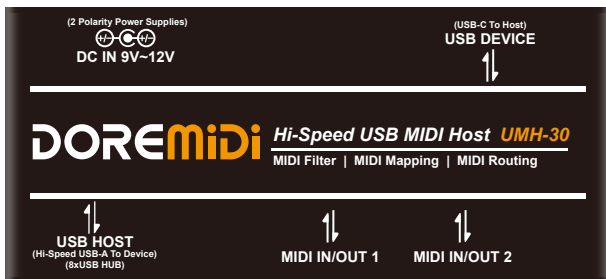


Hi-Speed USB MIDI HOST UMH-30 Instruction

Thank you for using the DOREMiDi Hi-Speed USB MIDI Host!

This product connects USB musical instruments and MIDI 5-pin devices, featuring MIDI filtering, routing, and mapping functions.

To better utilize the functions of this product, we recommend that you read this instruction manual carefully.

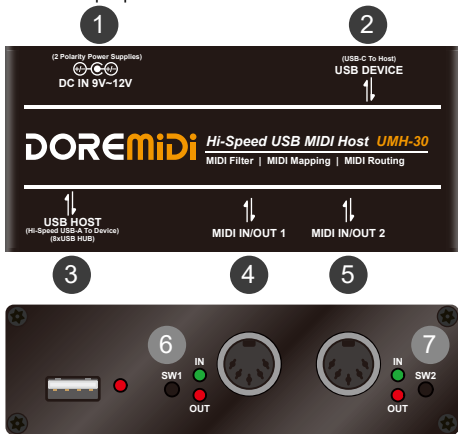


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1. Introduction

The UMH-30 high-speed USB MIDI HOST box is the third-generation USB MIDI host box launched by DOREMiDi. The UMH-30 features high-speed USB 2.0, supports connection to USB hubs (up to 8 USB ports), and boasts strong compatibility, fast transmission speed, and high stability. The UMH-30 supports MIDI filtering, MIDI mapping, and MIDI routing, allowing for flexible handling of MIDI message transmission. Furthermore, the UMH-30 has two MIDI 5-pin ports, which can be configured as MIDI input/output ports, suitable for various MIDI application scenarios. The UMH-30 also features a USB DEVICE port, which can be connected to a computer to transfer MIDI messages from the MIDI 5-pin ports and the USB host.

2.Appearance



Name	Description
① DC IN	The product's power supply port supports 9~12VDC power. Specifications: Ring diameter 5.5*Tip diameter 2.1mm, supports tip positive and ring negative, and tip negative and ring positive. It features a power indicator light, which illuminates when the product is powered on.
② USB DEVICE	The USB-C port features standard MIDI functionality, allowing connection to a computer for MIDI transfer. Connecting to a computer also enables configuration of MIDI filtering, MIDI mapping, and MIDI routing. A connection indicator light illuminates when connected to a computer.
③ USB HOST	High-speed USB 2.0 host interface, connects to USB MIDI devices (To HOST) via USB-A connector. Supports connection to USB hubs (up to 8 USB ports).

4 5 MIDI IN/OUT 1~2	Five-pin MIDI input/output port, which can be set to MIDI input or MIDI output. Green light on: Indicates it is set to MIDI input. Red light on: Indicates it is set to MIDI output.
6 SW1	MIDI IN/OUT1 port transmission direction switch button: Click to switch MIDI transmission direction.
7 SW2	MIDI IN/OUT2 port transmission direction switch button: Click to switch MIDI transmission direction.

3.Parameters

Name	Description
Model	UMH-30
Size (L x W x H)	115*53*33mm
Weight	160g
Power Consumption	45mA@9V, 30mA@12V, 60mA@5V(Powered via USB-C)
USB HOST Speed	480Mbps (60MB/s)
USB HOST Version	Standard high-speed USB MIDI HOST interface (USB2.0)
USB HOST Compatibility	Compatible with all USB MIDI devices USB2.0/USB1.0/USB1.1
USB HOST Power Output	It can provide a maximum power supply of 5V/2A, and the power supply of the DC port needs to have a power of 10W or more.
USB Device Version	USB 1.1 device, standard USB MIDI device, plug and play when connected to a computer.
MIDI Interface	High-performance FTP processing with one input and one output 16-channel MIDI interface, Built-in high-speed Isolator
MIDI Compatibility	Compatible with all musical instruments with MIDI standard interface
Firmware Upgrade	Support firmware upgrade

4.Steps for usage

4.1. Power supply

Power Supply	Description
Powered by DC port	a. 9V DC power supply: Use a 9V/0.5A power supply. b. 12V DC power supply: Use a 12V/0.5A power supply. c. If you need to power other USB MIDI devices via the USB HOST port, please ensure that the DC power supply has sufficient power to meet the operating requirements of these USB MIDI devices.
Powered by USB Device port	The UMH-30 can also be powered via the USB DEVICE port. Note: Computer's USB port typically provides 5V/0.5A of power. If powering the product through a USB hub, please ensure sufficient power.

