

## MP-FSC42M-H2

4x2 4K HDMI 2.0 Matrix Switcher



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Version: MP-FSC42M-H2\_2025V1.0

# 4x2 4K HDMI 2.0 Matrix Switcher

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## 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 Nov. 6th, 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.



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## **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 optical 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.

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# 4x2 4K HDMI 2.0 Matrix Switcher

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## 1. Product Introduction

The MP-FSC42M-H2 is a high-performance 4x2 HDMI 2.0 Fast Switching Matrix Switcher, featuring 4 HDMI inputs and 2 HDMI outputs, supporting up to 18Gbps 4K@60Hz 4:4:4 with HDR, and digital/analog audio de-embedding from one output. Fast switching in just 2-4 seconds makes it stand out from the ordinary matrix switcher. It offers flexible control via RS-232, IR, and Web-GUI, ensuring seamless operation across diverse scenarios.

### 1.1 Features

- 4x2 HDMI 2.0 Matrix Switcher with 4 HDMI inputs and 2 HDMI outputs.
- Supports 18Gbps bandwidth for 4K@60Hz 4:4:4 HDR.
- Supports analog and digital audio de-embedding output.
- Supports 4K downscaling to 1080p.
- Controlled via front panel buttons, RS-232, IR, and GUI.

### 1.2 Package List

- 1 x MP-FSC42M-H2
- 1 x remote controller
- 1 x RS-232 cable (3-pin to DB9)
- 1 x 5-pin Phoenix
- 1 x power adapter
- 4 x rubbery feet
- 2 mounting ears with 4 screws
- 1 x user manual

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

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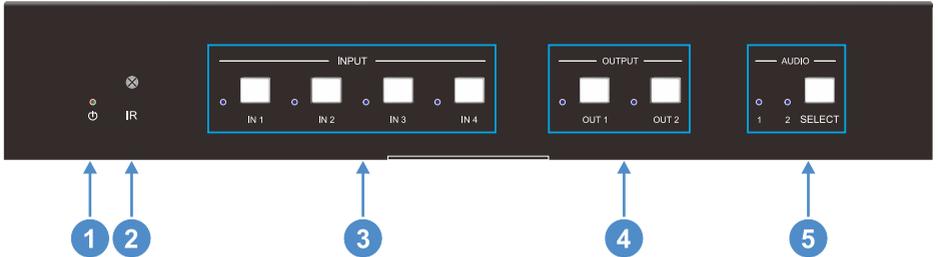
## 2. Specifications

| <b>Video</b>                |   |
|-----------------------------|---|
| Video Input                 | 4x HDMI 2.0, up to 3840x2160@60Hz 4:4:4                     |
| Video Output                | 2x HDMI 2.0, up to 3840x2160@60Hz 4:4:4                     |
| Audio Input                 | 4x HDMI   |
| Audio Output                | 1x SPDIF, for digital audio output                          |
|                             | 1x 5-pin L/R, for analog audio output                       |
| <b>Analog Audio</b>         |   |
| Audio Output                | 1x 5-pin terminal connector, for balanced stereo L/R audio. |
| Frequency Response          | 20 Hz to 20 kHz, $\pm 1$ dB                                 |
| Max output level            | $2 \pm 0.1$ Vrms  |
| THD+N                       | < 0.05%, 20Hz - 20kHz                                       |
| Signal-to-Noise Ratio (SNR) | > 80dB  |
| Crosstalk isolation         | < -80dB   |
| Stereo Channel Separation   | > 80dB  |
| <b>Control</b>              |   |
| IR EYE                      | 1x 3.5mm jack   |
| RS-232                      | 1x 3-pin serial port  |
| TCP/IP                      | 1x RJ-45 port   |
| <b>General</b>              |   |
| Operation Temperature       | -10°C ~ +55°C   |
| Storage Temperature         | -25°C ~ +70°C   |
| Relative Humidity           | 10%-90%   |
| Power                       | DC 12V/1A   |
| Power Consumption           | 4.8W  |
| Dimension (W x H x D)       | 260mm x 44mm x 115mm  |
| Net Weight                  | 800g  |

# 4x2 4K HDMI 2.0 Matrix Switcher

## 3. Panel Description

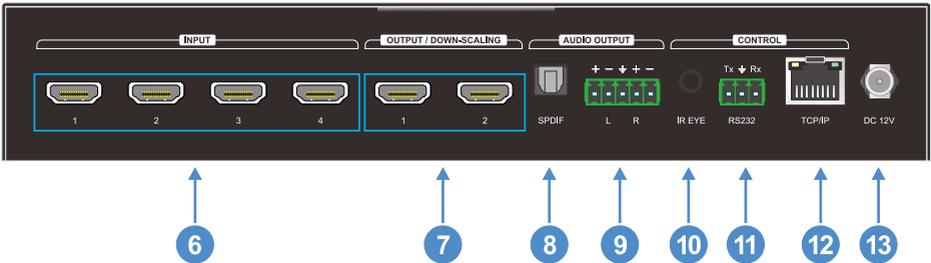
### 3.1 Front Panel



- ① **POWER LED:** Illuminates green when the device powered on, and turns to red when it in standby mode, a flashing red light indicates that infrared signal has been received.
- ② **IR:** Built-in IR sensor, receives IR signal sent from IR remote.
- ③ **INPUT Selecting Button & LED:** Press the button to select an input source, and the LED will illuminate blue.
- ④ **OUTPUT Selecting Button & LED:** Press the button to select an output, and the LED will illuminate blue.
- ⑤ **AUDIO SELECT Button & LED:** Press the button to select the output channel for audio de-embedding, and one of the LED (1/2) will illuminate blue.

# 4x2 4K HDMI 2.0 Matrix Switcher

## 3.2 Back Panel



- ⑥ **INPUT:** 4 HDMI 2.0 input ports, to connect to the source devices.
- ⑦ **OUTPUT:** 2 HDMI 2.0 output ports, to connect to the HDMI displays, features down-scaling.
- ⑧ **SPDIF:** Toslink port for digital audio output.
- ⑨ **L/R:** 5-pin balanced audio output jack.
- ⑩ **IR EYE:** 3.5mm jack to connect IR receiver to receive IR signal from IR remote to control the matrix.
- ⑪ **RS232:** 3-pin terminal block to connect the RS-232 control device (e.g. PC) or a device to be controlled by RS-232 commands.
- ⑫ **TCP/IP:** RJ-45 port to connect to a computer to control the matrix via GUI.
- ⑬ **DC 12V:** Connect to the DC 12V/1A power adapter (size is 5.5x2.1mm).

