

8x8 18Gb Fast Matrix Switcher

User Manual



MP-FSC88M-H2

8x8 18Gb Fast Matrix Switcher



All Rights Reserved

Version: MP-FSC88M-H2 _2026V1.0

8x8 18Gb Fast Matrix Switcher

Preface

Read this user manual carefully before using the product. Pictures shown in this manual are for reference only. Different models and specifications are subject to real product.

This manual is only for operation instruction, please contact the local distributor for maintenance assistance. The functions described in this version were updated till December, 2025. In the constant effort to improve the product, we reserve the right to make functions or parameters changes without notice or obligation. Please refer to the dealers for the latest details.

FCC Statement

This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. It has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a commercial installation.

Operation of this equipment in a residential area is likely to cause interference, in which case the user at their own expense will be required to take whatever measures may be necessary to correct the interference.

Any changes or modifications not expressly approved by the manufacture would void the user's authority to operate the equipment.



SAFETY PRECAUTIONS

To ensure the best from the product, please read all instructions carefully before using the device. Save this manual for further reference.

- Unpack the equipment carefully and save the original box and packing material for possible future shipment
- Follow basic safety precautions to reduce the risk of fire, electrical shock and injury to persons.
- Do not dismantle the housing or modify the module. It may result in electrical shock or burn.
- Using supplies or parts not meeting the products' specifications may cause damage, deterioration or malfunction.
- Refer all servicing to qualified service personnel.
- To prevent fire or shock hazard, do not expose the unit to rain, moisture or install this product near water.
- Do not put any heavy items on the extension cable in case of extrusion.
- Do not remove the housing of the device as opening or removing housing may expose you to dangerous voltage or other hazards.
- Install the device in a place with fine ventilation to avoid damage caused by overheat.
- Keep the module away from liquids.
- Spillage into the housing may result in fire, electrical shock, or equipment damage. If an object or liquid falls or spills on to the housing, unplug the module immediately.
- Do not twist or pull by force ends of the cable. It can cause malfunction.
- Do not use liquid or aerosol cleaners to clean this unit. Always unplug the power to the device before cleaning.
- Unplug the power cord when left unused for a long period of time.
- Information on disposal for scrapped devices: do not burn or mix with general household waste, please treat them as normal electrical wastes.

8x8 18Gb Fast Matrix Switcher

Table of Contents

1. Product Introduction	2
1.1 Features	2
1.2 Package List	2
2. Specification	3
3. Panel Description	4
3.1 Front Panel	4
3.2 Rear Panel	6
4. Panel Drawing	7
5. System Connection	7
5.1 Usage Precaution	7
5.2 System Diagram	8
5.3 Connection Steps	8
6. Panel Control	8
6.1 I/O connection switching	8
6.2 I/O connection Inquiry	9
6.3 LOCK Function	9
6.4 PRESET RECALL Function	9
6.5 CLEAR Button	9
7. IR Remote Control	9
8. Web-GUI Control	11
8.1 Video	12
8.2 Audio	13
8.3 Configuration	14
8.4 RS232	17
8.5 CEC	17
8.6 Network	19
8.7 Security	20
8.8 Diagnostics	22
9. RS232 Control	23

8x8 18Gb Fast Matrix Switcher

9.1 RS232 Control Software	23
9.2 Basic Settings	23
9.3 RS232 Commands	24
9.3.1 Factory Commands	24
9.3.2 Power Commands	24
9.3.3 AV Commands	25
9.3.4 RS-232 Commands	28
9.3.5 Network Commands	28
9.3.6 CEC Commands	29
9.3.7 System Commands	31
10. Customer Service	34

8x8 18Gb Fast Matrix Switcher

1. Product Introduction

The MP-FSC88M-H2 is a professional 8x8 18Gbps Fast Matrix Switcher . It includes 8 HDMI inputs, 8 HDMI outputs and each output with down-scaling function, which is designed for switching two HDMI2.0 and HDCP2.2 compliant signals. It also features 8 SPDIF and 8 analog audio outputs for audio matrix.

The matrix switcher features comprehensive EDID management and advanced HDCP handing to ensure maximum functionality with a wide range of video sources.

The matrix switcher not only supports bi-directional IR, RS232 extension but also has IR, RS232, and TCP/IP(Web-GUI) control options.

1.1 Features

- 8x8 fast matrix switching up to 2-4 seconds.
- Supports manual/auto switching.
- Video up to 18Gbps 4K@60 4:4:4.
- Supports 4K@30 Dolby vision.
- Supports audio de-embedded for all outputs.
- All audio outputs volume adjustable.
- Supports 4K to1080p down-scaling for each output.
- Supports CEC control for source & link.
- Built-in EDID,EDID learning and custom EDID.
- Control via buttons, IR, RS232 and TCP/IP(Web-GUI).

1.2 Package List

- 1 x MP-FSC88M-H2
- 2 x Mounting Ears with 6 Screws
- 4 x Round silver stamping machine feet
- 1 x IR Remote
- 1 x IR Receiver
- 1 x RS232 Cable (3-pin to DB9)
- 8 x 5-pin phoenix
- 1 x Power Adaptor (24V DC 1.5A)
- 1 x User Manual

Note: Please contact your distributor immediately if any damage or defect in the components is found.

2. Specification

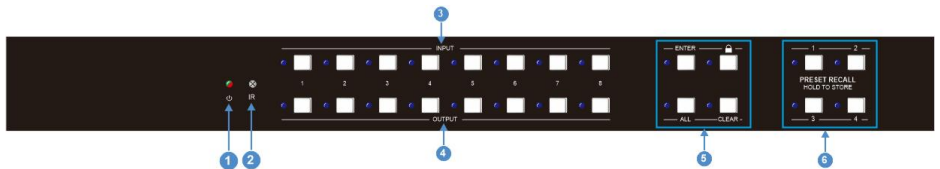
Video Input	
Connector	8x HDMI Type A
Version	HDMI 2.0
Resolution	Up to 4K@60Hz 4:4:4
Audio	LPCM 7.1 audio, Dolby Atmos®, Dolby® TrueHD, Dolby Digital® Plus, DTS:X™, and DTS-HD® Master Audio™ pass-through
HDCP	HDCP 2.2 and backward compatibility
Video Output	
Connector	8x HDMI Type A
Version	HDMI 2.0
Resolution	Up to 4K@60Hz 4:4:4
Audio	LPCM 7.1 audio, Dolby Atmos®, Dolby® TrueHD, Dolby Digital® Plus, DTS:X™, and DTS-HD® Master Audio™ pass-through
HDCP	HDCP 2.2 and backward compatibility
Downscaling	Output1~Output8
Analog Audio	
Frequency Response	20Hz-20kHz
THD+N	<0.05%
SNR	>80dB
Crosstalk	<-80dB
Digital Audio	
Frequency Response	20Hz-20kHz
THD+N	<0.05%
SNR	>90dB
Crosstalk	<-70dB
Control	
RS-232	Via the RS-232 commands.

8x8 18Gb Fast Matrix Switcher

IR EYE	Via the third-party device.
IR IN	Via the remote control.
Web-GUI	Via the Web-GUI.
Button	Via the front panel buttons.
General	
Power Supply	DC24V 1.5A
Operation Temperature	-5°C ~ +55°C
Storage Temperature	-20°C ~ +70°C
Relative Humidity	0% ~ 80%
Standby Power Consumption	1.67W
Dimension (W*H*D)	436.4mm x 44mm x 160mm
Net Weight	2.315kg

3. Panel Description

3.1 Front Panel



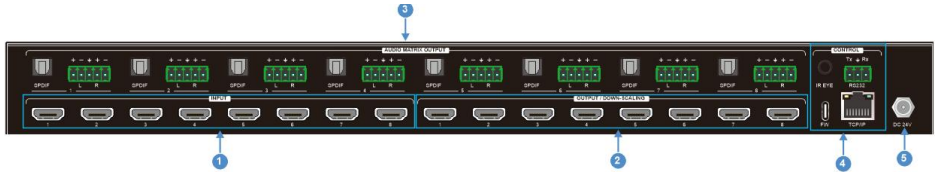
No.	Name	Description
①	Power Indicator	• Illuminates green when device powered on; • Turns red in standby mode.
②	IR sensor	Built-in IR sensor, receives IR signal sent from IR remote.
③	INPUT	• 8 x input selector buttons, 8 x blue led; press one of buttons to switch input source .
④	OUTPUT	• 8 x output selector buttons, 8 x blue led; press one of buttons to switch output source .