4.2. Connect a USB MIDI instrument

Connect a USB MIDI instrument via the USB-A port of "USB HOST". Once the connection is successful, the indicator light of "USB HOST" will light up.

4.3. Connect MIDI 5-pin device

- To set the data direction of the MIDI port, click the SW1/2 button and set the MIDI DIN port as input/output.
- Connect the MIDI IN to the instrument's MIDI output and the MIDI OUT to the instrument's MIDI input.
- When all MIDI messages are outputting/inputting to the corresponding port, the indicator light on the MIDI port will flash.

4.4. Connect the USB hub

- Connect the USB MIDI hub via the "USB HOST" port. The "USB HOST" indicator light will illuminate after connecting USB MIDI device to the hub.
- The UMH-30 supports USB hubs with up to 8 USB ports. The DOREMiDi USB HUB-7 hub is recommended for better compatibility.

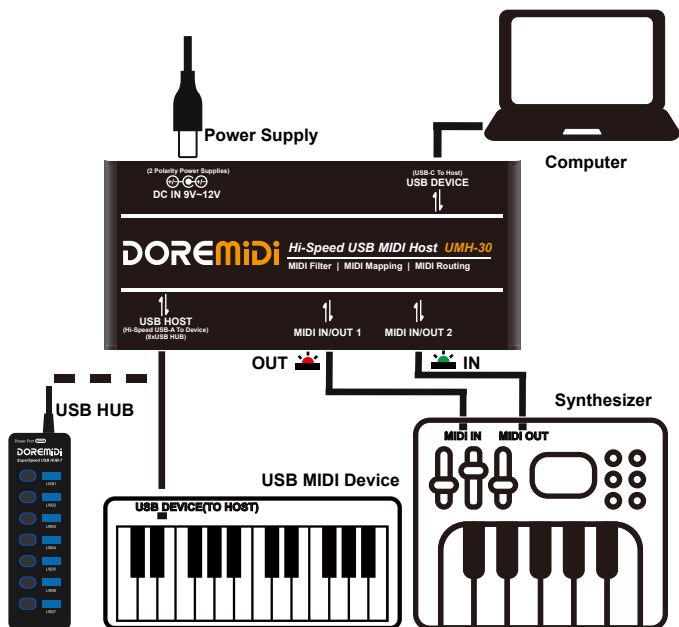
4.5. Connect to computer

After connecting the UMH-30 to a computer, you can configure MIDI port routing, filtering, and mapping. See Section **"6.Configuring MIDI Filtering/Routing/Mapping"** for details. Additionally, the UMH-30 can be used as a MIDI hub after connection, allowing the computer's MIDI software to communicate with devices connected to the USB HOST port or MIDI 5-pin port. The UMH-30 has three input ports and three MIDI output ports, users can select the desired MIDI port in the MIDI software. The mapping between the computer's MIDI ports and the UMH-30's MIDI ports is as follows:

MIDI Input/Output	MIDI Port Names	UMH-30 Ports
MIDI Inputs	DOREMiDi UMH-30	MIDI IN1
	MIDIIN2 (DOREMiDi UMH-30)	MIDI IN2
	MIDIIN3 (DOREMiDi UMH-30)	USB HOST
MIDI Outputs	DOREMiDi UMH-30	MIDI OUT1
	MIDIOUT2 (DOREMiDi UMH-30)	MIDI OUT2
	MIDIOUT3 (DOREMiDi UMH-30)	USB HOST

(Note: If you use "MIDI Stream Config" to set up MIDI routing, please do not repeat the routing in other software, otherwise it may cause MIDI data looping.)

5.Connection diagram



6. Configure MIDI Filter/Routing/Mapping

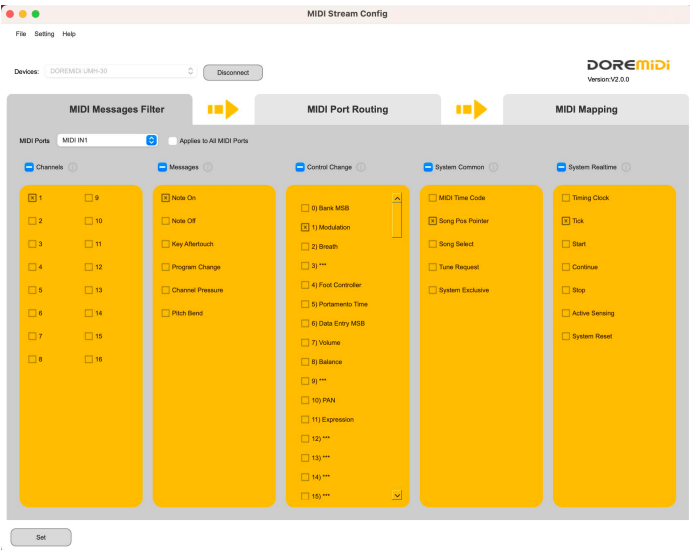
After connecting the UMH-30 to a computer via USB device port, users can use the "MIDI Stream Config" software to configure MIDI filtering, routing, and mapping for each MIDI port. The "MIDI Stream Config" software can be downloaded from www.doremidi.cn. The software is compatible with Windows 7 and later, macOS V13.0 and later. The UMH-30 also features non-volatile memory, saving settings and allowing for independent use without a computer.

