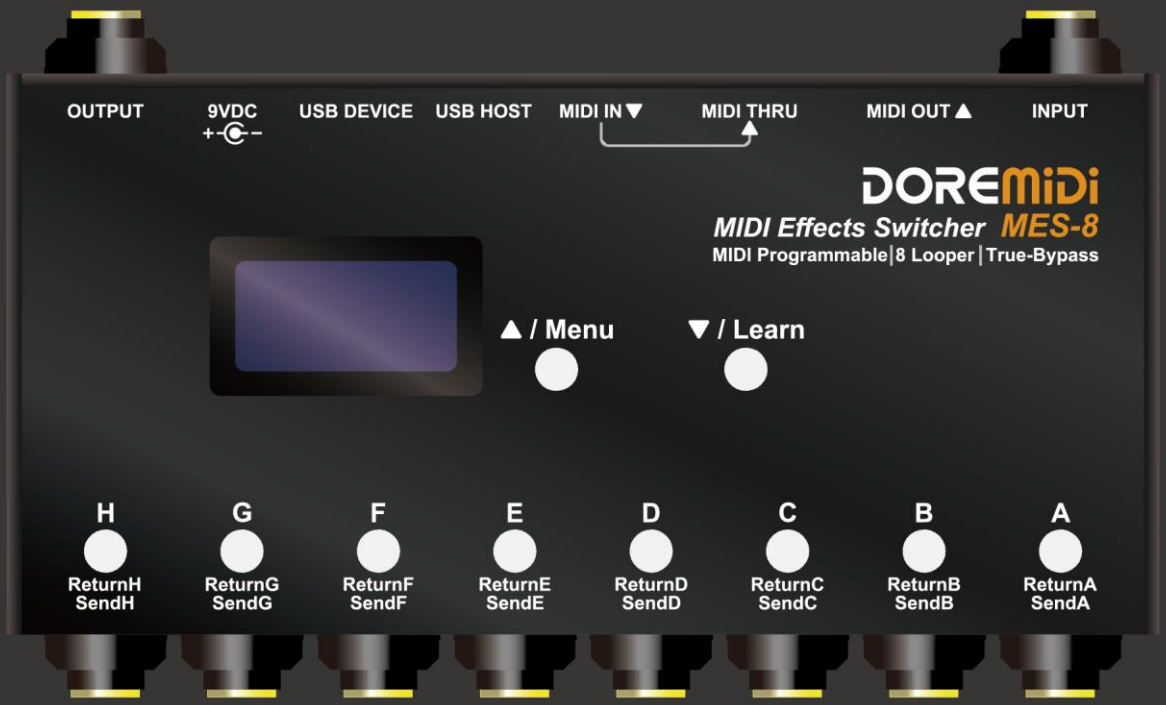
DOREMiDi
www.doremidi.cn

MIDI Effects Switcher (MES-8)