8x8 18Gb Fast Matrix Switcher

⑤	ENTER button	Confirm operation.
	LOCK button	Press this button for 3 seconds to lock/unlock all front buttons.
	ALL button	Select all outputs to convert an input to all outputs:→ Press INPUTS 1 + ALL + ENTER
	CLEAR button	Withdraw button.
⑥	PRESET RECALL HOLD TO STORE	• Press and hold the button 1~8 to save the current switching status to the corresponding preset 1~8. • Press the button 1~4 to recall the saved preset 1~8.

8x8 18Gb Fast Matrix Switcher

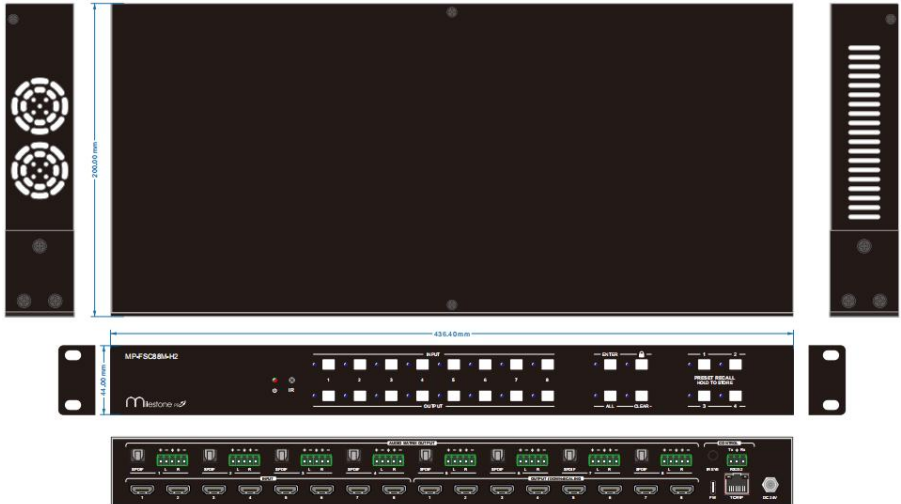
3.2 Rear Panel



No.	Name	Description
①	INPUTS	8 x HDMI input ports, connects with HDMI sources.
②	OUTPUTS	8 x HDMI output ports, connects with HDMI displays. each HDMI port have down-scaling function.
③	AUDIO MATRIX OUTPUTS	SPDIF : 8 x SPDIF port,audio output ports for de-embedded HDMI audio. L&R : 8 x 5-pin phoenix ,audio output ports for de-embedded HDMI audio.
④	IR EYE	Connects with external IR receiver for using the IR remote to control the Matrix Switcher.
	RS232	3-pin terminal block to connect the RS232 control device (e.g. PC) or a device to be controlled by RS232 commands.
	FIREWARE	USB-C port for updating firmware.
	TCP/IP	RJ45 port to connect the control device (e.g. PC) to control the matrix by GUI.
⑤	DC 24V	Connect with 24VDC 1.5A power adaptor.

8x8 18Gb Fast Matrix Switcher

4. Panel Drawing



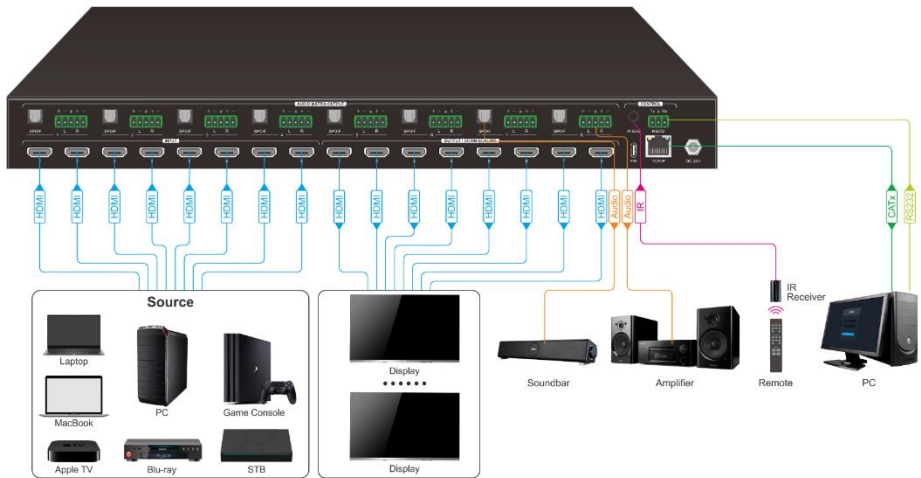
5. System Connection

5.1 Usage Precaution

- Make sure all components and accessories included before installation.
- System should be installed in a clean environment with proper temperature and humidity.
- All of the power switches, plugs, sockets, and power cords should be insulated and safe.
- All devices should be connected before power on.

8x8 18Gb Fast Matrix Switcher

5.2 System Diagram



5.3 Connection Steps

- Step 1: Use the HDMI cable connects the HDMI source device to the **INPUT port**.
- Step 2: Use the HDMI cable connects the display to the **OUTPUT port**.
- Step 3: Use the audio cable connects the speaker to the **AUDIO OUTPUT port**.
- Step 4: Use RS-232 cable connects the PC to the **RS232 port**.
- Step 5: Use IR receiver connects the peripherals to the **IR EYE port**.
- Step 6: Connect the power adapter to the **POWER port**.

6. Panel Control

6.1 I/O connection switching

The front panel features eight input selection buttons and eight output selection buttons for switching I/O connection.

1) To convert 1 input to 1 output:

Example: Input 1 to Output 3

→ Press **INPUT 1 + OUTPUT 3 + ENTER** button.

2) To convert 1 input to 2~3 outputs:

Example: Input 1 to Output 2, Output 3, Output 7.

8x8 18Gb Fast Matrix Switcher

→ Press **INPUT 1 + OUTPUT 2, Output 3, Output 7 + ENTER** button.

3) To convert 1 input to all outputs:

Example: Convert Input 2 to all outputs

→ Press **INPUT 2 + ALL** button + **ENTER** button.

NOTE: Indicators of the pressed buttons will blink blue for three times if the conversion is done, then it will be off. If the conversion failed, they will be off immediately.

6.2 I/O connection Inquiry

Press **OUTPUTS** button 1, 2, 3 or 8 to inquiry its corresponding input channel. Pressing the button for a specific OUTPUT channel will illuminate both the OUTPUT indicator and the indicator for this corresponding source. Releasing the button will simultaneously turn off both indicators.

6.3 LOCK Function

Long press the **LOCK** button for three seconds, all buttons on the front panel disable to work. And then long press the **LOCK** button for three seconds again or unlock on GUI control, the front panel button will unlock.

6.4 PRESET RECALL Function

Press and hold the **PRESET 1~4** at least three seconds to save the current switching status to the corresponding preset 1~4.

Press the **PRESET 1~4** to recall the saved preset 1~4.

Note: The matrix switcher supports nine presets, but only preset 1~4 can be saved and recalled by button control. Please manage other preset by GUI control or RS232 control.

6.5 CLEAR Button

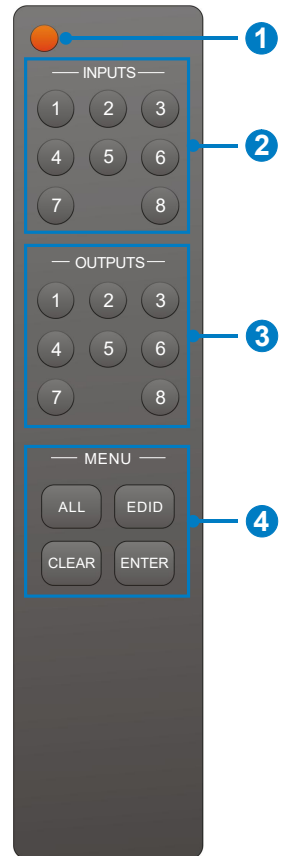
Please press the **CLEAR** button if want to withdraw an operation before the **ENTER** button comes into effect, meanwhile, the matrix will return to the previous status.

7. IR Remote Control

The Matrix Switcher features one built-in IR receiver to receive IR signal from IR remote to enable IR control. If the external IR receiver or other IR control device need to be used, the IR EYE port on rear panel can be connected.