6.1. Connect the device

Devices: DOREMiDi UMH-30 Connect

Connect the UMH-30 to the computer via "USB DEVICE" port, select UMH-30, and click "Connect" to complete the connection. After connection, the software will automatically retrieve the UMH-30's settings parameters.

6.2. Configure MIDI Message Filter



- Select "MIDI Messages Filter".
- In "MIDI Ports", select the MIDI port that needs to be filtered, select "Applies to All MIDI Ports" to apply the filter to all MIDI ports.
- Select the content you want to filter. Select "x" to filter that MIDI message. Please refer

to the following:

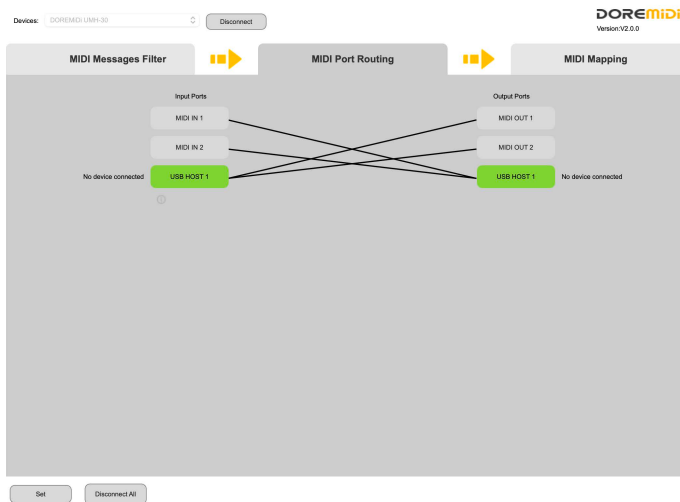
Filter Type	Description
Channels	MIDI channel, filter all messages of this MIDI channel.
Messages	MIDI message type, filter MIDI messages of this type in all MIDI channels.
Control Change	MIDI CC controller, filter the messages of this CC controller in all MIDI channels.
System Common	MIDI system messages, filter MIDI messages of this type.
System Realtime	MIDI system real-time time message, will filter this type of MIDI message.

d. Set: After selecting the filter option, click "Set" to save the settings to the product.

6.3. Configure MIDI Port Routing

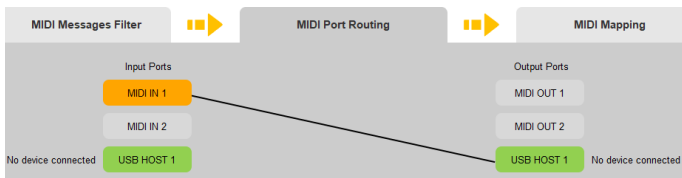
6.3.1. Factory Default MIDI Routing

Select "MIDI Port Routing" interface. The UMH-30's factory default routing is MIDI IN → USB HOST, USB HOST → MIDI OUT, as shown in the figure:



6.3.2. Routing Operations

e. Left-click to select the Input Ports, and then click the Output Ports on the right to complete the routing from MIDI input to MIDI output. Right-click the connection line to cancel the connection, or click "Disconnect All" to cancel all connections.



(Note: In the design of UMH-30, the MIDI input and output are integrated, so MIDI IN 1 cannot be routed to MIDI OUT1, and MIDI IN 2 cannot be routed to MIDI OUT2.)

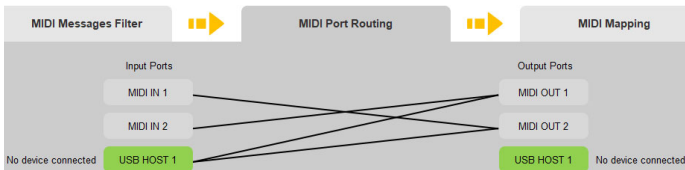
f. Set: After configuring the MIDI routing, click "Set" to save the settings to the product.

g. Disconnect All: Click "Disconnect All" will delete all route connections.