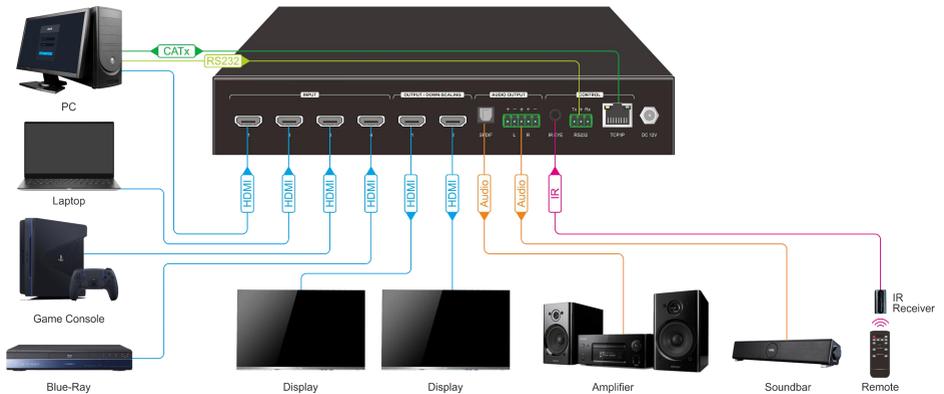
# 4x2 4K HDMI 2.0 Matrix Switcher

## 4. System Connection

### 4.1 Usage Precaution

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

### 4.2 System Diagram



# 4x2 4K HDMI 2.0 Matrix Switcher

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## 5. Switching

### 5.1 Video Switching

**One-to-one switching:** Press one of the IN buttons, the blue LED beside will glow. Then press one of the OUT buttons within 3 seconds. After another 3 seconds, the IN and OUT LED will flash 5 times. Then video switching is done.

**One-to-many switching:** Press one of the IN buttons, the blue LED beside will glow. Then press both OUT buttons within 3 seconds. After another 3 seconds, the IN and OUT LED will flash 5 times. Then video switching is done.

### 5.2 Query Source for A Video Output

If you want to query the source video for a video output, just press one of the OUT buttons, and the LED of the input source will glow.

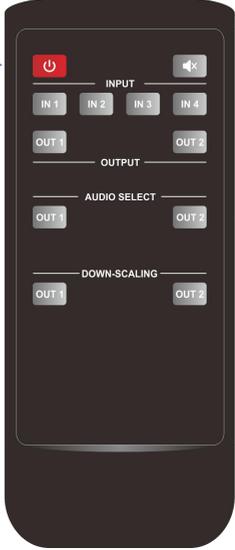
### 5.3 Audio Switching

Press the SELECT button to select an audio to output from OUT 1 or 2.

Please note, audio from SPDIF and L/R balanced port are de-embedded from the same output channel.

# 4x2 4K HDMI 2.0 Matrix Switcher

## 6. IR Control

| Function   | Silk-screen   |
|--|---|
| <ol style="list-style-type: none"><li>1. <b>Standby Mode:</b> Enter/exit standby mode.</li><li>2. <b>Mute:</b> Mute or un-mute audio output.</li><li>3. <b>IN 1-4:</b> Refer to [5.1 Video Switching]</li><li>4. <b>OUT 1-2:</b> Refer to [5.1 Video Switching]</li><li>5. <b>AUDIO SELECT OUT 1-2:</b> Choose to output audio of OUT 1 or OUT 2.</li><li>6. <b>DOWN-SCALING OUT 1-2:</b> Press the button to render one or two output into down-scaling mode.</li></ol> |  <p>The silk-screen diagram shows a vertical control panel with the following elements:</p> <ul style="list-style-type: none"><li><b>1:</b> A red power button (power symbol) at the top left.</li><li><b>2:</b> A grey mute button (speaker with an 'x') at the top right.</li><li><b>3:</b> Four input selection buttons labeled 'IN 1', 'IN 2', 'IN 3', and 'IN 4' under the heading 'INPUT'.</li><li><b>4:</b> Two output selection buttons labeled 'OUT 1' and 'OUT 2' under the heading 'OUTPUT'.</li><li><b>5:</b> Two audio selection buttons labeled 'OUT 1' and 'OUT 2' under the heading 'AUDIO SELECT'.</li><li><b>6:</b> Two down-scaling buttons labeled 'OUT 1' and 'OUT 2' under the heading 'DOWN-SCALING'.</li></ul> |

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## 7. Web-GUI Control

The switcher can be controlled by the Web-GUI. The default IP settings are:

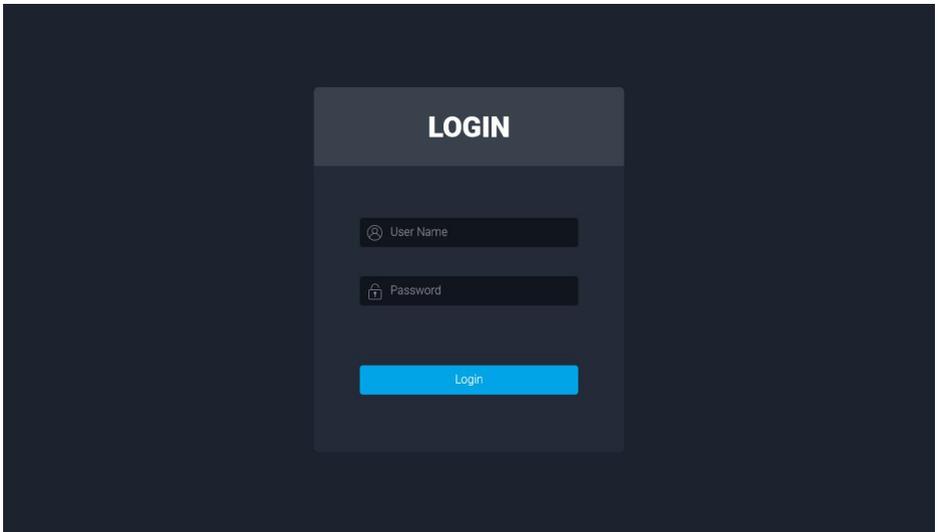
IP Address: 192.168.0.178

Subnet Mask: 255.255.255.0

Gateway: 192.168.0.1

Type 192.168.0.178 in the address field of the internet browser to access to the Web-GUI.

### 7.1 Login



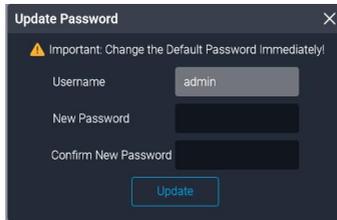
Default Username: admin

Default Password: Admin123@

Type the username and password, and then click **Login** to enter the section for video switching.