8x8 18Gb Fast Matrix Switcher

- ① Standby button:
Press it to enter/ exit standby mode.
- ② INPUTS:
Input channel selection buttons, same with the corresponding front panel buttons
- ③ OUTPUTS:
Output channel selection buttons, same with the corresponding front panel buttons.
- ④ Menu buttons:
 - **ALL**: Select all inputs/outputs.
To convert an input to all outputs:
Example: Input 1 to all Outputs:
→ Press INPUT 1 + ALL + ENTER
 - **EDID management button**:
 - 1) One input port follows the EDID data from the first sink port.
Example: Input 2 learns EDID data from output 1:
→ Press EDID + INPUT 2 + OUTPUT 1+ ENTER
 - 2) All input ports learn EDID data from the first sink port.
Example: All input ports learn EDID data from output 1:
→ Press EDID + ALL + OUTPUT 1 + ENTER
 - **CLEAR**: Withdraw button.
 - **ENTER**: Confirm operation.



8. Web-GUI Control

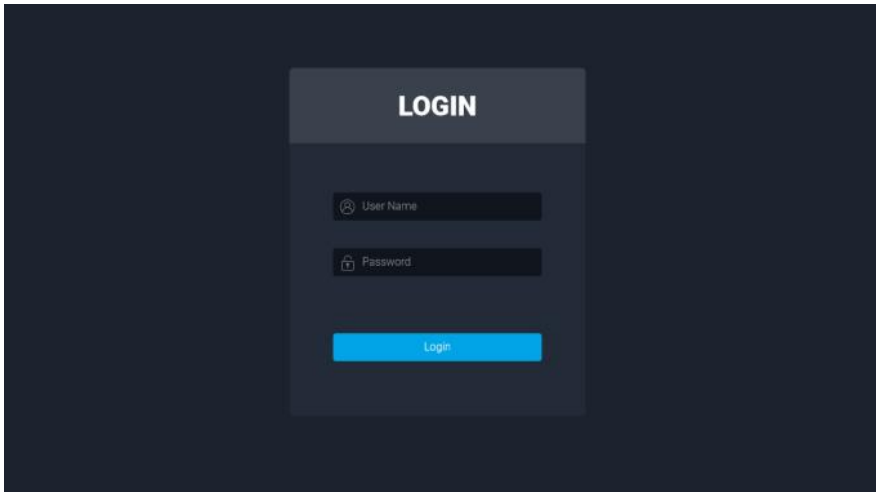
Connect the TCP/IP port of the MP-FSC88M-H2. TCP/IP supports static IP by default.

If connect the device directly to the PC or using the static IP, please enter the TCP/IP:

192.168.0.178

If it is DHCP, please use the assigned IP address.

Please type the IP address in the address bar of the browser to enter the Web-GUI Login interface.



Then type the User Name and the Password. The login information is as follows:

User Name: admin

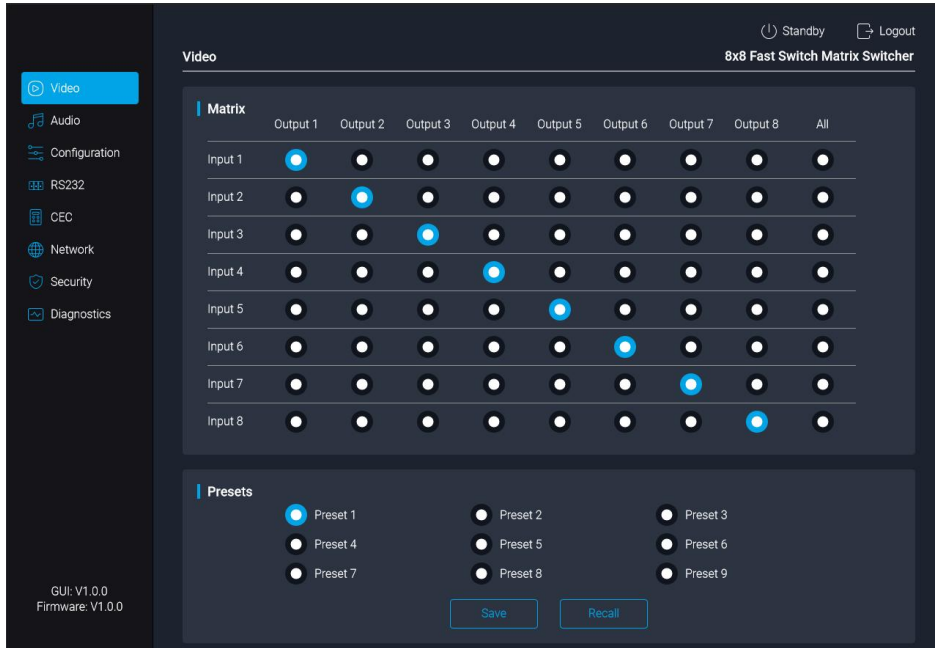
Password: Admin123@

Last, click Login to enter the main interface.

Note: To protect the safety of the device, please change the default password in time.

8x8 18Gb Fast Matrix Switcher

8.1 Video



Use the 8x8 button grid on the page to set which inputs are directed to which outputs. For example, clicking the button on the Input 1 row and Output 1 column, directs input 1 to output 1.

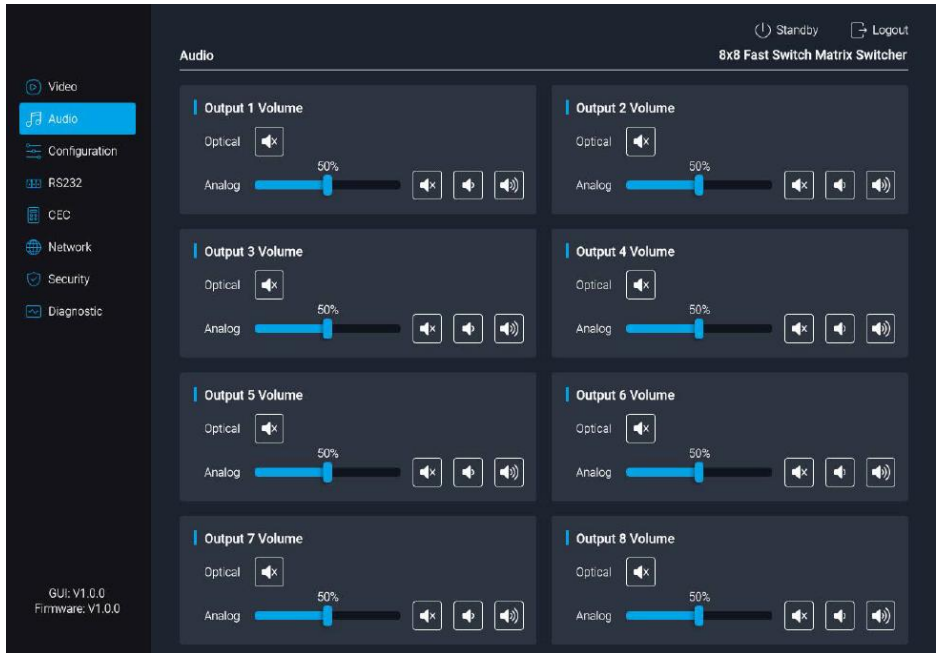
Use the 9 numbered buttons under scene area to save and load layout presets.

- To save a given layout, first click one of the numbered buttons, then click the **Save** button.
- To load a previously saved layout, first click one of the numbered buttons, then click the **Recall** button.



8.2 Audio

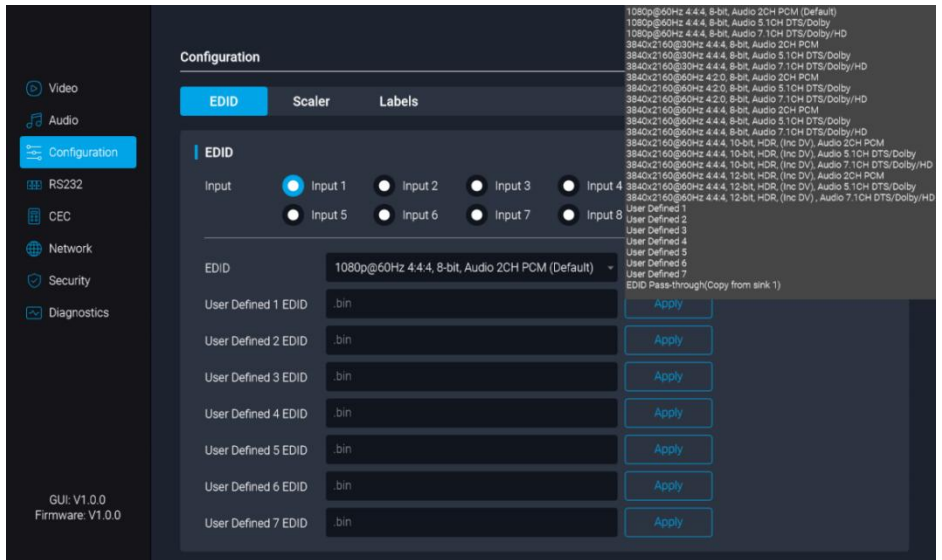
1) Audio Volume



- Eight analog L/R audio & eight digital SPDIF to control their outputs volume. The former can control the volume level, while the latter can only choose whether to mute or not.