6.3.3. MIDI Routing Reference

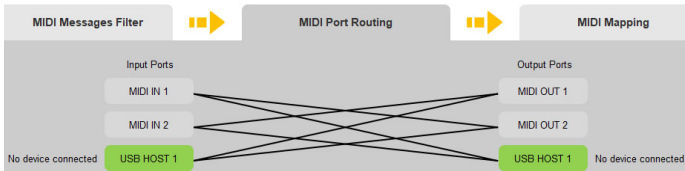
1) MIDI Merging 1

USB HOST + MIDI IN → MIDI OUT, as shown in the image:



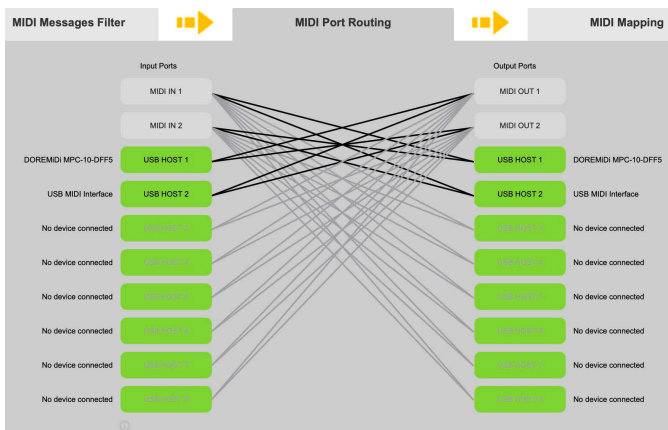
2) MIDI Merging 2

USB HOST+MIDI IN→MIDI OUT, MIDI IN→USB HOST, as shown in the image:



6.3.4. Connect the USB hub

When connected to a USB hub, the UMH-30 has up to 8 USB host ports that can be configured for routing. When USB devices are connected, the software displays the names of the USB devices in the order they are plugged in. Unconnected USB host ports will be grayed out and display "No device connected," as shown in the image:



(Note: ①To ensure the correct order of USB devices, it is recommended to connect the USB devices to the USB hub first, and then connect the USB hub to the UMH-30. ②It is recommended to use the DOREMiDi USB HUB-7 hub (with 7 USB ports). Other brands of USB hubs may not be compatible.)

6.4. Configure MIDI Mapping

6.4.1. Interface Introduction

The UMH-30 supports mapping of all standard MIDI messages, including MIDI Note, Control Change (CC), Program Change (PC), System Exclusive, etc., and can store up to 16 MIDI mapping rules.

MIDI Stream Config

File Setting Help

Device: DOREMIDI UMH-30

Disconnect

DOREMIDI
Version: V2.0.0

The screenshot shows the 'MIDI Mapping' tab in the DOREMIDI software. It displays a mapping rule for a Control Change (CC) message. The 'Original MIDI' section shows the message is on MIDI Channel 1, Controller# 0 (Bank MSB), with a value range from 0 to 127. The 'Mapping MIDI' section shows the mapped message is on MIDI Channel 2, Controller# 1 (Modulation), with the same value range from 0 to 127. The interface also includes a 'MIDI Messages Filter' and a 'MIDI Port Routing' section.

a. Mapping Number: The UMH-30 has a total of 16 mapping numbers. Each mapping number can store one MIDI mapping rule.

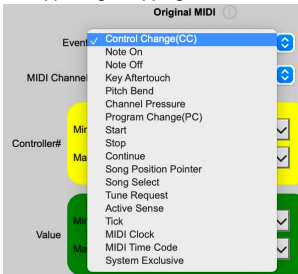
The screenshot shows the 'Mapping Number' dropdown menu, which lists numbers 1 through 16. The number 1 is currently selected.

b. Select Port to Map: Select the MIDI port to be mapped, supporting mapping of MIDI input ports and MIDI output ports.

c. Original MIDI: The original MIDI message refers to the message after MIDI filtering and MIDI port routing.

The screenshot shows the 'Select Port to Map' dialog box. It has two columns: 'Input Ports' and 'Output Ports'. The 'Input Ports' column lists MIDI IN1, MIDI IN2, USB HOST IN1 (USB MIDI Interface), USB HOST IN2 (USB MIDI Interface), USB HOST IN3 (DOREMIDI FC-3), USB HOST IN4 (DOREMIDI MPC-16-0FF5), USB HOST IN5 (No device connected), USB HOST IN6 (No device connected), USB HOST IN7 (No device connected), and USB HOST IN8 (No device connected). The 'Output Ports' column lists MIDI OUT1, MIDI OUT2, USB HOST OUT1 (USB MIDI Interface), USB HOST OUT2 (USB MIDI Interface), USB HOST OUT3 (DOREMIDI FC-3), USB HOST OUT4 (DOREMIDI MPC-16-0FF5), USB HOST OUT5 (No device connected), USB HOST OUT6 (No device connected), USB HOST OUT7 (No device connected), and USB HOST OUT8 (No device connected).

- d. Mapping MIDI: Mapped MIDI messages. The original MIDI messages will be converted into mapped MIDI messages according to this rule.
- e. Event: MIDI mapping events, supporting mapping of all MIDI events, including Note/CC/PC, and SysEx, etc.

