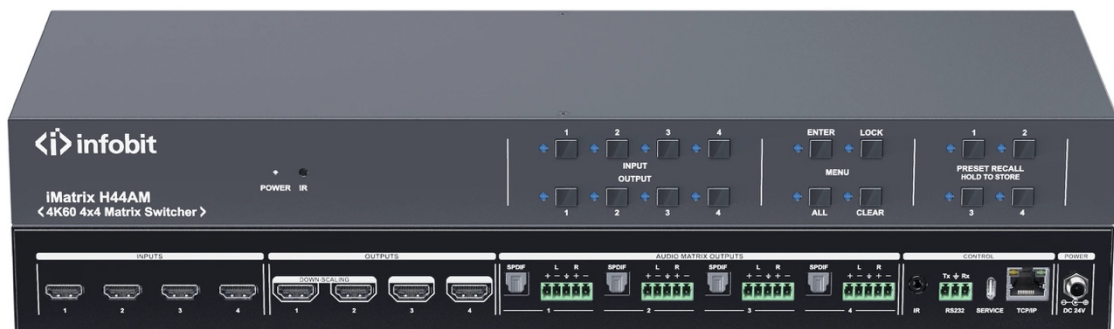


iMatrix H44AM _(v2)

4x4 HDMI Fast Switching Matrix Switcher

User Manual V1.0



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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 overheating.
- 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.



1. INTRODUCTION

The **iMatrix H44AM** (V2) is a 4x4 HDMI matrix switcher that supports signals up to **4K@60Hz in 4:4:4** resolution. It features audio de-embedding, separating audio from the HDMI signal for independent audio and video outputs.

In addition, Output 1/2 supports automatic downscaling, dynamically matching the optimal resolution of the display device. It offers four control methods: front panel buttons, IR, RS-232 and web-GUI, to adapt to the user's control needs.

2. FEATURES

- 4x4 fast matrix switching up to 2-4 seconds.
- Video up to 18Gbps 4K@60 4:4:4.
- Supports audio de-embedded for all outputs.
- Output 1/2 supports automatic downscaling.
- Supports CEC control for source & sink.
- Built-in EDID, EDID learning and customized EDID.
- Control via front panel buttons, IR, RS-232 or TCP/IP.

3. PACKAGE LIST

1x iMatrix H44AM
1x RS-232 Cable
1x IR Receiver
1x Remote Control
1x Power Adapter (24V 1.25A)
2x Mounting Ears and 6x Screws
4x Rubber Feet
4x 5-pin Phoenix Connector
1x User Manual