8.3 Configuration

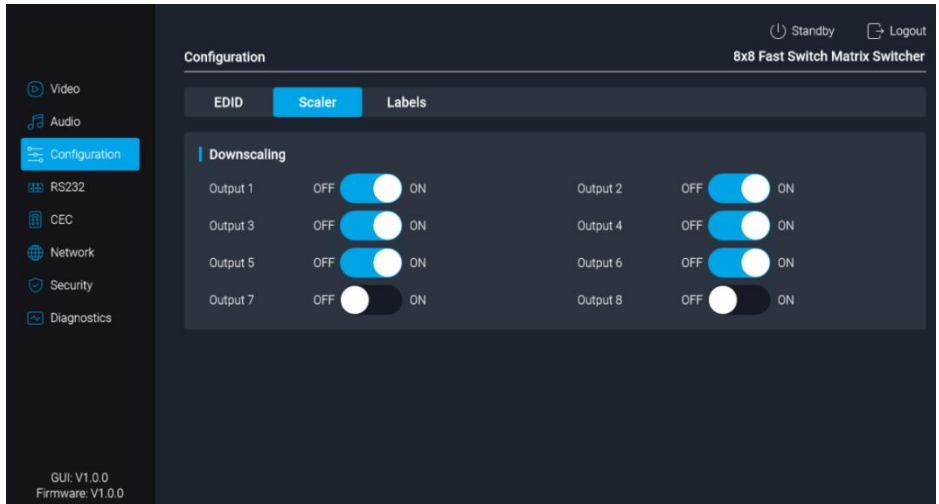
1) EDID Management



- Select the corresponding input source and perform EDID management. There are three EDID management modes:
 1. Learning mode: Learning display end 1.
 2. Built-in 18 types of EDID to control the resolution of HDMI signals.
 3. Supports 7 types of user-defined EDID.
- Select the compatible built-in EDID for the selected input source.
- Upload user-defined EDID by FW

8x8 18Gb Fast Matrix Switcher

2) Scaler



- Select the outputs downscaling by the buttons:output1~output8. There are eight buttons control the outputs downscaling function, not enabled by default.

3) Labels

- Setting the name of inputs and outputs:
 1. Video Input:setting the name of Input1~Input8.
 2. Video output:setting the name of Output1~Output8.
 3. Audio Output:setting the name of Output1~Output8.
 4. Presets:setting the name of Preset1~Preset9.
- Define the names that need to be set for these several types,press the button of **Confirm**,the settings will be restored.If you won't saved them,you can press the **Cancel** button, and if you want to reset it you can press the button of **Default**.

8x8 18Gb Fast Matrix Switcher

Video

Audio

Configuration

RS232

CEC

Network

Security

Diagnostics

Standby

Logout

Configuration8x8 Fast Switch Matrix Switcher

EDID

Scaler

Labels

Video Input

Input 1

Input 1

Input 2

Input 2

Input 3

Input 3

Input 4

Input 4

Input 5

Input 5

Input 6

Input 6

Input 7

Input 7

Input 8

Input 8

Video Output

Output 1

Output 1

Output 2

Output 2

Output 3

Output 3

Output 4

Output 4

Output 5

Output 5

Output 6

Output 6

Output 7

Output 7

Output 8

Output 8

Audio Output

Output 1

Output 1 Volume

Output 2

Output 2 Volume

Output 3

Output 3 Volume

Output 4

Output 4 Volume

Output 5

Output 5 Volume

Output 6

Output 6 Volume

Output 7

Output 7 Volume

Output 8

Output 8 Volume

Presets

Preset 1

Preset 1

Preset 2

Preset 2

Preset 3

Preset 3

Preset 4

Preset 4

Preset 5

Preset 5

Preset 6

Preset 6

Preset 7

Preset 7

Preset 8

Preset 8

Preset 9

Preset 9

Confirm

Cancel

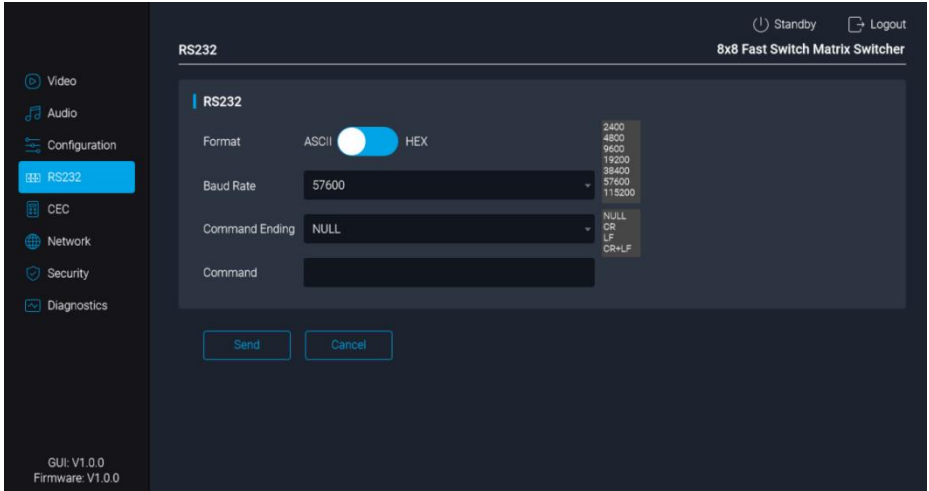
Default

GUI: V1.0.0
Firmware: V1.0.0

8x8 18Gb Fast Matrix Switcher

8.4 RS232

- ASCII or HEX command format can be selected.
- Baud Rate: Supports 2400, 4800, 9600, 19200, 38400, 57600(default) or 115200.
- Command Ending: NULL, CR, LF or CR+LF can be chosen.
- Command: Type the command in this box to control the third-party device which is connected to the RS232 port of the switcher.



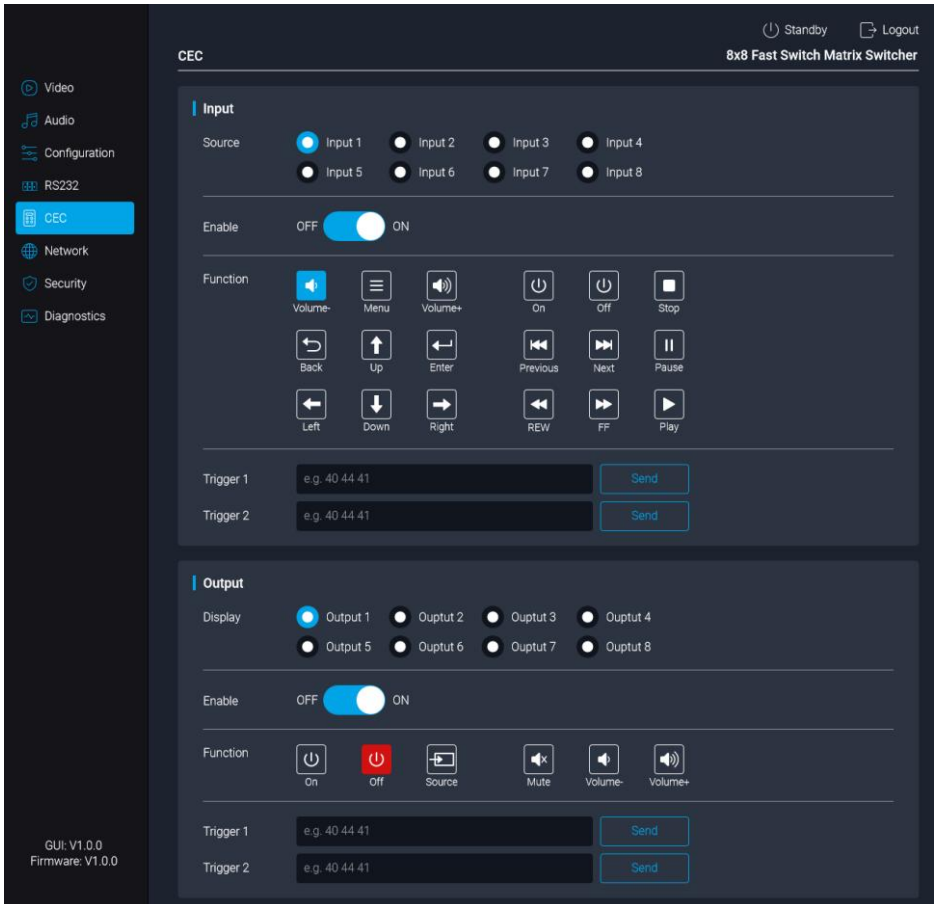
8.5 CEC

If the input source devices, output display devices support CEC, they can be controlled via the following CEC interface. The CEC control function may be enabled or disabled via the Enable button.