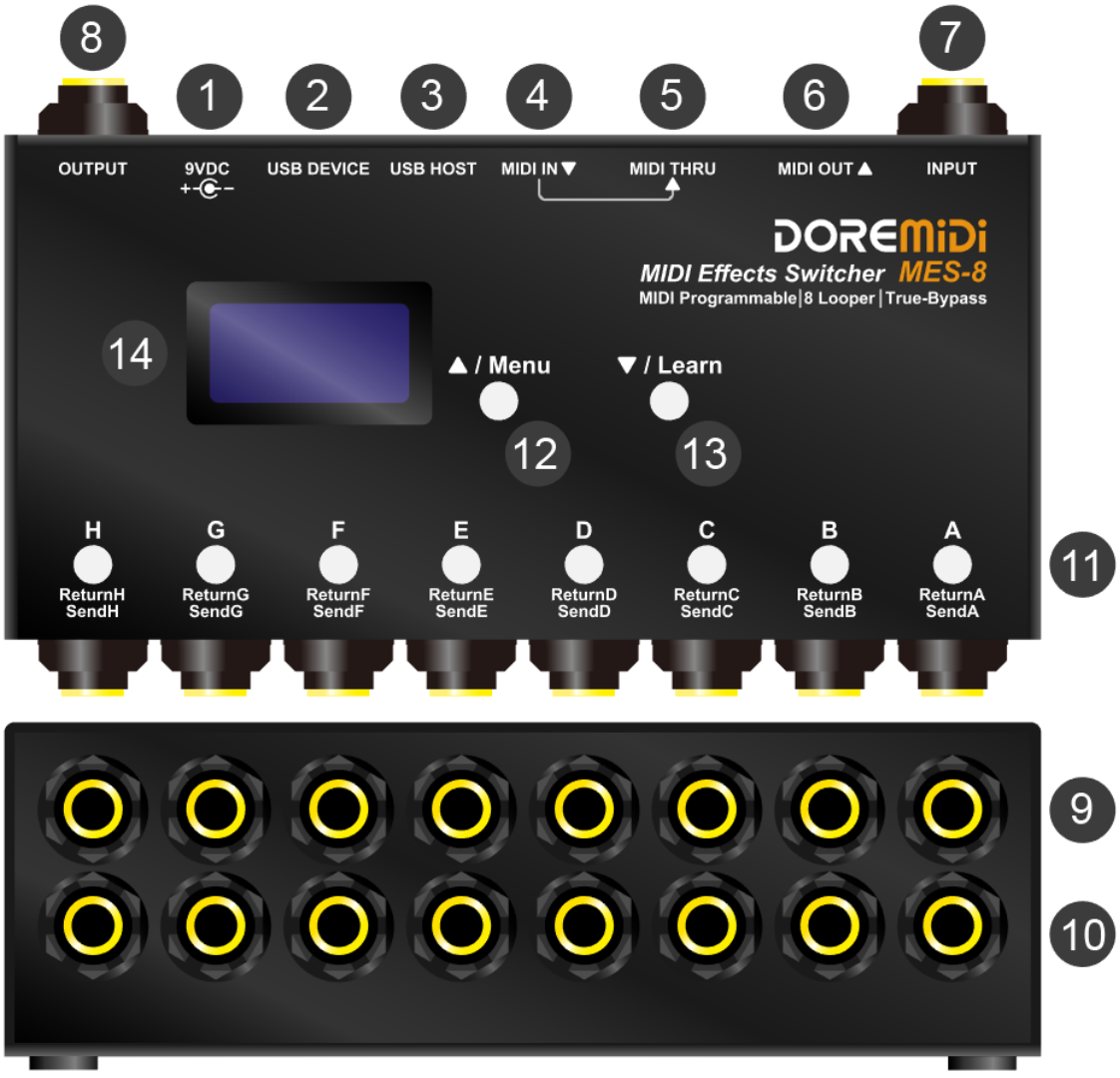


Instructions

1. Introduction

The MIDI Effects Switcher (MES-8) is a controller that can turn on and bypass audio effects controlled by MIDI. By learning MIDI messages, MES-8 can quickly control different effect switch combinations, up to 160 combinations. MES-8 can be controlled by a variety of MIDI devices, such as MIDI five-pin DIN devices, USB MIDI devices, and computers. In addition, MES-8 has True-bypass, which does not interfere with the audio effect. It has a built-in buffer that can increase the audio output capability.

2. Appearance



No.	Name	Description
1	9V DC	The product power supply port uses a 9V-DC adapter for power supply. (DC plug specification: 5.5*2.1mm, Tip negative and Ring positive) Power consumption: about 210mA@9V, 300mA@5V.
2	USB DEVICE	USB device port, connect to computer to receive MIDI messages.
3	USB HOST	USB MIDI host port, connects USB MIDI devices to receive MIDI messages.
4	MIDI IN	Standard MIDI five-pin DIN input port, connect to MIDI device to receive MIDI messages. MIDI messages can also be transmitted to the USB DEVICE/USB HOST port.①
5	MIDI THRU	Standard MIDI five-pin DIN through port, which can output MIDI messages from the MIDI input port for connecting more MIDI devices in series.
6	MIDI OUT	The standard MIDI five-pin DIN output port can output MIDI messages generated by the SWITCH button, and can also output MIDI messages from USB DEVICE/USB HOST.