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

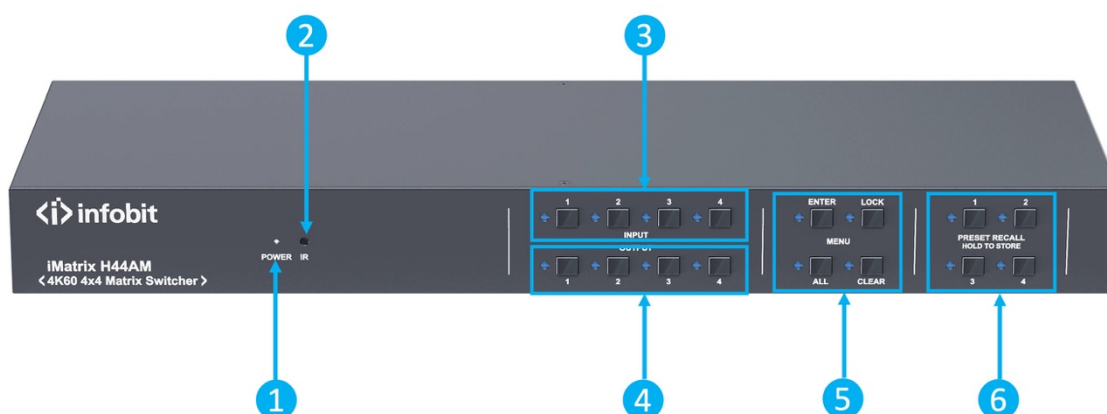
4. SPECIFICATION

Video Input	
Connector	4x 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™
HDCP	HDCP 2.2 and backward compatibility
Video Output	
Connector	4x 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™
HDCP	HDCP 2.2 and backward compatibility
Downscaling	Output1, Output2
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.
IR EYE	Via the third-party device.
IR	Via the remote control.
Web-GUI	Via the TCP/IP.
Button	Via the front panel buttons.
General	
Power Supply	24V 1.25A
Operation Temperature	-5°C ~ +55°C
Storage Temperature	-20°C ~ +70°C
Relative Humidity	0% ~ 80%
Standby Power Consumption	1.2W
Dimension (W*H*D)	436.4mm x 44mm x 160mm
Net Weight	1.76kg

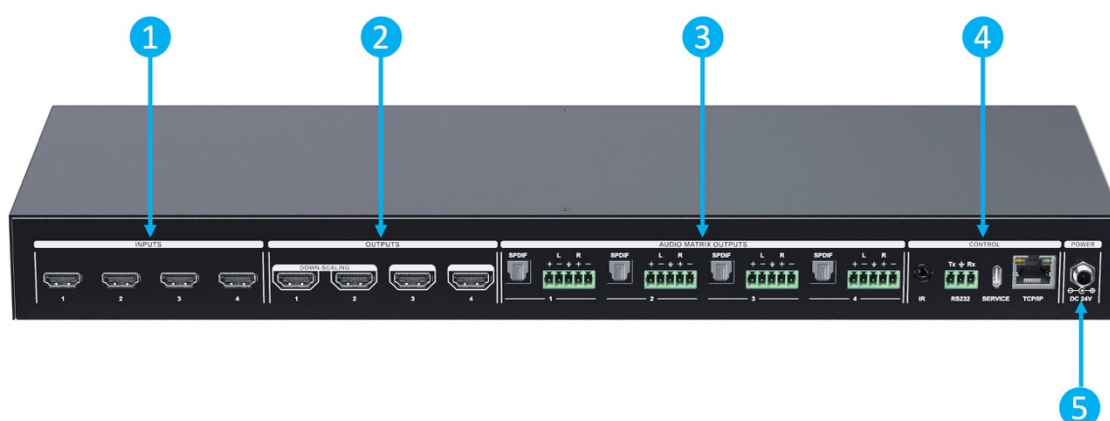
5. PANEL DESCRIPTION

5.1 FRONT PANEL



No.	Name	Description
1	POWER INDICATOR	1x green/ red LED, power input indicator. - Green on: device on. - Red on: device standby. - Red flash: FW upgrade. - LED off: device off.
2	IR	1x IR sensor, receive the IR signal from remote control.
3	INPUT	4x blue LEDs and 4x white buttons, which corresponding to input 1-4. Select the input source by pressing any input button.
4	OUTPUT	4x blue LEDs and 4x white buttons, which corresponding to output 1-4. Press any output button to switch the selected input source to the output channel.
5	MENU	4x blue LEDs and 4x white buttons, ENTER/LOCK/ALL/CLEAR. The MENU buttons will be described in detail in 6.1 Definition .
6	PRESET RECALL	4x blue LEDs and 4x white buttons, 4 scenes can be preset and recalled.