When the CEC control function is enabled:

- 1) **Input Source Device Control**
- 2) **Output Display Control**

8x8 18Gb Fast Matrix Switcher



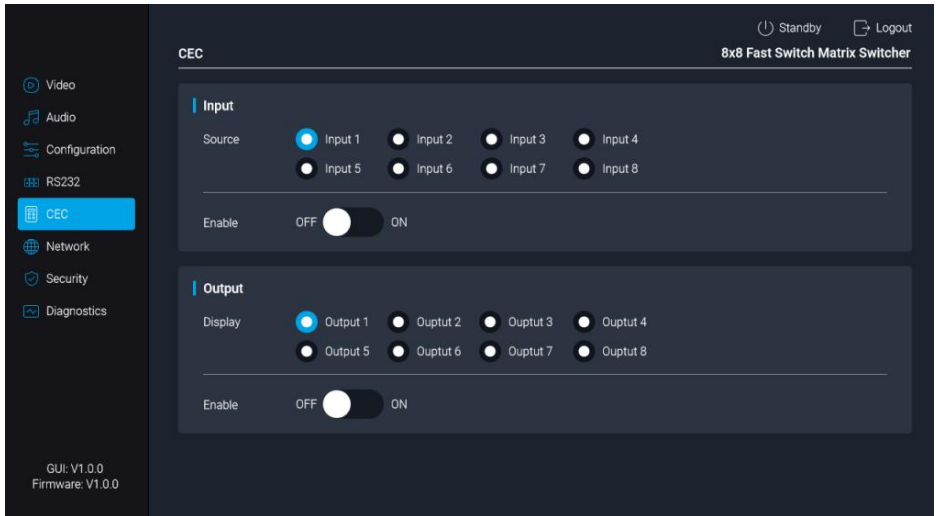
- Select one input source device to be controlled, and then press function buttons.
- Select one output display to be controlled, and then press function buttons.

Note: It can not control two or more input source devices simultaneously.

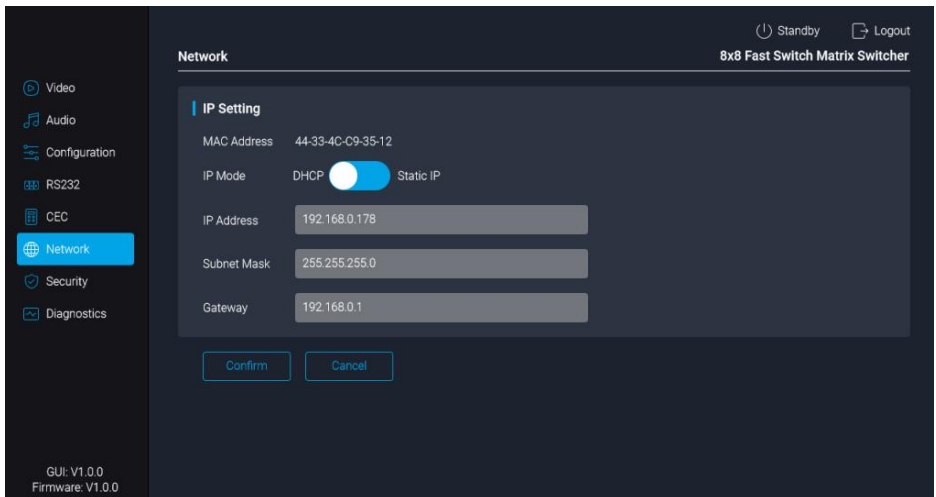
8x8 18Gb Fast Matrix Switcher

When the CEC control function is disabled:

The Input Source and Output Display both can be selected.



8.6 Network



- Static IP or Dynamic Host Configuration Protocol (DHCP).
- Modify the static IP Address, Subnet Mask, and Gateway.

8x8 18Gb Fast Matrix Switcher

Video

Audio

Configuration

RS232

CEC

Network

Security

Diagnostics

Standby

Logout

8x8 Fast Switch Matrix Switcher

IP Setting

MAC Address44-33-4C-C9-35-12

IP ModeDHCPStatic IP

IP Address192.168.0.178

Subnet Mask255.255.255.0

Gateway192.168.0.1

ConfirmCancel

GUI: V1.0.0

Firmware: V1.0.0

8.7 Security

8x8 18Gb Fast Matrix Switcher

Video

Audio

Configuration

RS232

CEC

Network

Security

Diagnostics

Standby

Logout

8x8 Fast Switch Matrix Switcher

Security

Password

Old Password

New Password

Confirm Password

Password must have a minimum of 8 characters, including at least 1 number, 1 lower case, 1 upper case and 1 special character.

Confirm

Cancel

Firmware Upgrade

Firmware Upgrade

MCU

Switch IC

FW File Path

C:\

Confirm

Front Panel Lock

Setting

OFF

ON

Auto Standby

Enable

OFF

ON

Delay Time

15

Mins (1~180 min)

Factory Default

Factory Default

Reset

GUI: V1.0.0

Firmware: V1.0.0

- Modify the login password.
- Firmware Upgrade.
- Lock or unlock the front panel buttons.
- Auto Standby button and standby time setting.
- Factory Default button.

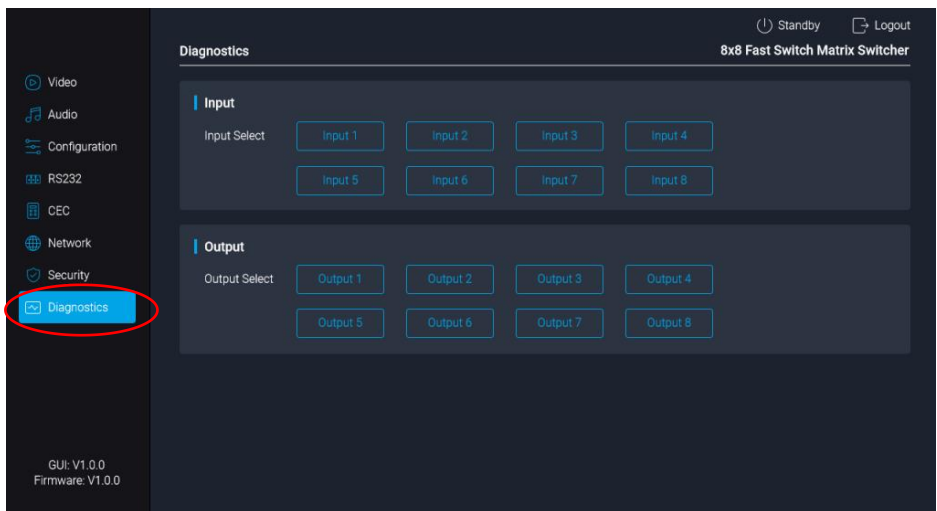
8.8 Diagnostics

The Diagnostics Function Page: Primarily designed for diagnosing input and output modules.

1. Input Module Diagnostics: Queries the connection status of the corresponding input source, EDID details of the video signal, and transmission bandwidth.

2. Output Module Diagnostics: Queries information about the corresponding output port, including:

- Modify the login password.
- The input source from which the output signal originates
- Display information
- Output EDID
- CEC control status (On/Off)
- CEC Mode
- Output scaling functionality
- Transmission bandwidth



Select the Input 1~8/Output 1~8, information about the corresponding module will be displayed in a pop-up window.