7	INPUT	1/4" mono audio input port, the starting of audio input, can be connected to musical instrument audio input.
8	OUTPUT	1/4" mono audio output port, the end of the audio output, outputs the mixed audio of the audio chain.
9	Return A~H	Return: 1/4" mono audio input port. After sending to the effector, it returns to MES-8. It can also be connected to the instrument audio port input.①
10	Send A~H	Send: 1/4" mono audio output port, which can output audio to audio effectors or to amplifiers. ①
11	SWITCH A~H	Enable / Bypass button, click to enable / bypass the corresponding Return / Send audio port. After entering the menu, SWITCH-E is the button to confirm the setting, and SWITCH-D is the button to return to the previous menu.① After entering the learning mode, click any button to exit the learning mode.
12	▲/Menu	Press and hold for 3 seconds to enter the settings menu, click up to select options or parameters. If there is no operation for 30 seconds after entering the menu, it will automatically return to the main interface.
13	▼/Learn	After entering the menu, click to select options or parameters downwards. In the main interface, press and hold for 3 seconds to enter the learning mode, which can learn externally input MIDI messages. When the learned MIDI messages are received next time, the combination of Return/Send A~H will be called.
14	Display screen	Displays the current working status of the product, the configuration of menu parameters, and the working status of each audio port.

Note:①See "4. Steps for usage" for details.

3. Product Parameters

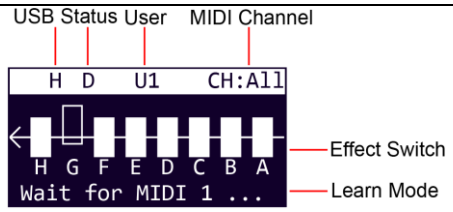
Name	Description
Model	MES-8
Size (L x W x H)	155*90*60mm
Weight	400g
Power supply	DC port power supply: 9V/500mA, USB DEVICE power supply: 5V/500mA.
Consumption	About 210mA@9V, 300mA@5V.
USB DEVICE Interface	USB class-compliant device, plug and play.
USB HOST Output Power	Maximum 1A@5V, depends on the input power of DC.
USB HOST Compatibility	Compatible with USB class compliant MIDI devices. Compatible with some known not USB class compliant MIDI devices. **(Note: Non-USB compliant devices need to install special drivers when connecting to a computer. This product is compatible with some known non-USB compliant devices. You can view it on the official website "www.doremidi.cn".)**
MIDI Compatibility	Compatible with all musical instruments with MIDI standard port, compatible with all MIDI type messages.
Firmware upgrade	Support firmware upgrade. **(Note: Press and hold the Menu button to power on the product, the product will enter the upgrade mode, please refer to the official release for new firmware.)**

4. Steps for usage

1) **Power supply:** Use a 9V-DC adapter to power the MES-8. Pay attention to the polarity of the adapter (Tip negative and Ring positive). After power is supplied, the display will light up and you will enter the main interface. MES-8 can also be powered via USB DEVICE. USB DEVICE supports 5V input.

   (Note: Do not use other voltage inputs, as it may cause product damage or failure to work properly.)

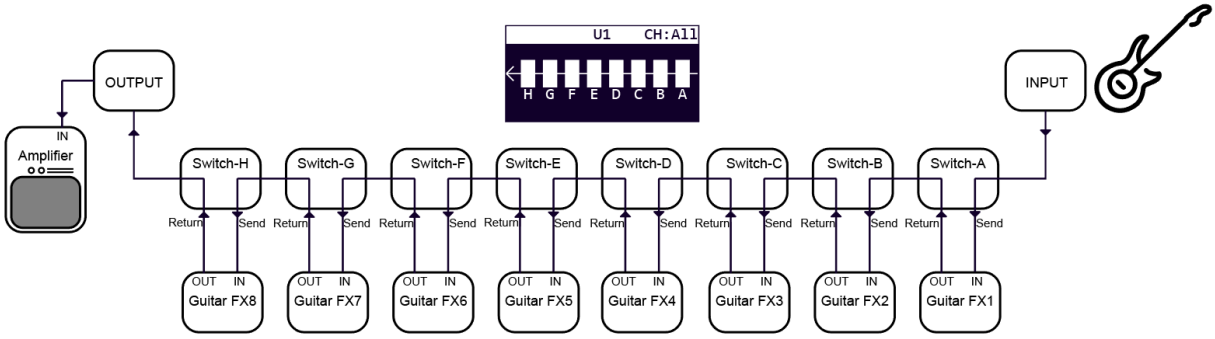
2) **Main interface:** After the product is powered on, it will enter the main interface, as shown in the figure:



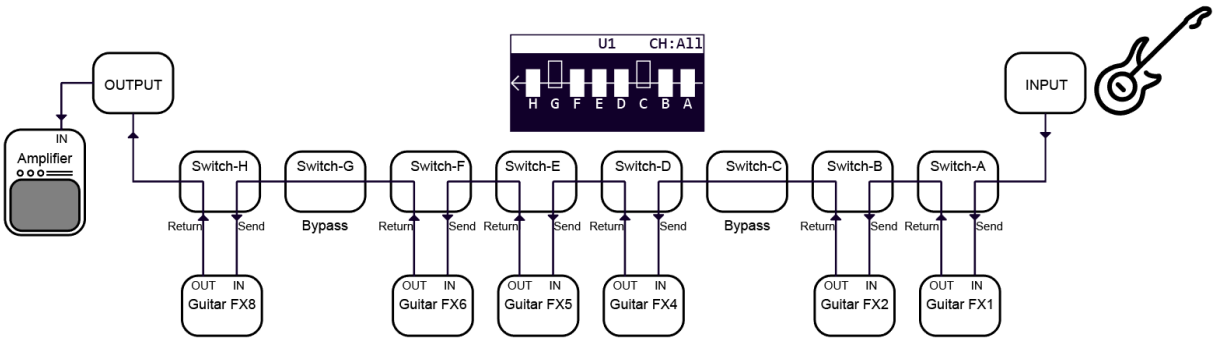
Name	Parameter	Description	Operate
USB Status	/	When connecting the USB DEVICE port to the computer, "D" is displayed. When connecting the USB HOST port to a USB instrument, "H" is displayed.	/
User	U1~U16	This product has 16 users. Each user can set MIDI channels independently. Each user can learn 10 MIDI messages, which means a maximum of 16 x 10 MIDI messages can be learned.	On the main interface, click ▲/▼ to switch users.
MIDI Channel	1~16,All	Displays the MIDI channel the product is currently working on. 1~16: The specific MIDI channel the product is currently working on. All: The product responds to messages from all MIDI channels.	Press and hold the "▲ /Menu" button for 3 seconds to enter the menu settings.
Effect Switch	A~H	Displays the on/off status of the effector. Solid white means opening the corresponding "Return/Send" audio port, and blank means bypassing the audio port.	Click the "SWITCH A~H" button to quickly enable/bypass the audio port.
Learn Mode	/	●Learn externally input MIDI PC/CC messages. ●When the learned MIDI message is CC, there is no operation when the CC value = 0~63, and the switch combination is turned on when the CC value = 64~127. ●When the learned MIDI message is PC, the switch combination will be turned on when receiving the PC value. ●Each user can learn 10 MIDI messages. ●For example, "Wait for MIDI 1…" ~ "Wait for MIDI 10…". When more than 10 MIDI messages are learned, the previously learned MIDI messages will be overwritten. ●When the learned MIDI message is consistent with the previous one, the previously learned MIDI message will take effect. ●After entering the learning mode, click the SWITCH button to exit the learning mode. ●The learned MIDI messages will be saved in the product and can be used next time it is turned on. **(Note: MIDI messages learned by the current user are only available under the current user.)**	●Press and hold "▼ /Learn" for 3 seconds to enter the learning mode. After receiving the MIDI PC/CC message, "OK!" is displayed, indicating that the learning is successful, and it automatically exits the learning mode. ●After entering the learning mode, click the SWITCH button to exit the learning mode.