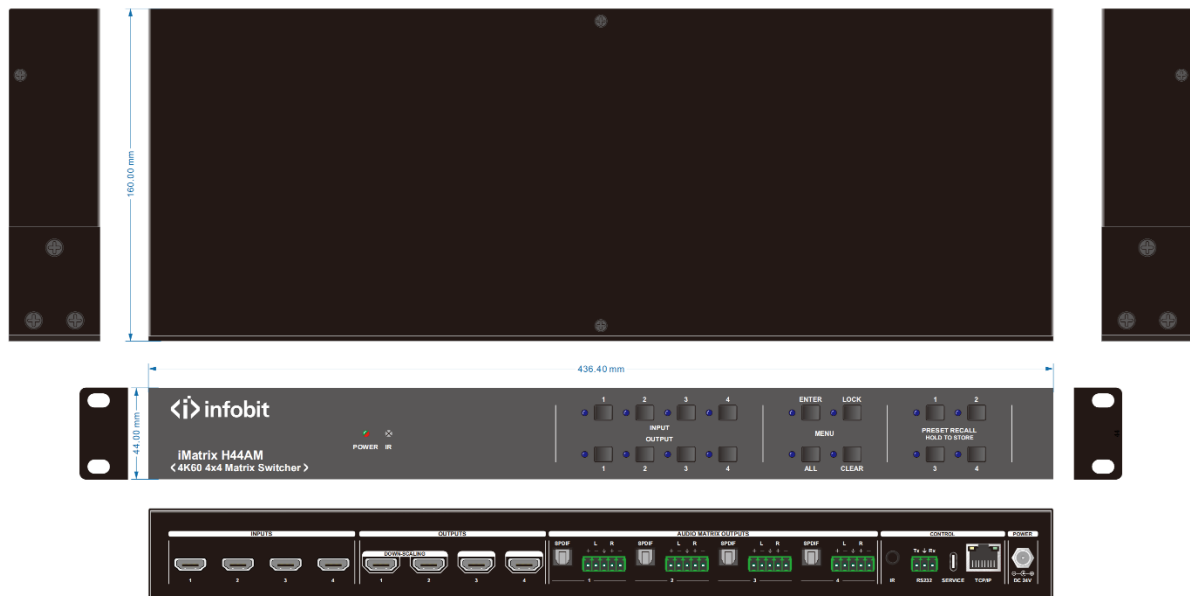
5.2 REAR PANEL



No.	Name	Description
1	INPUT	4x HDMI input, connect to the HDMI source device.
2	OUTPUT/DOWN-SCALING	4x HDMI output, connect to the HDMI display. Only output 1/2 supports downscaling.

3	AUDIO MATRIX OUTPUT	4x S/PDIF, connect to the digital audio device. 4x 5-pin phoenix socket, connect to the analog audio device.
4	CONTROL	● IR EYE: 1x 3.5mm mini jack, connect to the IR receiver and controlled by the third-party device. ● RS232: 1x 3-pin phoenix socket, controlled by the RS232 commands. ● FW: 1x USB-C, FW upgrade. ● TCP/IP: 1x RJ45 with left yellow and right green LED, control the device via Web-GUI.
5	DC 24V	24V 1.25A

5.3 PANEL DRAWING



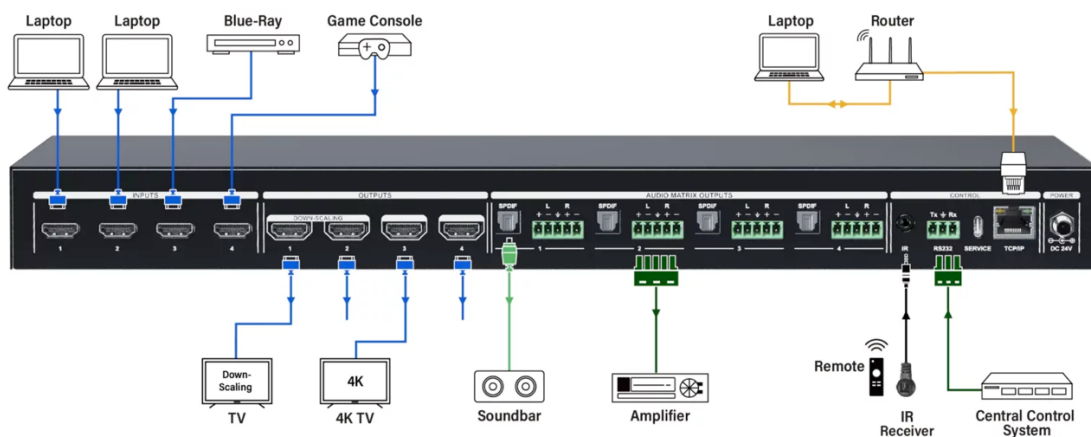
6. SYSTEM CONNECTION

6.1 USAGE PRECAUTION

1. Make sure all components and accessories included before installation.
2. System should be installed in a clean environment with proper temperature and humidity.