# 4x2 4K HDMI 2.0 Matrix Switcher

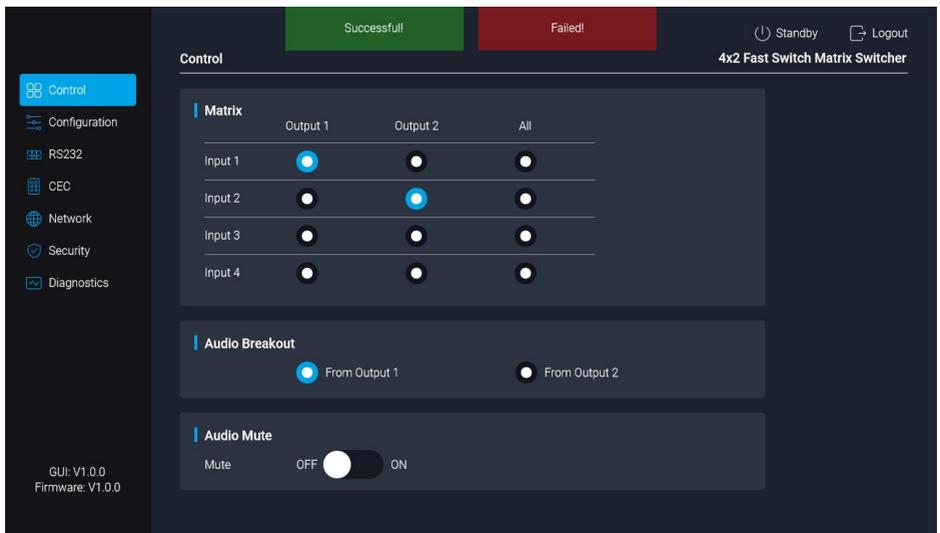
Upon first login to the GUI, users will be mandated to update their password.



The image shows a dark-themed dialog box titled "Update Password" with a close button (X) in the top right corner. Inside the dialog, there is a yellow warning icon followed by the text "Important: Change the Default Password Immediately!". Below this, there are three input fields: "Username" with the value "admin", "New Password", and "Confirm New Password". At the bottom center of the dialog is a blue button labeled "Update".

## 7.2 Control

This tab allows you to switch video and audio.



The image displays the "Control" tab of the GUI. At the top, there are two status buttons: "Successful" (green) and "Failed!" (red). To the right, there are "Standby" and "Logout" icons. The main content area is titled "Control" and "4x2 Fast Switch Matrix Switcher". It features a sidebar on the left with navigation options: "Control" (highlighted), "Configuration", "RS232", "CEC", "Network", "Security", and "Diagnostics". The main area contains three sections: "Matrix", "Audio Breakout", and "Audio Mute".

| Matrix  | Output 1                         | Output 2                         | All                   |
|---------|----------------------------------|----------------------------------|-----------------------|
| Input 1 | <input checked="" type="radio"/> | <input type="radio"/>            | <input type="radio"/> |
| Input 2 | <input type="radio"/>            | <input checked="" type="radio"/> | <input type="radio"/> |
| Input 3 | <input type="radio"/>            | <input type="radio"/>            | <input type="radio"/> |
| Input 4 | <input type="radio"/>            | <input type="radio"/>            | <input type="radio"/> |

**Audio Breakout**  
 From Output 1     From Output 2

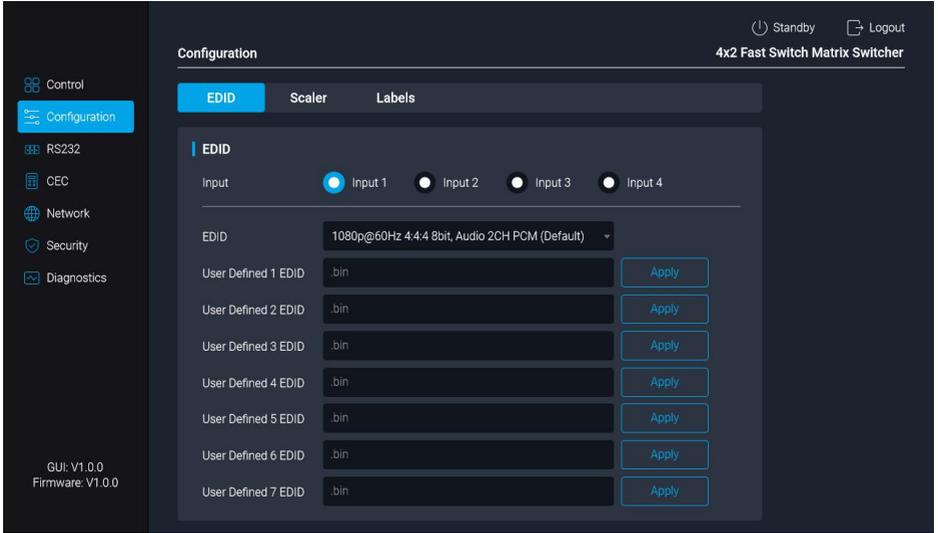
**Audio Mute**  
Mute    OFF  ON

GUI: V1.0.0  
Firmware: V1.0.0

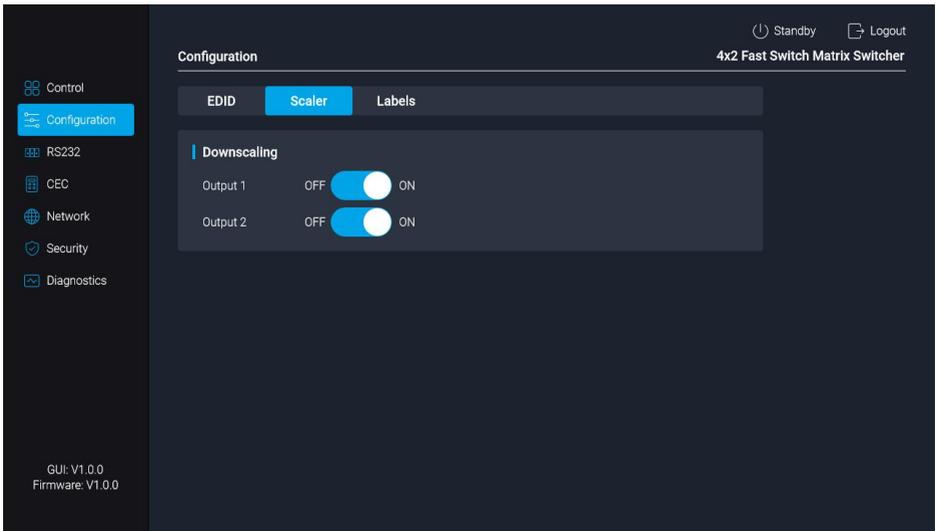
# 4x2 4K HDMI 2.0 Matrix Switcher

## 7.3 Configuration

Set an EDID for each input.