3) **Use cases**

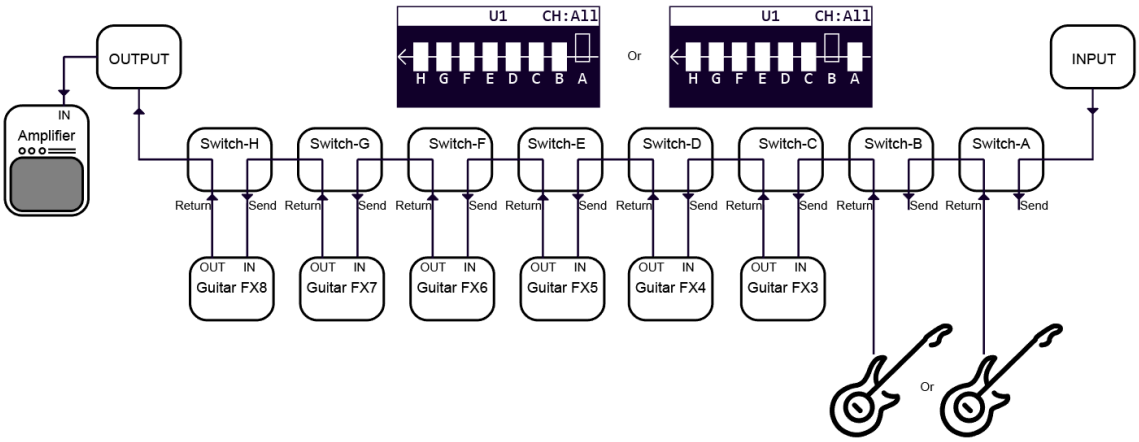
- **Connect up to 8 audio effectors:** MES-8 can support up to 8 external effectors, which are eventually mixed and output to the power amplifier. The display and audio chain are as shown in the figure.



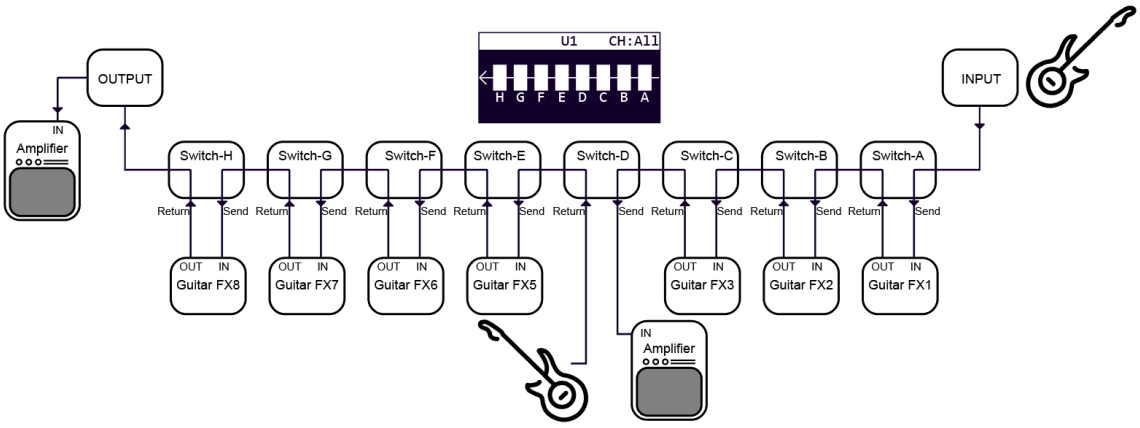
- **True-Bypass audio port:** MES-8 can quickly and bypass the audio port. By learning MIDI/PC messages, different effect combinations can be quickly called through external MIDI devices. As shown, switches G and C have been bypassed.



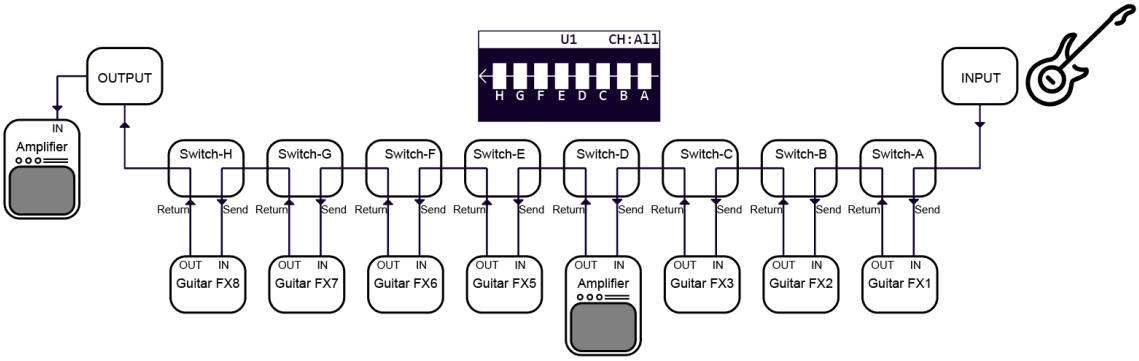
- **Switching guitar input:** MES-8 can quickly switch to playing different instruments. As shown in the picture, you can switch the guitar using switch B or switch A.