3. All of the power switches, plugs, sockets, and power cords should be insulated and safe.
4. All devices should be connected before power on.

6.2 SYSTEM DIAGRAM



7. FRONT PANEL CONTROL

7.1 DEFINITION



- INPUT: press the input buttons to select the input source.
- OUTPUT: press the output buttons to switch the input source to HDMI display.
- ENTER: for final confirmation and execution of operations.
- LOCK: lock/unlock the front panel buttons, press and hold for 3 seconds.
- ALL: select all input/output channel.



- CLEAR: cancel all unconfirmed operations.
- PRESET RECALL: preset the current scene or recall the preset scene.

7.2 USAGE

I/O

- 1 input to 1 output

Example: INPUT 1 to OUTPUT 2

Operation: press INPUT 1 + OUTPUT 2 + ENTER

- 1 input to 2/3 outputs

Example: INPUT 1 to OUTPUT 2 and OUTPUT 3

Operation: press INPUT 1 + OUTPUT 2 + OUTPUT 3 + ENTER

- 1 input to all output

Example: INPUT 1 to ALL OUTPUT

Operation: press INPUT 1 + ALL + ENTER

The LED corresponding to the pressed button will keep on. After pressing ENTER, all LEDs will flash 3 times and then off.

7.3 SCENE

- Preset the scene

Example: save the current scene INPUT 1 to OUTPUT 2 as the first preset scene.

Operation: press the 1 button for 3s. The LED will flash 3 times to indicate success and then off.

- Recall the scene

Example: recall the first preset scene.

Operation: press the 1 + ENTER. After pressing ENTER, all LEDs will flash 3 times and then off.

7.4 QUERY

- Query the current channel

Operation: press any output button. The LEDs of corresponding channel will keep on and turn off when release the button.

7.5 CANCEL

- Manual cancel

Operation: press the CLEAR to cancel the operation before ENTER and all LEDs will off.

- Auto cancel

Operation: If there is no operation for 8 seconds after pressing INPUT/OUTPUT, the operation will be automatically canceled and all LEDs will off.

8. IR CONTROL

8.1 I/O

- 1 input to 1 output

Example: INPUT 1 to OUTPUT 2

Operation: press INPUT 1 + OUTPUT 2 + ENTER

- 1 input to 2/3 outputs

Example: INPUT 1 to OUTPUT 2 and OUTPUT 3

Operation: press INPUT 1 + OUTPUT 2 & 3 + ENTER

- 1 input to all output

Example: INPUT 1 to ALL OUTPUT

Operation: press INPUT 1 + ALL + ENTER

8.2 CANCEL

- Manual cancel

Operation: press the CLEAR to cancel the operation before ENTER.

- Auto cancel

Operation: If there is no operation for 8 seconds after pressing INPUT/OUTPUT, the operation will be automatically canceled.