9. RS232 Control

9.1 RS232 Control Software

- **Installation:** Copy the control software file to the control PC.
- **Uninstallation:** Delete all the control software files in corresponding file path.

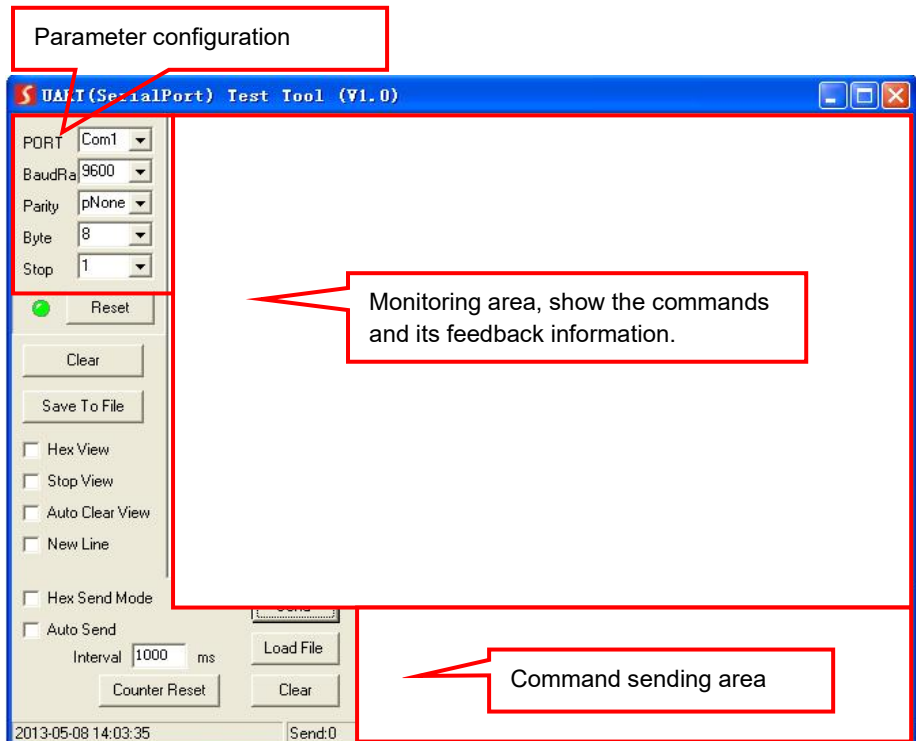
9.2 Basic Settings

Firstly, connect MP-FSC88M-H2 with necessary input devices and output devices. Then, connect it with a PC installed RS232 control software. Double-click the software icon to run this software.

Here we take the software **CommWatch.exe** as example. The icon is showed as below:



The interface of the control software is showed as below:



8x8 18Gb Fast Matrix Switcher

Please set the parameters of COM number, bound rate, data bit, stop bit and the parity bit correctly, and then you are able to send command in command sending area. For related parameters, please refer to 8.3 RS-232 Command.

9.3 RS232 Commands

Baud rate: 57600 (default)

Data bit: 8

Stop bit: 1

Parity bit: NONE

Command terminator: <CR><LF>

Error command feedback code: <Command Error
<Out Of Range

Note:

1. Commands are not case sensitive and can automatically identify mixed case commands;
2. The "0" in front of the valid value can be ignored, for example: 01 and 1 inputs are both normal variable values;
3. The space between the command and the variable can be ignored, for example: >SetVideo01 and >SetVideo 01 commands can be sent effectively.

9.3.1 Factory Commands

Command	Function	Example & Feedback
>SetDeviceModel:xx x	Set the product name	>SetDeviceModel:MP-FSC88M-H2
		<Model:MP-FSC88M-H2
>SetDeviceModelRS T	Get the product name	<Model:MP-FSC88M-H2

9.3.2 Power Commands

Command	Function	Example & Feedback
>SetPower xx	Enter/exit standby mode xx = On, Off Off - standby mode off On - standby mode on	>SetPower On or >SetPower Off
		<Power On or <Power Off
>SetAutoStandby xx	Enable/Disable auto power function xx = On, Off	>SetAutoStandby On

8x8 18Gb Fast Matrix Switcher

	Off - Disable On - Enable	<AutoStandby On
>GetAutoStandby	Get the auto power function status	>GetAutoStandby
		<AutoStandby On
>SetAutoStandbyTime xx	Set auto standby time xx = [1~180] min	>SetAutoStandbyTime 15
		<AutoStandbyTime 15
>GetAutoStandbyTime	Get auto stanby time	>GetAutoStandbyTime
		<AutoStandbyTime 15

9.3.3 AV Commands

Command	Function	Example & Feedback
>SetVideo xx To yy	Switch An Input Video Signal To One Or More Outputs xx = [01-08] : Input Channel yy = [01-08] : Output Channel yy = [00] : All Output Channel	>SetVideo 01 To 01
		<Video OUT 01 IN 01
>GetVideo	Get the current Video switching status of input or output channel	>GetVideo
		<Video OUT 01 02 03 04 05 06 07 08 IN 01 02 03 04 05 06 07 08
>SetEDID xx To yy	Set The EDID Mode xx = [01-08] : Input Channel xx = [00] : Input Channel yy = [00-25] : EDID Mode 00 : 1080p@60Hz, 8-bit, Audio 2CH PCM (Default) 01 : 1080p@60Hz, 8-bit, Audio 5.1CH DTS/DOLBY 02 : 1080p@60Hz, 8-bit, Audio 7.1CH DTS/DOLBY/HD 03 : 3840x2160@30Hz 4:4:4, 8-bit, Audio 2CH PCM 04 : 3840x2160@30Hz 4:4:4, 8-bit, Audio 5.1CH DTS/DOLBY 05 : 3840x2160@30Hz 4:4:4, 8-bit, Audio 7.1CH DTS/DOLBY/HD 06 : 3840x2160@60Hz 4:2:0, 8-bit, Audio 2CH PCM 07 : 3840x2160@60Hz 4:2:0, 8-bit, Audio 5.1CH DTS/DOLBY 08 : 3840x2160@60Hz 4:2:0, 8-bit, Audio 7.1CH DTS/DOLBY/HD 09 : 3840x2160@60Hz 4:4:4, 8-bit, Audio 2CH PCM 10 : 3840x2160@60Hz 4:4:4, 8-bit, Audio 5.1CH DTS/DOLBY 11 : 3840x2160@60Hz 4:4:4, 8-bit, Audio 7.1CH DTS/DOLBY/HD	>SetEDID 01 To 01
		<EDID IN 01 STA 01

8x8 18Gb Fast Matrix Switcher

	12 : 3840x2160@60Hz 4:4:4, 10-bit, HDR, (IncDV), Audio 2CH PCM 13 : 3840x2160@60Hz 4:4:4, 10-bit, HDR, (IncDV), Audio 5.1CH DTS/DOLBY 14 : 3840x2160@60Hz 4:4:4, 10-bit, HDR, (IncDV), Audio 7.1CH DTS/DOLBY/HD 15 : 3840x2160@60Hz 4:4:4, 12-bit, HDR, (IncDV), Audio 2CH PCM 16 : 3840x2160@60Hz 4:4:4, 12-bit, HDR, (IncDV), Audio 5.1CH DTS/DOLBY 17 : 3840x2160@60Hz 4:4:4, 12-bit, HDR, (IncDV), Audio 7.1CH DTS/DOLBY/HD 18 : User Defined 1 19 : User Defined 2 20 : User Defined 3 21 : User Defined 4 22 : User Defined 5 23 : User Defined 6 24 : User Defined 7 25 : EDID Pass-Through (Copy From Sink 1)	
>GetEDID	Get the EDID mode	>GetEDID <EDID IN 01 02 03 04 05 06 07 08 STA 01 01 01 01 01 01 01 01
>SetEDIDMInit	Set All EDID To Default	>SetEDIDMInit <EDID IN 01 02 03 04 05 06 07 08 STA 00 00 00 00 00 00 00 00
>SetUpdateEDID	Upload the user defined EDID EDID Via Rs232 Send To Matrix xx = [01,18] : User EDID 1 [02,19] : User EDID 2 [03,20] : User EDID 3 [04,21] : User EDID 4 [05,22] : User EDID 5 [06,23] : User EDID 6 [07,24] : User EDID 7	>SetUpdateEDID 01 <User EDID ready,Please send EDID data in 10s. <EDID Saved In User EDID 01 <SetUpdateEDID_True <SetUpdateEDID_False
>SetDS On/Off xx	Set The Output Channal Scaler Mode xx = [01-08] : Output Channal xx = [00] : All Supported Output Channal(01-08) On : Auto Downscaling Off : Bypass	>SetDS On 01 Or >SetDS Off 01 <Scale OUT 01 STA On Or <Scale OUT 01 STA Off
>GetDS	Get the output channel scaler mode xx = [01-08] : output channelRun	>GetDS <Scale