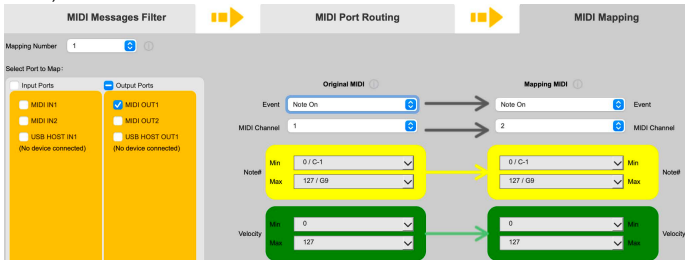


- f. MIDI Channel: There are a total of 16 MIDI channels, 1~16 corresponding to MIDI communication protocols 0~15.
- g. Set: After setting up the MIDI mapping, you need to click "Set" to save the settings to the product.
- h. Delete: Deletes the mapping rule for the current mapping number.
- i. Retore: Deletes all mapping rules for mapping numbers.

6.4.2. Typical Applications of Mapping

1) Changing the MIDI Note Channel

MIDI note consists of two MIDI messages: Note On and Note Off. Two mapping rules need to be established. Map the MIDI Note On message from MIDI channel 1 (MIDI OUT1) to MIDI channel 2:



Map the Note Off setting of MIDI channel 1 (MIDI OUT1) to MIDI channel 2:

The screenshot shows the MIDI Mapping interface with three tabs: MIDI Messages Filter, MIDI Port Routing, and MIDI Mapping. The MIDI Mapping tab is active, showing a mapping of Note Off from MIDI channel 1 to MIDI channel 2. The original MIDI event is Note Off on channel 1, and the mapping MIDI event is Note Off on channel 2. The mapping is configured for Note# and Velocity, both ranging from 0 to 127.

Mapping Number: 1

Select Port to Map:

- Input Ports:
 - ☐ MIDI IN1
 - ☐ MIDI IN2
 - ☐ USB HOST IN1 (No device connected)
- Output Ports:
 - ☒ MIDI OUT1
 - ☐ MIDI OUT2
 - ☐ USB HOST OUT1 (No device connected)
 - ☐ USB HOST OUT2 (No device connected)

Original MIDI:

- Event: Note Off
- MIDI Channel: 1
- Note#: Min 0 / C-1, Max 127 / G9
- Velocity: Min 0, Max 127

Mapping MIDI:

- Event: Note Off
- MIDI Channel: 2
- Note#: Min 0 / C-1, Max 127 / G9
- Velocity: Min 0, Max 127

2) Convert CC to PC

This is typically used in MIDI guitar effects control. As shown in the image, it maps the value of CC#1 received from MIDI IN1 to the PC:

The screenshot shows the MIDI Mapping interface with three tabs: MIDI Messages Filter, MIDI Port Routing, and MIDI Mapping. The MIDI Mapping tab is active, showing a mapping of Control Change (CC) to Program Change (PC). The original MIDI event is Control Change (CC) on channel 1, and the mapping MIDI event is Program Change (PC) on channel 1. The mapping is configured for Controller# and Value, both ranging from 0 to 127.

Mapping Number: 1

Select Port to Map:

- Input Ports:
 - ☒ MIDI IN1
 - ☐ MIDI IN2
 - ☐ USB HOST IN1 (No device connected)
- Output Ports:
 - ☐ MIDI OUT1
 - ☐ MIDI OUT2
 - ☐ USB HOST OUT1 (No device connected)
 - ☐ USB HOST OUT2 (No device connected)

Original MIDI:

- Event: Control Change(CC)
- MIDI Channel: 1
- Controller#: Min 1, Max 1
- Value: Min 0, Max 127

Mapping MIDI:

- Event: Program Change(PC)
- MIDI Channel: 1
- Patch: Min 0, Max 127

3) Convert PC to CC

As shown in the image, the PC value received from MIDI IN1 is mapped to the Value of CC#1:

The screenshot shows the MIDI Mapping interface with three tabs: MIDI Messages Filter, MIDI Port Routing, and MIDI Mapping. The MIDI Mapping tab is active, showing a mapping of Program Change (PC) to Control Change (CC). The original MIDI event is Program Change (PC) on channel 1, and the mapping MIDI event is Control Change (CC) on channel 1. The mapping is configured for Patch and Value, both ranging from 0 to 127.