8.3 EDID

- EDID learning

Example 1: learn the EDID of output 1 to adjust input 1

Operation: press EDID + INPUT 1 + OUTPUT 1 + ENTER

Example 2: learn the EDID of output 1 to adjust input 1 and input 2

Operation: press EDID + INPUT 1 + INPUT 2 + OUTPUT 1 + ENTER

Example 3: learn the EDID of output 1 to adjust all inputs

Operation: press EDID + ALL + OUTPUT 1 + ENTER

9. WEB-GUI CONTROL

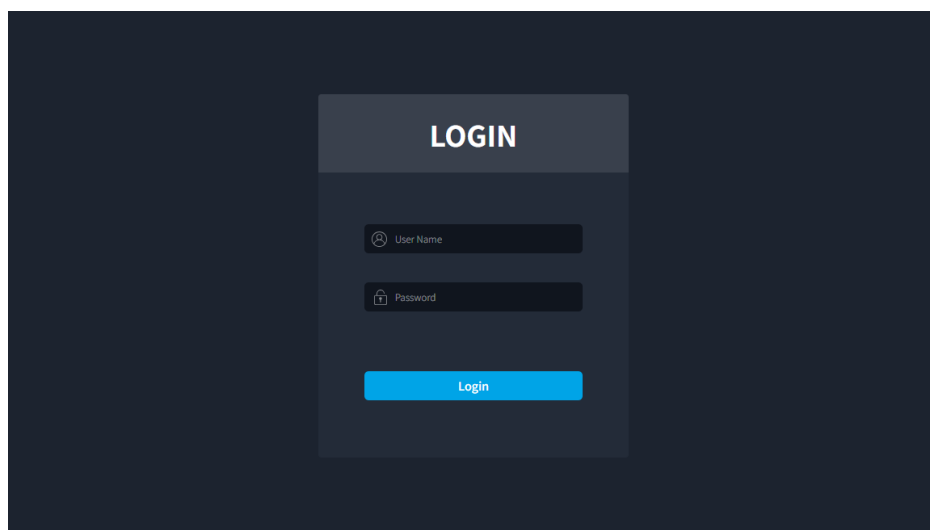
Connect the TCP/IP port of the FSC44-H2. TCP/IP supports static IP by default.

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:

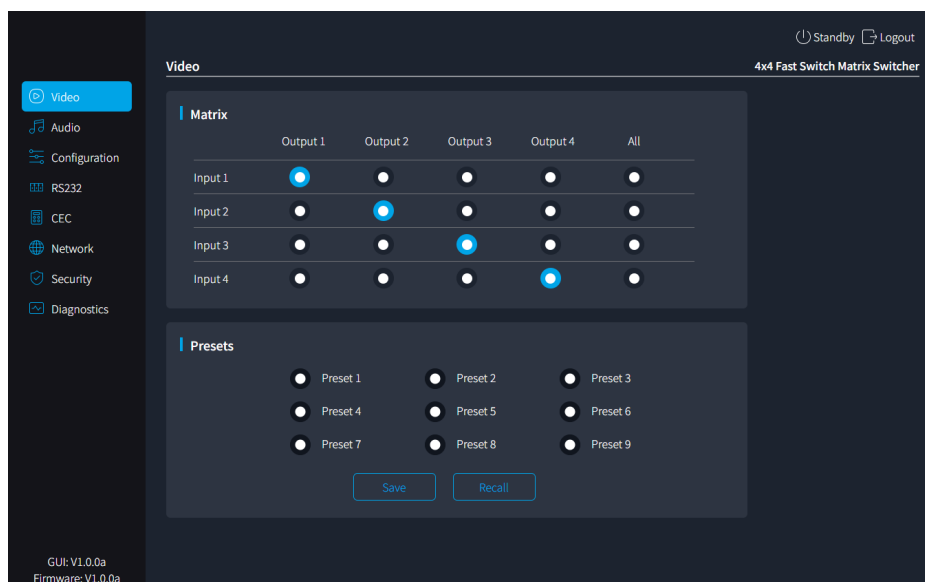
User Name: admin

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.