Turn ON/OFF for each output. If it is turned on, it will output 1080p.



# 4x2 4K HDMI 2.0 Matrix Switcher

Give each input and output a nickname here.

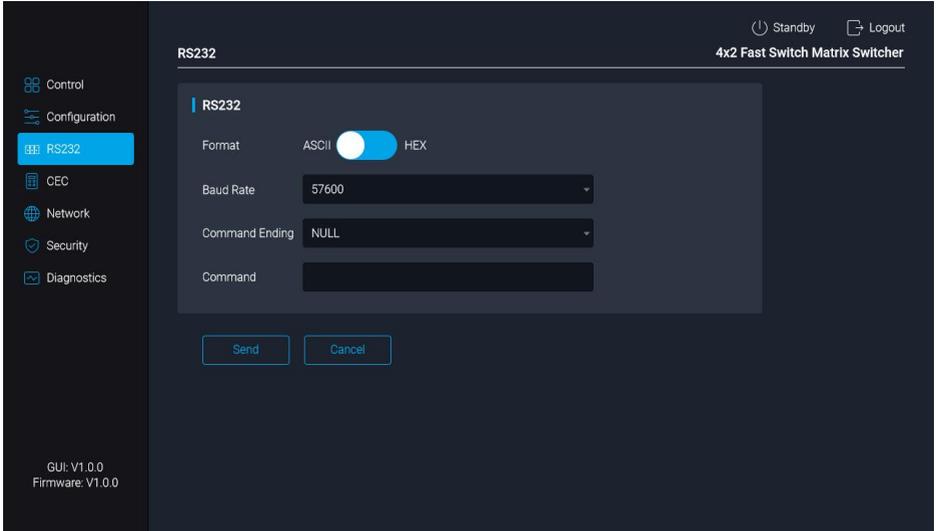
The screenshot shows the configuration interface for a 4x2 Fast Switch Matrix Switcher. The interface is dark-themed and includes a sidebar on the left with navigation options: Control, Configuration (highlighted), RS232, CEC, Network, Security, and Diagnostics. At the bottom left of the sidebar, it displays 'GUI: V1.0.0' and 'Firmware: V1.0.0'. The main configuration area is titled 'Configuration' and has a sub-header '4x2 Fast Switch Matrix Switcher'. It features three tabs: 'EDID', 'Scaler', and 'Labels' (which is active). The 'Labels' tab is divided into two sections: 'Video Input' and 'Video Output'. The 'Video Input' section contains four input fields, each labeled 'Input 1' through 'Input 4'. The 'Video Output' section contains two output fields, each labeled 'Output 1' and 'Output 2'. At the bottom of the configuration area, there are three buttons: 'Confirm', 'Cancel', and 'Default'. In the top right corner, there are 'Standby' and 'Logout' icons.

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## 7.4 RS232

Set the RS-232 configuration here.

- ASCII or HEX command format can be selected.
- Baud Rate: Supports 2400, 4800, 9600, 19200, 38400, 57600 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 connected to the RS232 on MP-FSC42M-H2.



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## 7.5 CEC

Sources and displays can be controlled via CEC here, only if they support CEC function.

Standby Logout

CEC 4x2 Fast Switch Matrix Switcher

**Input**

Source  Input 1  Input 2  Input 3  Input 4

Enable OFF  ON

Function

|         |      |         |          |      |       |
|---------|------|---------|----------|------|-------|
|         |      |         |          |      |       |
| Volume- | Menu | Volume+ | On       | Off  | Stop  |
|         |      |         |          |      |       |
| Back    | Up   | Enter   | Previous | Next | Pause |
|         |      |         |          |      |       |
| Left    | Down | Right   | REW      | FF   | Play  |

Trigger 1

Trigger 2

**Output**

Display  Output 1  Output 2

Enable OFF  ON

Function

|    |     |        |      |         |         |
|----|-----|--------|------|---------|---------|
|    |     |        |      |         |         |
| On | Off | Source | Mute | Volume- | Volume+ |

Trigger 1

Trigger 2

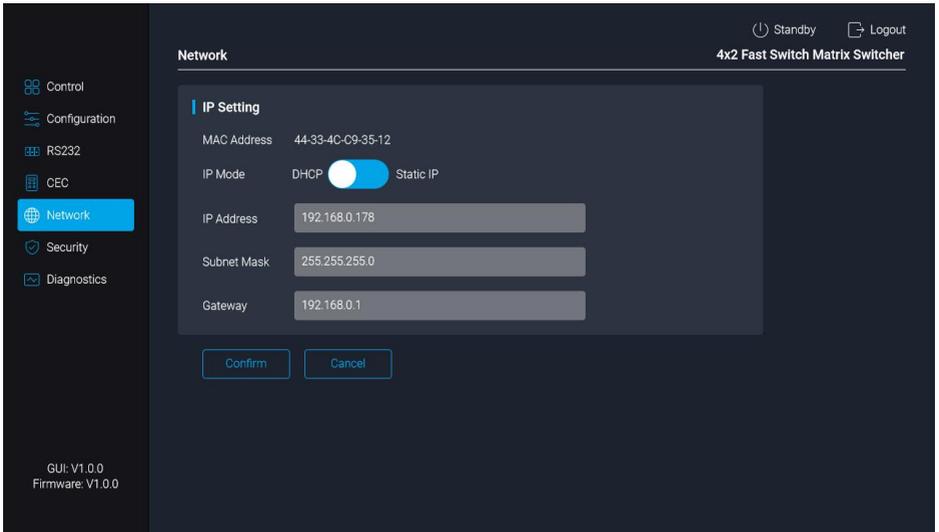
Control  
Configuration  
RS232  
CEC  
Network  
Security  
Diagnostics

GUI: V1.0.0  
Firmware: V1.0.0

# 4x2 4K HDMI 2.0 Matrix Switcher

## 7.6 Network

The device support DHCP and Static IP. IP Address, Subnet Mask and Gateway can be altered if it is switched to 'Static IP'.



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## 7.7 Security

**Password:** update the password here. The password requires at least 8 characters, which includes at least 1 number, 1 lower case, 1 upper case and 1 special character.