8x8 18Gb Fast Matrix Switcher

	command success	OUT 01 02 03 04 05 06 07 08 STA ON
>SetPOut xx yy	Set the output port to 5V xx = On/Off yy = [01-08] : Output HDMI Channal yy = [00] : All Output Channal	>SetPOut Off 01
		<Out5V OUT 01 STA Off
>GetPOut	Get the 5V status of the output channel	>GetPOut <Out5V OUT 01 02 03 04 05 06 07 08 STA Off ON OFF
>GetIn	Get the link status of the input source	<InputLink IN 01 02 03 04 05 06 07 08 STA ON
>SetAudioMute xx On/Off	Enable/Disable Audio Mute xx = [A01-A08] :Analog Audio Output Channal xx = [D01-D08] :Digital Audio Output Channal xx = [A00] :All Analog Audio Output Channal xx = [D00] :All Digital Audio Output Channal xx = [00] : All Audio Output Channal	>SetAudioMute A01 On >SetAudioMute D01 Off
		<AudioMute AUD A01 STA On <AudioMute AUD D01 STA Off
>GetAudioMute	Get Audio Mute Status	<AudioMute AUD A01 A02 A03 A04 A05 A06 A07 A08 STA ON OFF ON OFF AUD D01 D02 D03 D04 D05 D06 D07 D08 STA ON OFF ON OFF
>SetAnalogAudioVol xx To yy	Set The Volume Of Analog Audio xx = [A01-A08] :Analog Audio Output Channal xx = [A00] :All Analog Audio Output Channal yy = [00-100] : Set Volume Level yy = +:Volume Level Increases yy = -:Volume Level Decreases	>SetAnalogAudioVol 01 To 99
		<AnalogAudioVol AUD A01 VOL 99
>GetAnalogAudioVol	Get the volume of analog audio	<AnalogAudioVol AUD A01 A02 A03 A04 A05 A06 A07 A08 VOL 99 99 100 00 30 20 39 46
>SavePreset xx	Save preset	>SavePreset 1
	Save Output-Input Relationship Setting xx = [01-09] : Setting ID	<Preset 1 Video OUT 01 02 03 04 05 06 07 08 IN 01 02 03 04 05 06 07 08
>RecallPreset xx	Call Output-Input Relationship Setting xx = [01-09] : Setting ID	>RecallPreset 1
		<Preset 1 Video OUT 01 02 03 04 05 06 07 08

8x8 18Gb Fast Matrix Switcher

		IN 01 02 03 04 05 06 07 08
>GetPreset xx	Get Output-Input Relationship Setting xx = [01-09] : Setting ID	>GetPreset 1
		<Preset 1 Video OUT 01 02 03 04 05 06 07 08 IN 01 02 03 04 05 06 07 08

9.3.4 RS-232 Commands

>SetRS232Baud xx	Set The RS232 Baud Rate xx = 1 2400, 2 4800, 3 9600, 4 19200, 5 38400, 6 57600 (Default), 7 115200	>SetRS232Baud 6
		<RS232Baud 57600
>GetRS232Baud	Get the RS232 baud rate	>GetRS232Baud
		<RS232Baud 57600
>SendChar_RS232 2,xx,yy:zz..	xx : Ending 1 NULL, 2 CR, 3 LF, 4 CR+LF yy : 1=2400, 2 4800, 3 9600, 4 19200, 5 38400, 6 57600 (Default), 7 115200 zz : The Command To Send(ASCII Format)	>SendChar_RS232,4,6:123456789
		123456789
>SendHex_RS232 32,xx,yy:zz	xx : Ending 1 NULL, 2 CR, 3 LF, 4 CR+LF yy : 1 2400, 2 4800, 3 9600, 4 19200, 5 38400, 6 57600 (Default), 7 115200 zz : The Command To Send(Hex Format)	>SendHex_RS232,4,6:30 31 32 33
		0123

9.3.5 Network Commands

>SetIP <xxx.xxx.xxx.xxx> <yyy.yyy.yyy.yyy> <zzz.zzz.zzz.zzz>	Set IP Address, Mask And Gateway xxx = 0 ~ 255(IP Address) yyy = 0 ~ 255(Subnet Mask) zzz = 0 ~ 255(Gateway)	>SetIP <192.168.0.178> <255.255.255.0> <192.168.0.1>
		<DHCP Off <IP: <192.168.0.176> <255.255.255.0> <192.168.0.1>
>GetIP	Get the IP to access GUI	>GetIP
		<IP: <192.168.0.178> <255.255.255.0> <192.168.0.1>
>SetDHCP ON/OFF	SetDHCP Enable/Disable	>SetDHCP ON
		<DHCP On <IP: <192.168.0.5> <255.255.255.0> <192.168.0.1>
>GetDHCP	Get DHCP enable status	>GetDHCP
		<DHCP ON

8x8 18Gb Fast Matrix Switcher

9.3.6 CEC Commands

>SetCECSrcEnable xx	Send CEC Enable To Source xx = [01-08] Input HDMI Channel xx = [00] : All Input Channel	>SetCECSrcEnable 01
		<CECSrcSta IN 01 STA Off
>SetCECSrcDisable xx	Send CEC Disable To Source xx = [01-08] Input HDMI Channel xx = [00] : All Input Channel	>SetCECSrcDisable 01
		<CECSrcSta IN 01 STA Off
>GetCECSrcSta	Get CEC Enable State To Source	>GetCECSrcSta
		<CECSrcSta IN 01 02 03 04 05 06 07 08 STA On On On On On On On On
>SetCECSrcMenu xx	Send CEC Menu command to source xx = [01-08] : Input HDMI Channel xx = [00] : All Input Channel	>SetCECSrcMenu 01
		<CECSrcMenu 01
>SetCECSrcUp xx	Send CEC UP command to source xx = [01-08] : Input HDMI Channel xx = [00] : All Input Channel	>SetCECSrcUp 01
		<CECSrcUp 01
>SetCECSrcDown xx	Send CEC DOWN command to source xx = [01-08] : Input HDMI Channel xx = [00] : All Input Channel	>SetCECSrcDown 01
		<CECSrcDown 01
>SetCECSrcLeft xx	Send CEC LEFT command to source xx = [01-08] : Input HDMI Channel xx = [00] : All Input Channel	>SetCECSrcLeft 01
		<CECSrcLeft 01
>SetCECSrcRight xx	Send CEC RIGHT command to source xx = [01-08] : Input HDMI Channel xx = [00] : All Input Channel	>SetCECSrcRight 01
		<CECSrcRight 01
>SetCECSrcBack xx	Send CEC BACK command to source xx = [01-08] : Input HDMI Channel xx = [00] : All Input Channel	>SetCECSrcBack 01
		<CECSrcBack 01
>SetCECSrcEnter xx	Send CEC OnTER command to source xx = 01~08 : Input HDMI channel	>SetCECSrcEnter 01
		<CECSrcEnter 01
>SetCECSrcOn xx	Send CEC On command to source xx = [01-08] : Input HDMI Channel xx = [00] : All Input Channel	>SetCECSrcOn 01
		<CECSrcOn 01
>SetCECSrcOff xx	Send CEC Off command to source xx = [01-08] : Input HDMI Channel xx = [00] : All Input Channel	>SetCECSrcOff 01
		<CECSrcOff 01
>SetCECSrcStop xx	Send CEC STOP command to source xx = [01-08] : Input HDMI Channel xx = [00] : All Input Channel	>SetCECSrcStop 01
		<CECSrcStop 01