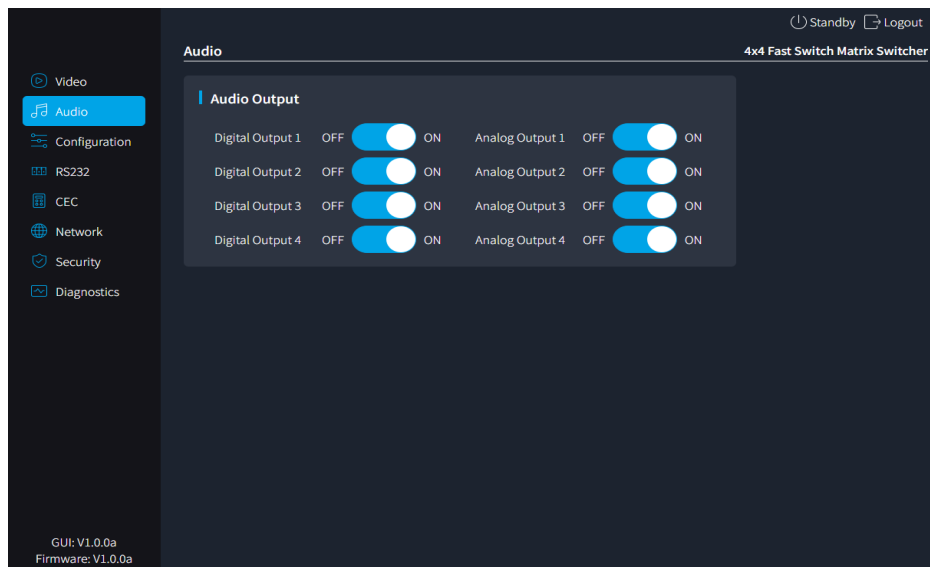
9.1 VIDEO



Matrix: select the input source and output channel.

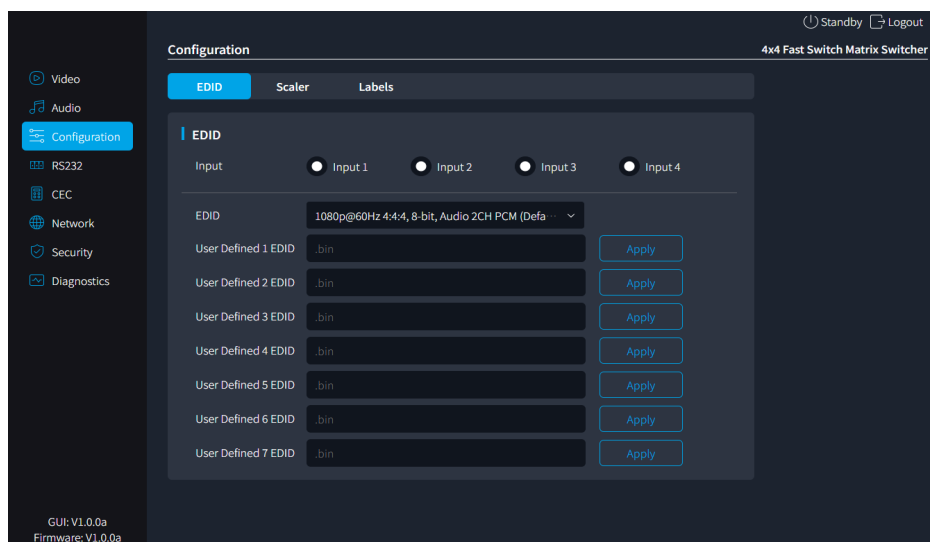
Presets: 9 preset scenes can be saved and recalled.

9.2 AUDIO



Audio Output: turn on/off the digital or analog audio.