Mapping Number: 1

Select Port to Map:

- Input Ports:
 - ☒ MIDI IN1
 - ☐ MIDI IN2
 - ☐ USB HOST IN1 (No device connected)
- Output Ports:
 - ☐ MIDI OUT1
 - ☐ MIDI OUT2
 - ☐ USB HOST OUT1 (No device connected)
 - ☐ USB HOST OUT2 (No device connected)

Original MIDI:

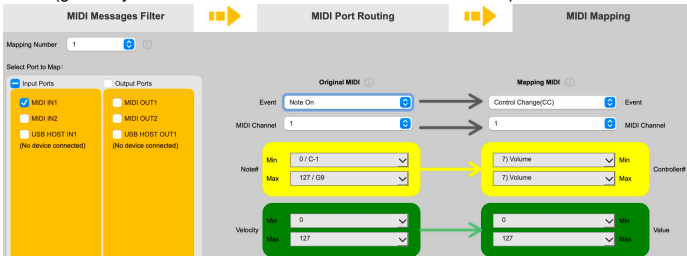
- Event: Program Change(PC)
- MIDI Channel: 1
- Patch: Min 0, Max 127

Mapping MIDI:

- Event: Control Change(CC)
- MIDI Channel: 1
- Controller#: Min 1, Max 1
- Value: Min 0, Max 127

4) Convert Note to CC

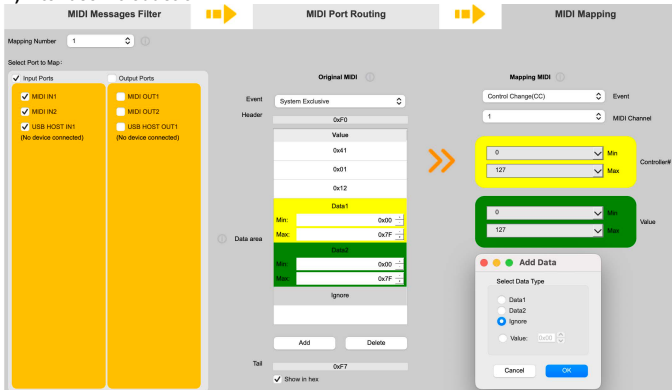
As shown in the image, the note velocity of MIDI channel 1 is mapped to the value of CC#7 (generally used to control the overall volume of the channel):



6.4.3. System Exclusive (or SysEx) Mapping

SysEx message mapping is a professional application, generally used to convert regular MIDI messages (PC/CC, etc.) to SysEx, or vice versa. We typically edit SysEx messages in hexadecimal (Hex).

1) Interface Introduction



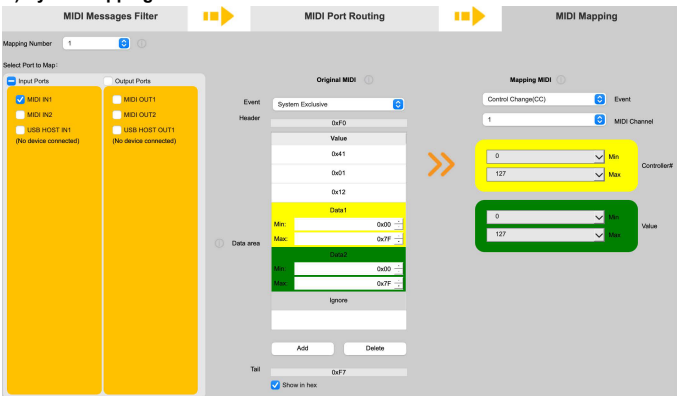
a. Header: The beginning of the SysEx message data, always 0xF0 (Hex).

b. Tail: The end of the SysEx message data, always 0xF7 (Hex).

c. Data area: The data area. The UMH-30 supports a maximum of 28 data bytes, with a maximum value of 0x7F (Hex).

- d.Add: Click "Add" to add data to the SysEx message.
- e.Delete: Click "Delete" to delete an added SysEx message.
- f. Data1 and Data2: SysEx supports mapping two data items, Data1 and Data2, using the same color. As shown in the diagram above, Data1 is mapped to the CC controller number (Controller#) of MIDI channel 1, Data2 is mapped to the CC value (Value).
- g.Value: A valid fixed value. The product will only perform MIDI mapping conversion upon receiving this value.
- h.Ignore: Adds data that can be ignored. This data only occupies one position, but the UMH-30 will not detect it. For example, some products use the last data as the check digit. Since the check digit changes randomly, we can set it to "Ignore" to ignore this data.

2) SysEx Mapping to CC



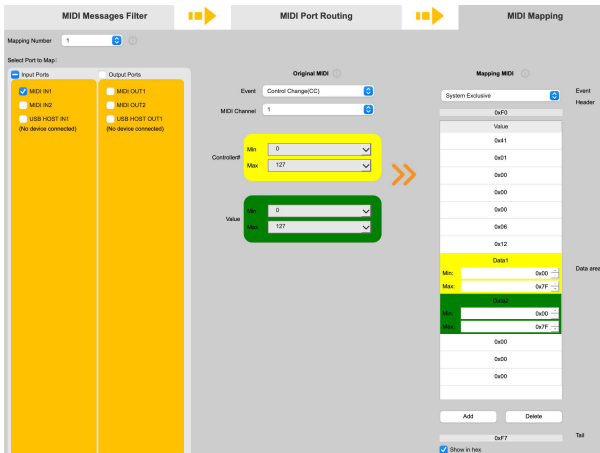
As shown in the image, mapping SysEx's Data1 and Data2 to MIDI channel 1's CC will result in the following mapping rules:

If the MIDI input receives "F0 41 01 12 **01 02** 7F F7 (Hex)", it will be converted to "B0 **01 02** (Hex)";

If the MIDI input receives "F0 41 01 12 **12 34** 60 F7 (Hex)", it will be converted to "B0 **12 34** (Hex)".