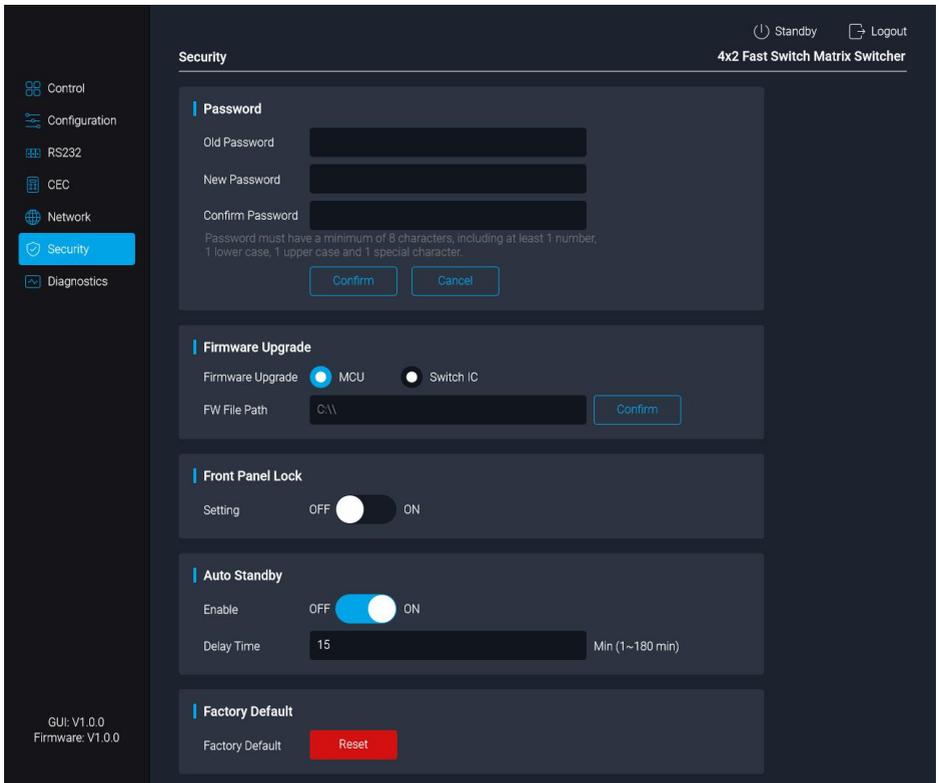
**Firmware Upgrade:** It is allowed to upgrade the MCU and Switch IC here.

Click the box to locate the file, and click 'Confirm' to start upgrading.

**Front Panel Lock:** To lock the front panel buttons. If it is switched to 'ON', front panel buttons will NOT work.

**Auto Standby:** If it is switched to 'OFF', the device will never go to standby mode. If it is switched to 'ON' and set a 'Delay Time', the device will go to standby mode when it detects no active source after the time period you set.

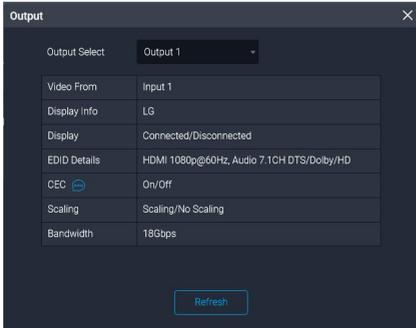
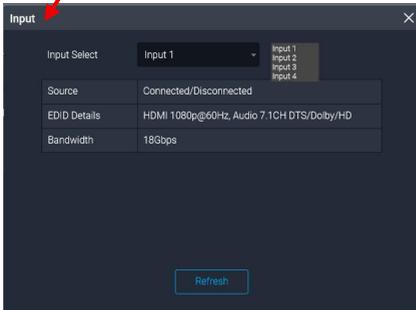
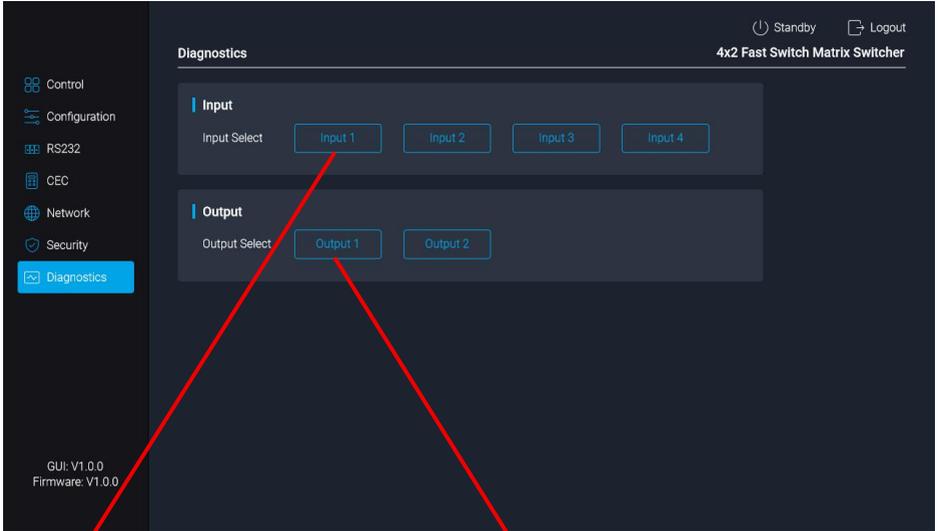
**Factory Default:** To factory reset the device, and all the configuration will be reset.



# 4x2 4K HDMI 2.0 Matrix Switcher

## 7.8 Diagnostics

Check out the real-time input and output information here.



# 4x2 4K HDMI 2.0 Matrix Switcher

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## 1. RS-232 Control

Connect the control device (PC) to the RS-232 port of MP-FSC42M-H2, the MP-FSC42M-H2 can be controlled by sending RS-232 commands via RS-232 control software installed in PC.

The baud rate supports 2400, 4800, 9600, 19200, 38400, 57600(default), or 115200.