- **Connect multiple audio chains:** MES-8 has multiple audio ports. Users can configure and connect multiple guitars, effects processors and amplifiers as needed. Each effect link exists independently.

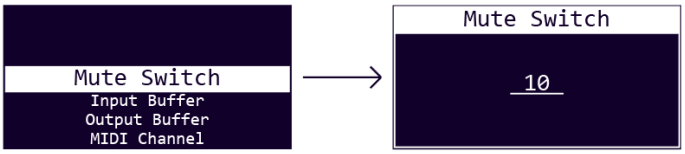
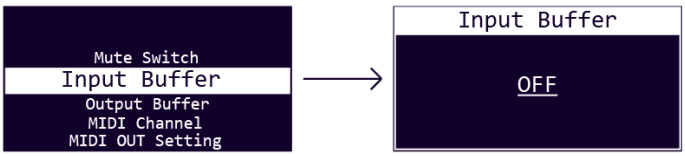
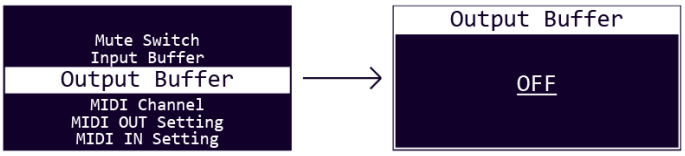
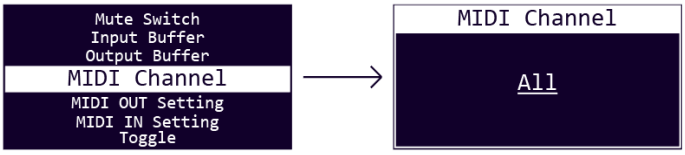
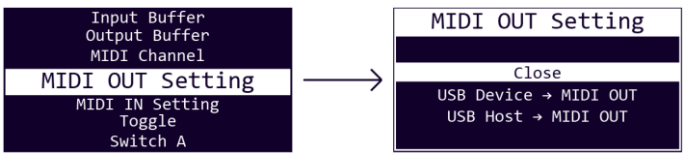


- **Connect multiple amplifiers:** MES-8 can connect multiple power amplifiers to the link. As shown in the figure, Switch D is connected to the power amplifier. Note that the audio needs to be returned to MES-8.



4) Parameter configuration

After long pressing the "▲/Menu" button for 3 seconds, enter the menu configuration parameters, click ▲/▼ to switch to different options, click "SWITCH-E" to confirm the option/confirm configuration, click "SWITCH-D" to return to the previous level, If there is no operation for 30 seconds, it will automatically return to the main interface.

	Parameter	Description
Mute Switch	1~100, OFF, default 10, unit: millisecond(ms).	Configure the audio port switch to mute the OUTPUT port when operating enable/bypass to prevent the output of noise. 
Input Buffer	OFF/ON, default OFF	The INPUT port of the product has a built-in input buffer, which can improve the input driving capability of external audio when opened. 
Output Buffer	OFF/ON, default OFF	The OUTPUT port of the product has a built-in output buffer, which can improve the driving capability of the output audio when opened. 
MIDI Channel	1~16, All, default All	Configure the MIDI channel that the current user is working on. 1~16: The specific MIDI channel the product is currently working on. All: The product responds to messages from all MIDI channels. 
MIDI OUT Setting	/	Configure the MIDI message source output by the product MIDI OUT. Close: Close MIDI OUT output. USB Device→MIDI OUT: Output the MIDI messages received by USB Device. USB Host→MIDI OUT: Output the MIDI messages received by USB Host. 
MIDI IN Setting		Configure MIDI message routing for MIDI IN. Close: Close MIDI IN routing. MIDI IN → USB Device: Route MIDI IN to USB Device output. MIDI IN → USB Host: Route MIDI IN to USB Host output.