8x8 18Gb Fast Matrix Switcher

>SetCECSrcPlay xx	Send CEC PLAY command to source xx = [01-08] : Input HDMI Channal xx = [00] : All Input Channel	>SetCECSrcPlay 01
		<CECSrcPlay 01
>SetCECSrcPause e xx	Send CEC PAUSE command to source xx = [01-08] : Input HDMI Channel xx = [00] : All Input Channel	>SetCECSrcPause 01
		<CECSrcPause 01
>SetCECSrcPrev xx	Send CEC PREV command to source xx = [01-08] : Input HDMI Channel xx = [00] : All Input Channel	>SetCECSrcPrev 01
		<CECSrcPrev 01
>SetCECSrcNext xx	Send CEC NEXT command to source xx = [01-08] : Input HDMI Channel xx = [00] : All Input Channel	>SetCECSrcNext 01
		<CECSrcNext 01
>SetCECSrcRewind nd xx	Send CEC rewind command to source xx = [01-08] : Input HDMI Channel xx = [00] : All Input Channel	>SetCECSrcRewind 01
		<CECSrcRewind 01
>SetCECSrcFastForward orward xx	Send CEC fast-forward command to source xx = [01-08] : Input HDMI Channel xx = [00] : All Input Channel	>SetCECSrcFastForward 01
		<CECSrcFastForward 01
>SetCECSrcVOLPlus lus xx	Send CEC volume increase command to source xx = [01-08] : Input HDMI Channel xx = [00] : All Input Channel	>SetCECSrcVOLPlus 01
		<SetCECSrcVOLPlus 01
>SetCECSrcVOLMinus Minus xx	Send CEC volume decrease command to source xx = [01-08] : Input HDMI Channel xx = [00] : All Input Channel	>SetCECSrcVOLMinus 01
		<SetCECSrcVOLMinus 01
>SetCECDisplayEnable nable xx	Send CEC Enable To Displayer xx = [01-08] : Output HDMI Channel xx = [00] : All Output Channel	>SetCECSrcEnable 01
		<CECDisplaySta <OUT 01 <STA On
>SetCECDisplayDisable isable xx	Send CEC Disable To Displayer xx = [01-08] : Output HDMI Channel xx = [00] : All Output Channel	>SetCECDisplayDisable 01
		<CECDisplaySta <OUT 01 <STA Off
>GetCECDisplaySta	Get CEC Enable State To Displayer	>GetCECDisplaySta
		<CECDisplaySta OUT 01 02 03 04 05 06 07 08 STA On On On On On On On On

8x8 18Gb Fast Matrix Switcher

>SetCECDisplayOn xx	Send CEC On Command To Displayer xx = [01-08] : Output HDMI Channel xx = [00] : All Output Channel	>SetCECDisplayOn 01
		<CECDisplayOn 01
>SetCECDisplayOff xx	Send CEC Off Command To Displayer xx = [01-08] : Output HDMI Channel xx = [00] : All Output Channel	>SetCECDisplayOff 01
		<CECDisplayOff 01
>SetCECDisplaySource xx	Send CEC SOURCE Command To Displayer xx = [01-08] : Output HDMI Channel xx = [00] : All Output Channel	>SetCECDisplaySource 01
		<CECDisplaySource 01
>SetCECDisplayMute xx	Send CEC MUTE Command To Displayer xx = [01-08] : Output HDMI Channel xx = [00] : All Output Channel	>SetCECDisplayMute 01
		<CECDisplayMute 01
>SetCECDisplayVOLPlus xx	Send CEC Volume Increase Command To Displayer xx = [01-08] : Output HDMI Channel xx = [00] : All Output Channel	>SetCECDisplayVOLPlus 01
		<CECDisplayVOLPlus 01
>SetCECDisplayVOLMinus xx	Send CEC Volume Decrease Command To Displayer xx = [01-08] : Output HDMI Channel xx = [00] : All Output Channel	>SetCECDisplayVOLMinus 01
		<CECDisplayVOLMinus 01
>CEC <xx,yy,zz,ww>	Send User CEC Command xx = [1-16] 01 - Input HDMI1 02 - Input HDMI2 03 - Input HDMI3 04 - Input HDMI4 05 - Input HDMI5 06 - Input HDMI6 07 - Input HDMI7 08 - Input HDMI8 09 - Output HDMI1 10 - Output HDMI2 11 - Output HDMI3 12 - Output HDMI4 13 - Output HDMI5 14 - Output HDMI6 15 - Output HDMI7 16 - Output HDMI8 yy = Device Address zz = Opcode ww = Command	>CEC <01,04,44,46>
		<CEC send to HDMI Input 1:04,44,46

9.3.7 System Commands

Command	Function	Example & Feedback
>GetFirewareVersion	Get the firmware version	>GetFirewareVersion
		<FW Version:V1.0.0a
		<GUI Version:V1.0.0a

8x8 18Gb Fast Matrix Switcher

		<Switch Ic Version:V1.0.0a <CPLD Version:V1.0.0
>GetStatus	Get system status	>GetStatus
		<System Initialization..... <Power On <MP-FSC88M-H2 <8x8 4K HDMI 2.0 Matrix Switcher <FW Version:V1.0.0a <GUI Version:V1.0.0a <CPLD Version:V1.0.0 <Switch Ic Version:V1.0.0b <KeyLock Off <Video OUT 01 02 03 04 05 06 07 08 IN 04 04 04 04 04 04 04 04 <HDCPMode OUT 01 02 03 04 05 06 07 08 STA 00 00 00 00 00 00 00 00 <EDID IN 01 02 03 04 05 06 07 08 STA 00 00 00 20 00 00 00 00 <AudioMute AUD A01 A02 A03 A04 A05 A06 A07 A08 STA On On On Off Off Off Off Off Off AUD D01 D02 D03 D04 D05 D06 D07 D08 STA Off Off Off Off Off Off Off Off <Volume AUD A01 A02 A03 A04 A05 A06 A07 A08 STA 97 99 99 99 99 99 100 99 <OUT5V OUT 01 02 03 04 05 06 07 08 STA On On On On On On On On <OUTHDPD OUT 01 02 03 04 05 06 07 08 STA On On On On On On On On <InputLink IN 01 02 03 04 05 06 07 08 STA On On On On On

8x8 18Gb Fast Matrix Switcher

		On On On <Scale OUT 01 02 03 04 05 06 07 08 STA On On On On On On On On <CECSrcSta IN 01 02 03 04 05 06 07 08 STA On On On On On On On On <CECDisplaySta OUT 01 02 03 04 05 06 07 08 STA On On On On On On On On <RS232Baud 57600 <AutoStandby On <AutoStandbyTimes 1min...
>FactoryReset	Factory config reset to default	>FactoryReset <FactoryReset
>Reboot	Reboot the system	>Reboot <Reboot
>Help xx	Get the command details xx = the command to query	>Help SetVideo >SetVideo xx To yy Switch An Input Video Signal To One Or More Outputs xx = [01-08] : Input Channal yy = [01-08] : Output Channal yy = [00] : All Output Channal
>SetKeyLock xx	Lock/unlock the keypad xx = On,Off Off : Unlock On : Lock	>SetKeyLock On or >SetKeyLock Off <KeyLock On or <KeyLock Off
>GetKeyLock	Get the keypad locking status	>GetKeyLock <KeyLock Off
>GetType	Get Matrix Product Name	<8x8 4K HDMI 2.0 Matrix Switcher
>GetDeviceModel	Get The Product Name	<Model:MP-FSC88M-H2

10. Customer Service

The return of a product to our Customer Service implies the full agreement of the terms and conditions hereinafter. These terms and conditions may be changed without prior notice.

1) Warranty

The limited warranty period of the product is fixed three years.

2) Scope

These terms and conditions of Customer Service apply to the customer service provided for the products or any other items sold by authorized distributor only.

3) Warranty Exclusion

- Warranty expiration.
- Factory applied serial number has been altered or removed from the product.
- Damage, deterioration or malfunction caused by:
 - ✓ Normal wear and tear.
 - ✓ Use of supplies or parts not meeting our specifications.
 - ✓ No certificate or invoice as the proof of warranty.
 - ✓ The product model showed on the warranty card does not match with the model of the product for repairing or had been altered.
 - ✓ Damage caused by force majeure.
 - ✓ Servicing not authorized by distributor.
 - ✓ Any other causes which does not relate to a product defect.
- Shipping fees, installation or labor charges for installation or setup of the product.

4) Documentation

Customer Service will accept defective product(s) in the scope of warranty coverage at the sole condition that the defeat has been clearly defined, and upon reception of the documents or copy of invoice, indicating the date of purchase, the type of product, the serial number, and the name of distributor.

Remarks: Please contact your local distributor for further assistance or solutions.