### 1.1 RS-232 Control Software

- **Installation:** Copy the control software file to the computer connected with MP-FSC42M-H2
- **Uninstallation:** Delete all the software files in corresponding file path.
- **Basic Settings:**

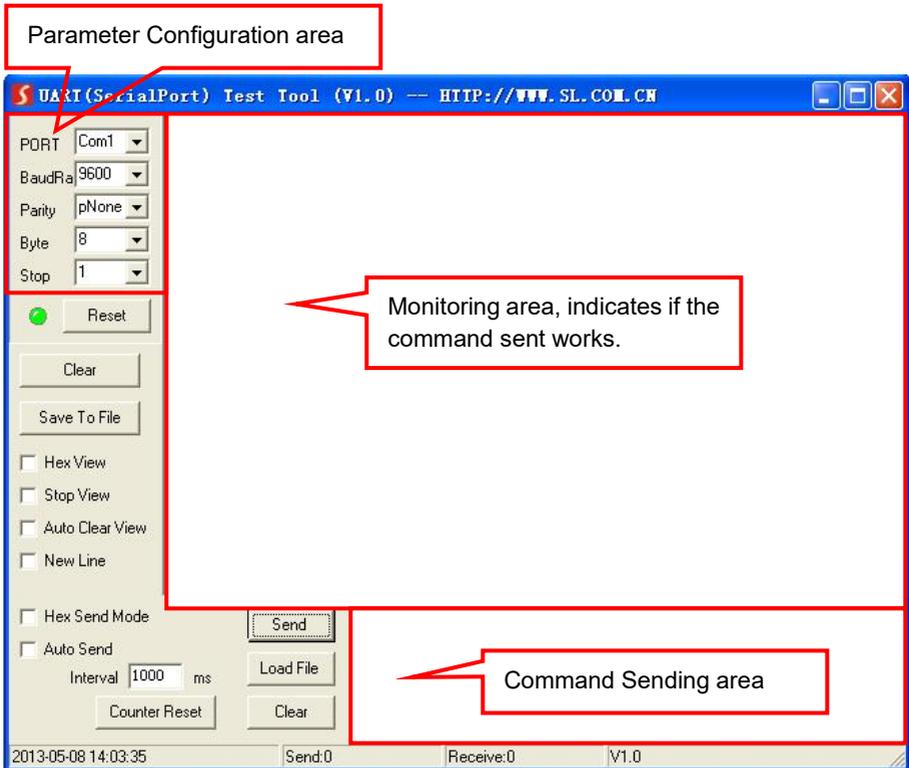
First to connect MP-FSC42M-H2 with all input devices and output devices needed, then to connect it with a computer which is installed with RS-232 control software. Finally, double-click the software icon to run this software.

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



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The interface of the control software is showed as below:



Please set the parameters of COM number, bound rate, data bit, stop bit and the parity bit correctly, and then the command is ready to be sent in Command Sending Area.

# 4x2 4K HDMI 2.0 Matrix Switcher

## 1.2 RS232 Command

**Communication protocol:** RS232 Communication Protocol

Baud rate: 57600

Data bit: 8

Stop bit: 1

Parity bit: none

| Commands                    | Descriptions   | Example                       |
|-----------------------------|--|-------------------------------|
| >SetPower [Param]           | Enter/exit standby mode.<br>[Param] = On/Off<br>Off: Power off<br>On: Power on   | >SetPower Off                 |
| >GetPower                   | Get the standby status   | >GetPower                     |
| >SetAutoStandbyTime [Param] | Set an inactive period of time before the device goes to standby mode, unit is minutes.<br>[Param] = 1-180,<br>This command can only be valid when Auto Standby mode is set to On. | >SetAutoStandbyTime 15        |
| >SetAutoStandby [Param]     | Set the Auto Standby mode.<br>[Param] = On/Off<br>On: the device will go to standby mode after a period of time of inactivity.<br>Off: The device will never go to standby mode.   | >SetAutoStandby On            |
| >GetAutoStandby             | Check the status of the Auto Standby mode.   | >GetAutoStandby               |
| >GetAutoStandbyTime         | Check out the time you set before the device automatically goes to standby mode.   | >GetAutoStandbyTime           |
| >SetDeviceModel:[Param]     | Set a model number for the device.<br>[Param] is the model number.   | >SetDeviceModel:MP-FSC 42M-H2 |
| >GetDeviceModel             | Check the model number of the device.  | >GetDeviceModel               |
| >GetType                    | Check the product name of the device.  | >GetType                      |
| >GetFirewareVersio          | Query the firmware version   | >GetFirewareVersion           |
| >FactoryReset               | Factory reset the device   | >FactoryReset                 |
| >SetKeyLock [Param]         | Lock/unlock the keypad.<br>[Param] = On/Off<br>Off: Unlock<br>On: Lock   | >SetKeyLock On                |
| >SetKeyLock [Param]         | Lock/unlock the front panel buttons.<br>[Param] = On/Off<br>Off: Unlock<br>On: Lock  | >SetKeyLock Off               |
| >GetKeyLock                 | Get the status of key lock.  | >GetKeyLock                   |
| >GetIP                      | Query the IP address of the device.  | >GetIP                        |
| >SetIP <[IP]>               | [IP]: the device's IP Address.   | >SetIP <192.168.0.188>        |

## 4x2 4K HDMI 2.0 Matrix Switcher

| Commands                       | Descriptions  | Example                          |
|--------------------------------|---|----------------------------------|
| <[SUBNET_MASK]><br><[GATEWAY]> | [SUBNET_MASK]: the Subnet Mask.<br>[GATEWAY]: Gateway.  | <255.255.255.0><br><192.168.0.1> |
| >SetRB                         | To reboot the GUI and apply the new configuration.<br>After running >SetIP command, please also run this command so that the configuration may take effect.                   | >SetRB                           |
| >SetDHCP [Param]               | Set if the device is in DHCP mode or Static IP mode.<br>[Param]: ON/OFF<br>ON: DHCP mode.<br>OFF: Static IP mode  | >SetDHCP ON                      |
| >GetRS233Baud                  | Check the baud rate of the device.  | >GetRS232Baud                    |
| >SetRS232Baud [Param]          | Set the baud rate for the RS-232 serial port.<br>[Param]: 2400, 4800, 9600, 19200, 38400, 57600, 115200   | >SetRS232Baud 57600              |
| >SetAudio [Param]              | Select audio from HDMI 1/2 outputs.<br>[Param]: S01-S02   | >SetAudio S01                    |
| >Reboot                        | To reboot the device.   | >Reboot                          |
| >SetAudioMute [Param]          | Mute/unmute the device.<br>[Param] = ON / OFF<br>ON: mute the device.<br>OFF: unmute the device.  | >SetAudioMute ON                 |
| >GetAudioMute                  | Check if the device is muted.   | >GetAudioMute                    |
| >GetAudio                      | Query current HDMI audio channel.   | >GetAudio                        |
| >SetVideo [Param1] To [Param2] | Switch video from an input to an output.<br>[Param1]: Input port, value can be 01-04.<br>[Param2]: Output port, value can be 01-02  | >SetVideo 04 To 01               |
| >GetVideo                      | Query the video channel.  | >GetVideo                        |
| >SetDS [Param1] [Param2]       | Turn on/off down-scaling for an output port.<br>[Param1]: ON/OFF<br>ON: turn on down-scaling.<br>OFF: turn off down-scaling.<br>[Param2]: the output port, value can be 01-02 | >SetDS ON 01                     |
| >GetDS                         | Check the down-scaling status.  | >GetDS                           |
| >GetHDCPMode                   | Get the HDCP mode   | >GetHDCPMode                     |
| >SetEDIDMInit.                 | Reset the EDID to default.  | >SetEDIDMInit                    |
| >SetUpdateEDID [Param]         | Upload the user defined EDID (EDID file need to be sent to the device via RS232 tool)   | >SetUpdateEDID 01                |

