12MIDI PRO has no power switch, just power on and it can start working.

- Use H12MIDI PRO to connect external MIDI devices to your computer



1. Use the provided USB cable to connect the USB-C client port of H12MIDI Pro to the USB port of your computer. Multiple H12MIDI Pros can be connected to a computer via a USB Hub.
2. Use the TRS MIDI cable to connect the MIDI IN port of H12MIDI Pro to the MIDI Out or Thru port of other MIDI devices, and connect the MIDI OUT port of H12MIDI Pro to the MIDI IN port of other MIDI

devices.

Note: The TRS MIDI In ports automatically detects Type-A/B. The TRS MIDI Out ports can be selectable between TRS MIDI Type-A/B via the free HxMIDI Tools software, and the default state is Type-A.

3. Use a USB cable to connect the USB-C Host port of H12MIDI Pro to the USB client port of other MIDI devices. Because the default state of H12MIDI Pro does not set any route from the USB-C Host port to the USB-C client port, MIDI devices connected to the USB-C Host port of the H12MIDI Pro cannot exchange MIDI messages directly with the computer. Please use HxMIDI Tools software to route the USB-C Host port to a specific USB-C client port according to your needs, and select the USB-C client port in the music software for MIDI messages exchange. Improper routing settings may prevent MIDI messages from being transmitted.
4. When the power is on, the LED indicator of H12MIDI Pro will light up, and the computer will automatically detect the device. Open the music software, set the MIDI input and output ports to H12MIDI PRO on the MIDI settings page, and get started. See the manual of your software for further details.

Note: CME offers a variety of 3.5mm (1/8") TRS MIDI Type-A compact cables. Please visit https://www.cme-pro.com/trs-midi-cables-type-a/.

USB 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 brain with a USB port.
- Operating system: Mac OS X 10.6 or later.

iOS:

- Any iPad, iPhone, iPod Touch. Connecting 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 and Windows 10 or later, iOS, Android) and the user manual. You can use it to upgrade the firmware of your H12MIDI 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 H12MIDI Pro.

1. MIDI Router Settings



The router is used to view and change the signal of MIDI messages in your H12MIDI Pro hardware. Please select the input port on the left first, then click the selection box in front of each output port on the right to establish a route, and click the selection box again to deselect it.

2. MIDI Mapper settings



The mapper is used to reassign (remap) the selected input message to the connected device so that it is output according to custom rules that are defined by you. Please select the input port first, then select the source and destination messages type in the Message field, and next set the MIDI channel, and message value 1 & 2.

3. MIDI Filter settings



The Filter is used to block certain types of MIDI messages from selected input or output port. Please select the MIDI port first, then select the MIDI channel or message type you want to block. When a MIDI channel is selected, all messages on that channel will be blocked. When certain message types are selected, those message types will be blocked on all MIDI channels. To block a specific MIDI message, use the [Filter message] function in the mapper.

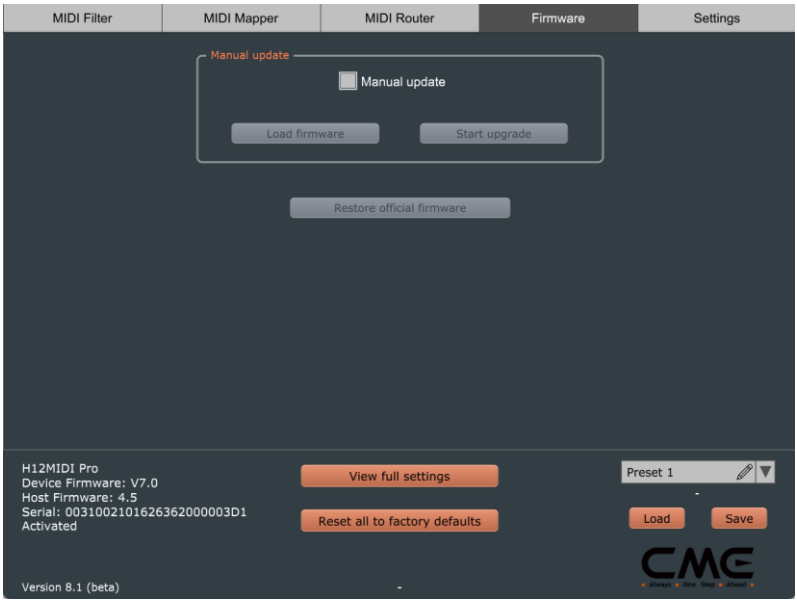
4. [View full settings] and [Reset all to factory defaults]



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]



When your computer is connected to the internet, the software automatically detects whether the currently connected H12MIDI 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 H12MIDI PRO every time after upgrading

to a new firmware version.