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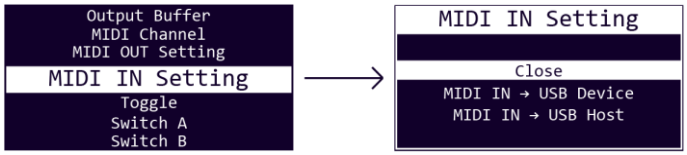
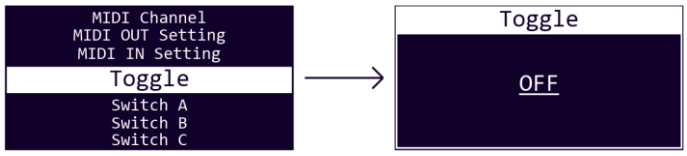
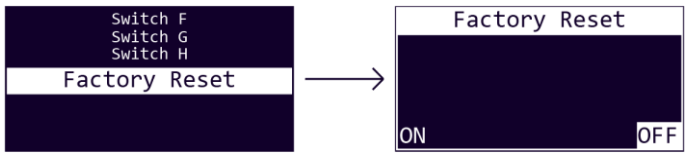
<tr><td></td><td></td><td> 
</td></tr>
<tr><td>Toggle</td><td>/</td><td>After turning on Toggle:
● Audio switch combination control: When the MIDI message of the learned audio port switch combination is PC, the audio switch combination will be turned on when the PC message is received for the first time, and all audio ports will be bypassed when the PC message is received again.
● Audio switch combination control: When the MIDI message of the learned audio port switch combination is CC, the audio switch combination is turned on when the first CC value = 64~127 message is received, and all audio is bypassed when the CC value = 64~127 is received again.
● Single audio switch: When the MIDI message of the controlled audio port switch is PC, the audio port will be opened when the PC message is received for the first time, and the audio port will be bypassed when the PC message is received again.
● Single audio switch: When the MIDI message of the controlled audio port switch is CC, the audio port will be enabled when the first CC value = 64~127 message is received, and the audio port will be bypassed when the CC value = 64~127 message is received again.
 
</td></tr>
<tr><td rowspan="3">Switch A~H</td><td>Enable: OFF/ON, default OFF</td><td rowspan="3">After opening, the corresponding audio port can be enabled / bypassed through the MIDI message.
(Note: When the MIDI message in learning mode is the same as the MIDI message of a single audio port switch, the control in learning mode will be the main one.)
Status: Set the MIDI message type controlled.
CC/PC No: Set CC control serial number, or PC serial number.
 
</td></tr>
<tr><td>Status: PC/CC, default CC</td></tr>
<tr><td>CC/PC No: 0~127</td></tr>
<tr><td>Factory Reset</td><td>OFF/ON</td><td>Restore MES-8 to default configuration. All learned MIDI messages will be cleared.
 
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5. 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.

6. Questions & Answers

1) Question: Computer USB cannot recognize the device.
   Answer: MES-8 is a USB-compliant MIDI devices can be plug-and-play on most computers without installing a driver. If your computer lacks a MIDI driver, try to install the MIDI driver, installation method: https://windowsreport.com/install-midi-drivers-pc/

2) Question: Can the USB HOST port supply power to USB MIDI device?
   Answer: Yes, but pay attention to whether the power input of "DC IN" can meet the working requirements of USB MIDI device.

3) Question: The USB HOST port does not work.
   Answer: Please follow the steps below:

- Make sure that the MES-8 power supply is normal. If you use the USB HOST port to power USB devices, please make sure that the DC IN power can meet the working requirements of the USB device.
- Make sure whether the USB MIDI device is a USB class-compliant device. This device does not need to install a driver when connected to the computer. If it is not a USB class-compliant device, it may not be compatible with this product.
- Make sure that after the USB port is connected to the USB MIDI device, the display shows "H" flashing. If "H" is not displayed, or MIDI messages cannot be transmitted after "H" is displayed, please contact customer service for resolution.

4) Question: The MIDI OUT/IN connector does not work.
   Answer: Please enter the menu to check whether the MIDI OUT/IN Setting is correct.

5) Question: MES-8 has learned MIDI messages, but the switch combination cannot be called using this MIDI message.
   Answer: Please follow the steps below:

- Check whether the MIDI input channel is correct.
- Confirm whether the user selection is correct and the learned MIDI messages are effective for this user.
- If it is a MIDI CC controller, please ensure that the CC value = 64~127 before calling the switch combination.

If the problem is not resolved, please contact customer service.

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