# 4x2 4K HDMI 2.0 Matrix Switcher

| Commands                      | Descriptions   | Example           |
|-------------------------------|--|-------------------|
|                               | [Param] = 01 or 18: User EDID 1<br>[Param] = 02 or 19: User EDID 2<br>[Param] = 03 or 20: User EDID 3<br>[Param] = 04 or 21: User EDID 4<br>[Param] = 05 or 19: User EDID 5<br>[Param] = 06 or 20: User EDID 6<br>[Param] = 07 or 21: User EDID 7  |                   |
| >SetEDID [Param1] To [Param2] | Set an EDID for an input port.<br><br>[Param1]: import port, value can be 01-04.<br><br>[Param2] is the specific EDID, value can be 00 - 25.<br>00 : HDMI 1080p@60Hz, Audio 2CH PCM (Default)<br>01 : HDMI 1080p@60Hz, Audio 5.1CH DTS/DOLBY<br>02 : HDMI 1080p@60Hz, Audio 7.1CH DTS/DOLBY/HD<br>03 : HDMI 4K@30Hz 4:4:4, Audio 2CH PCM<br>04 : HDMI 4K@30Hz 4:4:4, Audio 5.1CH DTS/DOLBY<br>05 : HDMI 4K@30Hz 4:4:4, Audio 7.1CH DTS/DOLBY/HD<br>06 : HDMI 4K@60Hz 4:2:0, Audio 2CH PCM<br>07 : HDMI 4K@60Hz 4:2:0, Audio 5.1CH DTS/DOLBY<br>08 : HDMI 4K@60Hz 4:2:0, Audio 7.1CH DTS/DOLBY/HD<br>09 : HDMI 4K@60Hz 4:4:4, 8-bit, Audio 2CH PCM<br>10 : HDMI 4K@60Hz 4:4:4, 8-bit, Audio 5.1CH DTS/DOLBY<br>11 : HDMI 4K@60Hz 4:4:4, 8-bit, Audio 7.1CH DTS/DOLBY/HD<br>12: HDMI 3840x2160p@60Hz 4:4:4, HDR 10bit(inc DV ), Audio 2CH PCM<br>13: HDMI 3840x2160p@60Hz 4:4:4, HDR 10bit(inc DV ), Audio 5.1CH DTS/Dolby<br>14: HDMI 3840x2160p@60Hz 4:4:4, HDR 10bit(inc DV ), Audio 7.1CH DTS/Dolby/HD<br>15: HDMI 3840x2160p@60Hz 4:4:4, HDR 12bit(inc DV ), Audio 2CH PCM<br>16: HDMI 3840x2160p@60Hz 4:4:4, HDR 12bit(inc DV ), Audio 5.1CH DTS/Dolby | >SetEDID 01 To 01 |

## 4x2 4K HDMI 2.0 Matrix Switcher

| Commands                    | Descriptions  | Example               |
|-----------------------------|---|-----------------------|
|                             | 17: HDMI 3840x2160p@60Hz 4:4:4, HDR 12bit(inc DV) , Audio 7.1CH DTS/Dolby/HD<br>18: User Defined 1<br>19: User Defined 2<br>20: User Defined 3<br>21: User Defined 4<br>22: User Defined 5<br>23: User Defined 6<br>24: User Defined 7<br>25: Copy from sink 1                                |                       |
| >GetEDID                    | Check the current EDID  | >GetEDID              |
| >SetEDIDCopy [IN] To [OUT]. | Render the source to use the EDID of from screen that is connected to an output port.<br>[IN]: the input port, value can be 00-04.<br>00: all the input ports.<br>00-04: input port 01-04.<br>[OUT]: the screen connected to an output port, value can be 01-02.                              | >SetEDIDCopy 4 To 1   |
| SetEDIDSave xx To yy        | EDID Copy Output<br>xx = [01]: EDID Copy Output 1<br>yy = 00: All User EDID<br>yy = 01 or 18: User EDID 1<br>yy = 02 or 19: User EDID 2<br>yy = 03 or 20: User EDID 3<br>yy = 04 or 21: User EDID 4<br>yy = 05 or 22: User EDID 5<br>yy = 06 or 23: User EDID 6<br>yy = 07 or 24: User EDID 7 | >SetEDIDSave 01 To 01 |
| >GetStatus                  | Query the status of the device.   | >GetStatus            |
| >GetHpdOut                  | Query the HDP connection status of the outputs.   | >GetHpdOut            |
| >GetPOUT                    | Query the 5V status of all HDMI outputs.  | >GetPOUT              |
| >GetIN                      | Query the 5V status of all HDMI inputs.   | >GetIN                |
| >SetPOut [ParamX] [ParamY]  | To turn on/off the 5V for HDMI output.<br>[ParamX]: On/Off<br>On: turn on 5V<br>Off: turn off 5V<br>[ParamY]: 00-02<br>00: All the outputs.<br>01: Output 1<br>02: Output 2   | >SetPOut On 1         |