(Note: In "B0 **01 02**", "B" represents the CC controller event, and "0" represents MIDI channel 1.)

3) CC Mapping to SysEx

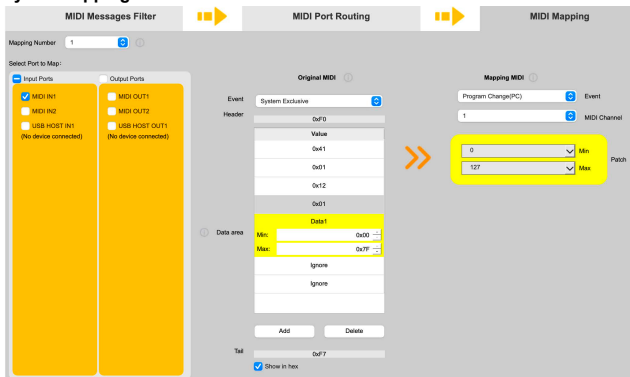


As shown in the image, the CC message of MIDI channel 1 is mapped to the Data1 and Data2 of the SysEx message. After setting this, the following mapping rules will apply:

MIDI IN1 receiving "B0 01 01 (Hex)" will be converted to "F0 41 01 12 00 00 00 06 12 01 01 00 00 00 F7 (Hex)"

MIDI IN1 receiving "B0 12 34 (Hex)" will be converted to "F0 41 01 12 00 00 00 06 12 12 34 00 00 00 F7 (Hex)"

4) SysEx Mapping to PC



As shown in the figure, mapping SysEx Data1 and Data2 to MIDI channel 1's CC will have the following mapping rules:

MIDI IN1 receiving "F0 41 01 12 **01** 12 7F F7 (Hex)" will be converted to "C0 **01** (Hex)".

MIDI IN1 receiving "F0 41 01 12 **12** 13 60 F7 (Hex)" will be converted to "C0 **12** (Hex)".

(Note: In "C0 01", "C" represents the PC controller event, and "0" represents MIDI channel 1.)

5) PC Mapping to SysEx

The screenshot shows the MIDI Mapping software interface with three main sections: MIDI Messages Filter, MIDI Port Routing, and MIDI Mapping.

MIDI Messages Filter: Mapping Number is set to 1. Select Port to Map shows Input Ports (MIDI IN1, MIDI IN2, USB HOST IN1) and Output Ports (MIDI OUT1, MIDI OUT2, USB HOST OUT1).

MIDI Port Routing: Original MIDI shows Event: Program Change(PC) and MIDI Channel: 1. Patch Min is 0 and Max is 127.

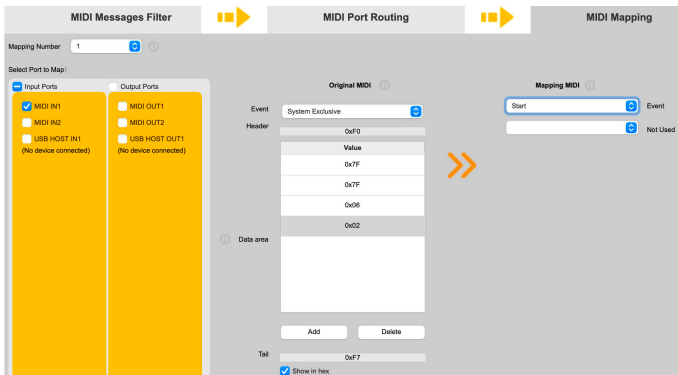
MIDI Mapping: Mapping MIDI shows System Exclusive. The Data1 field is highlighted in yellow, with Min: 0x00 and Max: 0x7F. The Data area shows a list of values (0x00, 0x01, 0x02, 0x00, 0x00, 0x06, 0x10, 0x00, 0x00, 0x00, 0x7F) and a Tail field.