6. [Settings]

The settings page is used to configure the connected devices.



[MIDI Settings]

If you have multiple devices connected at the same time, select the device and port you need to configure here.

[USB String name]

If you have multiple identical CME devices, you can assign them different names here to avoid confusion when using them simultaneously in music software.

[Presets]

Assign the specified MIDI message for remote control switching between 6 presets.

[TRS Types]

Configure the wiring types of the 6 TRS MIDI OUT respectively.

[Power] (Power Setting)

Configure auto-sleep and auto-wake via USB.

[Device]

If a connected external USB MIDI device is not recognized, you can reconnect it after pressing the [Start device dump] button. The information window below will automatically retrieve the device's USB descriptors. Please copy this information and report it to CME technical support.

SPECIFICATIONS

Technology	USB Host and Client, both compliant with USB MIDI class (Plug and Play)
Connectors	6x USB-C (Host), 1x USB-C (Client) 6x 3.5mm (1/8") TRS MIDI Inputs & Outputs (compatible with Type-A/B) 1x DC power socket (External 9V DC adapter not included)
Ports	16-in-16-out virtual USB MIDI host ports (for USB MIDI hardware) 8-in-8-out virtual USB MIDI client ports (for computer) 6-in-6-out TRS MIDI ports (selectable Type A/B)
LED Indicators	6x USB-C Host LED lights 12x TRS MIDI LED lights 1x USB-C client LED light 6 preset LED lights

Buttons	1x for Presets, 1x for Panic, 1x for Standby
Compatible devices	Class compliant USB MIDI client devices Computers and USB MIDI host devices Devices with standard MIDI sockets, including 5V and 3.3V compatibility
Compatible OS	MacOS, iOS, Windows, Android, Linux Ubuntu, 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 Power Input – Powered via standard 5V USB from a computer or charger. DC Power Input (5.5mm x 2.1mm) – 9V socket (center negative, outer positive) 500 mA (minimum) up to 3 A (maximum), depending on connected USB devices. USB Host Power – USB-C Host ports supply power to connected devices. Each USB-C Host port can provide up to 500 mA.
Configuration and Firmware upgrade	Configurable/Upgradable via USB-C client port using HxMIDI Tool software (Win, MacOS, iOS & Android through USB cable)
Power consumption	1.6W
Size	162 mm (L) x 60 mm (W) x 30 mm (H) 6.38 in (L) x 2.36 in (W) x 1.18 in (H)
Weight	208g / 7.34oz

Specifications are subject to change without notice.

FREQUENTLY ASKED QUESTIONS

- **All LED lights on the H12MIDI PRO do not turn on.**

- Please check whether the USB socket of the computer is powered, or the power adapter is powered.
- Please check if the USB power cable, or the polarity of the DC power supply is wrong.
- When using a USB power bank, please turn off the power bank's automatic power-saving function.

- **H12MIDI PRO does not recognize connected USB devices.**

- H12MIDI 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 16, H12MIDI Pro will not recognize the excess ports.
- When H12MIDI Pro is powered by DC, if the total power consumption of the connected devices exceeds 3A, 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 connected to the H12MIDI Pro.**

- Please check if the H12MIDI Pro is correctly selected as the MIDI input device in your music software.
- Please check if the correct MIDI routing or filters have been configured by using the HxMIDI Tools software.

- **The external sound module does not respond to MIDI messages played by the computer.**

- Please check if the H12MIDI Pro is correctly selected as the MIDI input device in your music software.
- Please check if the correct MIDI routing or filters have been configured by using the HxMIDI Tools software.

- **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 configured custom MIDI routing via the HxMIDI Tools software. You can press the [Panic] button while the device is powered on to send a "All notes off" message to eliminate long notes.

CONTACT INFORMATION

Email: support@cme-pro.com

Web: www.cme-pro.com