# 4x2 4K HDMI 2.0 Matrix Switcher

| Commands                         | Descriptions  | Example                  |
|----------------------------------|---|--------------------------|
| >SetCecSrcMenu<br>[Param]        | Send CEC MENU command to source.<br>[Param] is the source number, value can be 01 - 04              | >SetCecSrcMenu 01        |
| >SetCecSrcUp [Param]             | Send CEC UP command to source.<br>[Param] is the source number, value can be 01 - 04                | >SetCecSrcUp 01          |
| >SetCecSrcDown<br>[Param]        | Send CEC DOWN command to source.<br>[Param] is the source number, value can be 01 - 04              | >SetCecSrcDown 01        |
| >SetCecSrcLeft [Param]           | Send CEC LEFT command to source.<br>[Param] is the source number, value can be 01 - 04              | >SetCecSrcLeft 01        |
| >SetCecSrcRight<br>[Param]       | Send CEC RIGHT command to source.<br>[Param] is the source number, value can be 01 - 04             | >SetCecSrcRight 01       |
| >SetCecSrcBack [Param]           | Send CEC BACK command to source.<br>[Param] is the source number, value can be 01 - 04              | >SetCecSrcBack 01        |
| >SetCecSrcEnter<br>[Param]       | Send CEC ENTER command to source.<br>[Param] is the source number, value can be 01 - 04             | >SetCecSrcEnter 01       |
| >SetCecSrcOn [Param]             | Send CEC ON command to source.<br>[Param] is the source number, value can be 01 - 04                | >SetCecSrcOn 01          |
| >SetCecSrcOff [Param]            | Send CEC OFF command to source.<br>[Param] is the source number, value can be 01 - 04               | >SetCecSrcOff 01         |
| >SetCecSrcStop [Param]           | Send CEC STOP command to source.<br>[Param] is the source number, value can be 01 - 04              | >SetCecSrcStop 01        |
| >SetCecSrcPause<br>[Param]       | Send CEC PAUSE command to source.<br>[Param] is the source number, value can be 01 - 04             | >SetCecSrcPause 01       |
| >SetCecSrcPlay [Param]           | Send CEC PLAY command to source.<br>[Param] is the source number, value can be 01 - 04              | >SetCecSrcPlay 01        |
| >SetCecSrcPrev [Param]           | Send CEC PREVIOUS command to source.<br>[Param] is the source number, value can be 01 - 04          | >SetCecSrcPrev 01        |
| >SetCecSrcNext [Param]           | Send CEC NEXT command to source.<br>[Param] is the source number, value can be 01 - 04              | >SetCecSrcNext 01        |
| >SetCecSrcRewind<br>[Param]      | Send CEC REWIND command to source.<br>[Param] is the source number, value can be 01 - 04            | >SetCecSrcRewind 01      |
| >SetCecSrcFastForward<br>[Param] | Send CEC FAST_FORWARD to source.<br>[Param] is the source number, value can be 01 - 04              | >SetCecSrcFastForward 01 |
| >SetCecSrcVolup<br>[Param]       | Send CEC VOLUME_UP command to source.<br>[Param] is the source number, value can be 01 - 04         | >SetCecSrcVolup 01       |
| >SetCecSrcVoldown<br>[Param]     | Send CEC VOLUME_DOWN command to source.<br>[Param] is the source number, value can be 01 - 04       | >SetCecSrcVoldown 01     |
| >SetCecDisplayOn<br>[Param]      | Send CEC DISPLAY_ON command to display.<br>[Param] is the output port number, value can be 01 - 02. | >SetCecDisplayOn 01      |
| >SetCecDisplayOff                | Send CEC DISPLAY_OFF command to display.  | >SetCecDisplayOff 01     |

## 4x2 4K HDMI 2.0 Matrix Switcher

| Commands  | Descriptions   | Example                   |
|---|--|---------------------------|
| [Param]   | [Param] is the output port number, value can be 01 - 02.   |                           |
| >SetCecDisplaySource<br>[Param]                     | Send the command to display and ask it to change another port to input the video source.<br>Each time sending this command, video input port on the display will be switched to another one.<br>[Param] is the output port number, value can be 01 - 02.   | >SetCecDisplaySource 01   |
| >SetCecDisplayMute<br>[Param]                       | Send CEC MUTE_DISPLAY command to display.<br>[Param] is the output port number, value can be 01 - 02.  | >SetCecDisplayMute 01     |
| >SetCecDisplayVOLPlus<br>[Param]                    | Send CEC VOLUME_PLUS command to the display.<br>[Param] is the output port number, value can be 01 - 02.   | >SetCecDisplayVOLPlus 01  |
| >SetCecDisplayVOLMinus<br>[Param]                   | Send CEC VOLUME_MINUS command to the display.<br>[Param] is the output port number, value can be 01 - 02.  | >SetCecDisplayVOLMinus 01 |
| >CEC <[Param1],<br>[Param2], [Param3],<br>[Param4]> | Send out a customized CEC command.<br>[Param1] is the input/output port number, value can be 00-04, F1-F2.<br>00: Select all CEC input port.<br>01-04: Input 1-4.<br>F0: All the CEC output port.<br>F1-F2: Output 1-2.<br>[Param2]: Device address.<br>PARAM3: OPCODE<br>[Param4]: The command. | >CEC <F0,40,44,41>        |
| >SetCecSrcEnable<br>[Param]                         | To enable the CEC function for a source.<br>[Param]: 00-04<br>00: all the sources<br>01-04: source 01-04   | >SetCecSrcEnable 01       |
| >SetCecSrcDisable<br>[Param]                        | To disable the CEC function for a source.<br>[Param]: 00-04<br>00: all the sources<br>01-04: source 01-04  | >SetCecSrcDisable 01      |
| >SetCecDisplayEnable<br>[Param]                     | To enable the CEC function for a display.<br>[Param]: 00-04<br>00: all the displays<br>01-04: display 01-04  | >SetCecDisplayEnable 01   |

## 4x2 4K HDMI 2.0 Matrix Switcher

| <b>Commands</b>                  | <b>Descriptions</b>   | <b>Example</b>           |
|----------------------------------|---|--------------------------|
| >SetCecDisplayDisable<br>[Param] | To disable the CEC function for a display.<br>[Param]: 00-04<br>00: all the display<br>01-04: display 01-04 | >SetCecDisplayDisable 01 |
| >GetCecSrcSta                    | Query the CEC status of the source.   | >GetCecSrcSta            |
| >GetCecDisplaySta                | Query the CEC status of the display.  | >GetCecDisplaySta        |

# 4x2 4K HDMI 2.0 Matrix Switcher

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## 2. Troubleshooting & Maintenance

| Problems   | Potential Causes                     | Solutions  |
|--|--------------------------------------|--|
| Output image with snowflake  | Bad quality of the connecting cable. | Try another high-quality cable.  |
|  | Fail or loose connection.            | Make sure the connection is good   |
| No output image when switching   | No signal at the input / output end. | Check with oscilloscope or multimeter if there is any signal at the input/ output end. |
|  | Fail or loose connection.            | Make sure the connection is good.  |
|  | The switcher is broken.              | Send it to authorized dealer for repairing.  |
| <b>POWER</b> indicator doesn't work or no respond to any operation         | Fail connection of power cord.       | Make sure the power cord connection is good.   |
| Static becomes stronger when connecting the video connectors               | Bad grounding.                       | Check the grounding and make sure it is connected well.                                |
| Cannot control the device by control device (e.g. a PC) through RS232 port | Broken RS232 port.                   | Send it to authorized dealer for checking.   |

**Note:** If your problem still remains after following the above troubleshooting steps, please contact your local dealer or distributor for further assistance.

# 4x2 4K HDMI 2.0 Matrix Switcher

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## 3. 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 do 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.