As shown in the figure, mapping the PC message of MIDI channel 1 to the Data1 message of SysEx will have the following mapping rules after setting:

If the MIDI input receives "C0 **12**", it will be converted to "F0 41 01 12 00 00 00 06 10 **12** 00 00 00 F7 (Hex)"

If the MIDI input receives "C0 **7F**", it will be converted to "F0 41 01 12 00 00 00 06 10 **7F** 00 00 00 F7 (Hex)"

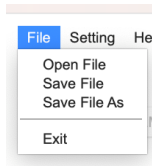
6) MMC Mapping to MIDI Start



MMC messages are also sent via SysEx format. As shown in the figure, this SysEx is the Play command for MMC messages. Mapping this command to MIDI Start allows the MIDI Start message to play MIDI sequences. After setting this, the following mapping rules will apply: MIDI IN1 receiving "F0 7F 7F 06 02 F7(Hex)" will be converted to "FA(Hex)".

6.5. Navigation Bar

6.5.1. File

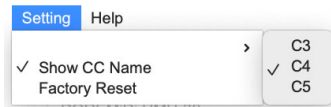


a. Save File: Saves all product configurations to a file for easy access next time. Saved configurations include all settings for MIDI message filtering, MIDI port routing, and MIDI mapping.

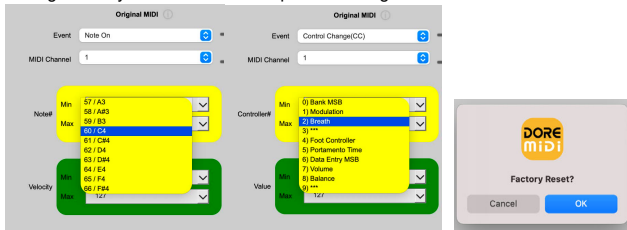
b. Save File As: Saves the file with a different name.

c. Open File: Opens a file used to import configuration parameters from other files.

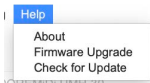
6.5.2. Setting



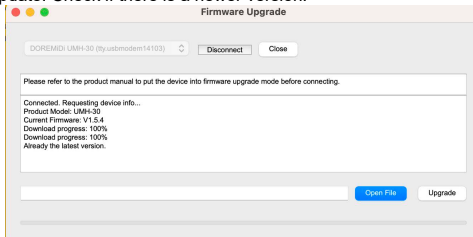
- a. MIDI Note = 60 Name: MIDI note name setting. This sets the note name displayed when MIDI Note = 60.
- b. Show CC Name: Sets the display name of the CC controller. When enabled, the CC controller name will be displayed when the pedal is set to Continuous Controller (CC). The CC controller name is defined according to the MIDI standard document, where "****" indicates an undefined name.
- c. Factory Reset: Restores factory settings. After the software is connected to the product, clicking "Factory Reset" will clear all product configurations.



6.5.3. Help



- a. About: Obtain information such as software version and website address.
- b. Firmware Upgrade: Press and hold SW1, then power on the product. The product will enter upgrade mode (USB DEVICE light flashes). Then use the software to upgrade the product firmware. (Note: ① For new firmware, please check the official website: www.doremidi.cn ② The upgrade mode may differ for different products; please refer to the product manual. ③ On a Windows PC, if the software cannot recognize the device, please install the USB driver (this driver is only for Windows systems): https://www.doremidi.club/download/Product/Upgrade/Virtual_COM_Port_Driver_V1.5.0.zip)
- c. Check for Update: Check if there is a newer version.



7.Precautions

- 1) This product contains a circuit board.
- 2) Rain or immersion in water will cause the product to malfunction.
- 3) Do not heat, press, or damage internal components.
- 4) Non-professional maintenance personnel shall not disassemble the product.
- 5) If the product is disassembled or damaged by improper use, the warranty is not available.

8.Questions & Answers

- 1.Question: Can the USB HOST interface power a USB MIDI instrument?

Answer: Yes, it can, but you need to ensure that the power input of the "DC IN" port meets the operating requirements of the USB MIDI instrument.

- 2.Question: The USB HOST interface is not working.

Answer: Please follow these steps:

- a.Ensure the "DC IN" power indicator is on.
- b.Confirm that the instrument is working properly and that its USB interface has MIDI functionality (e.g., it can be recognized by a computer as a MIDI device).
- c.Try powering the product through "DC IN" first, then connecting it to the instrument through "USB HOST" to see if the "USB HOST" indicator light illuminates.
- d.If the "USB HOST" indicator light still does not illuminate, or if it illuminates but cannot transmit MIDI messages, please contact customer service for assistance.

- 3.Question: The MIDI OUT/IN interface is not working.

Answer: Please follow these steps:

- a. Ensure the product's "MIDI OUT" is connected to the instrument's "MIDI IN," and the product's "MIDI IN" is connected to the instrument's "MIDI OUT".
- b. The MIDI interface indicator light will flash when all MIDI messages are output/input at the corresponding interface.
- c. If the MIDI interface indicator light does not flash, please contact customer service.

- 4.Question: The USB HUB is unstable after connecting multiple devices.

Answer: Please follow these steps:

- a.If powering the instrument through the USB HUB's USB port, please check if the power input of "DC IN" meets the operating requirements of the USB MIDI instrument.
- b.Please try providing additional power to the USB HUB.

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