9.3 CONFIGURATION

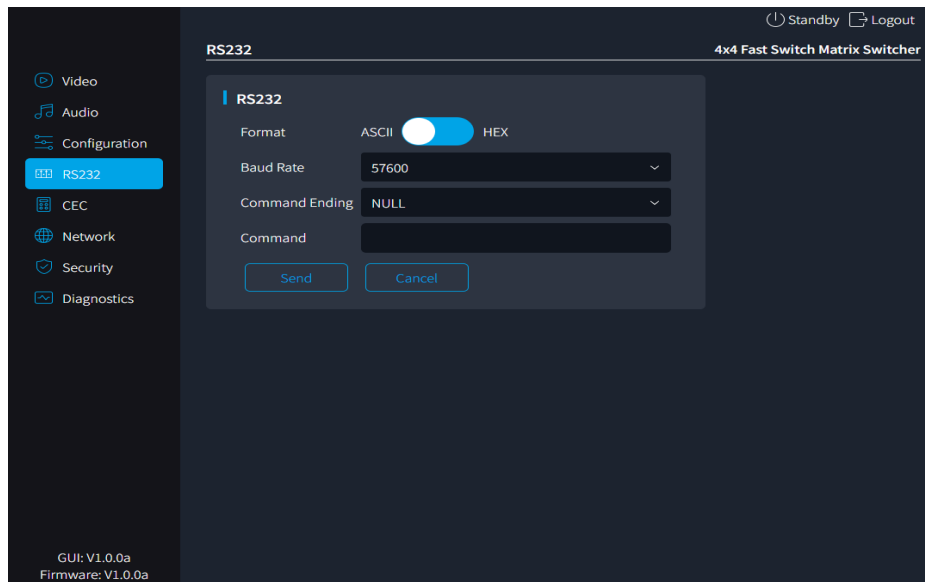


EDID: switch the EDID of input via drop-down bar or use the User Defined EDID.

Scaler: enable output1/2 downscaling follow the sink.

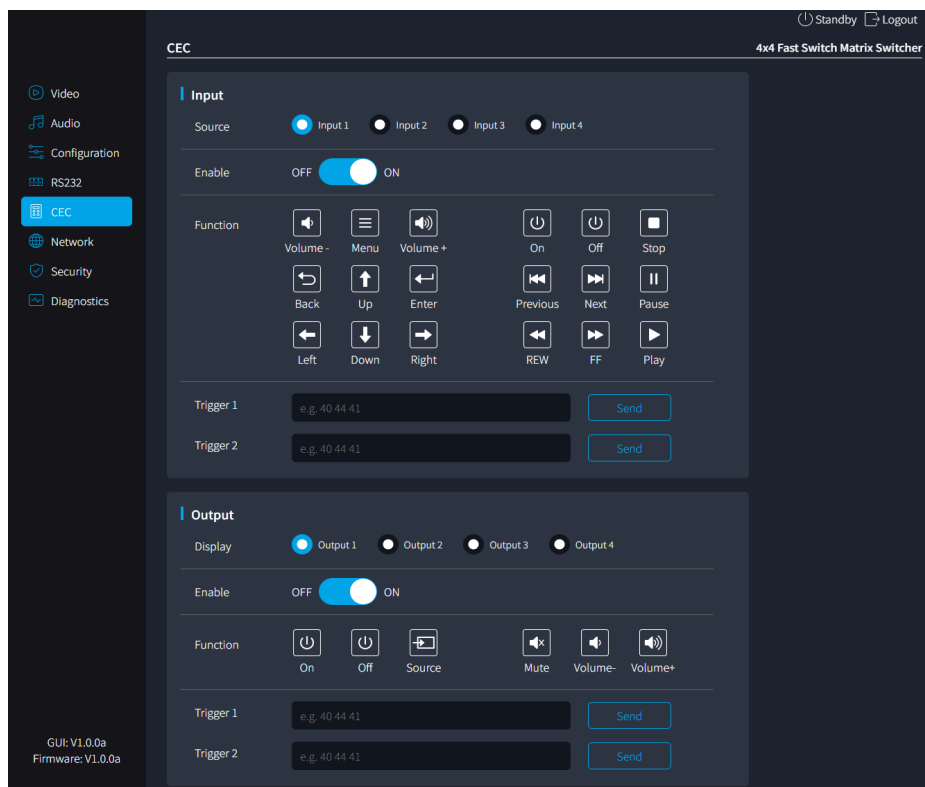
Labels: rename the labels of input/output/preset.

9.4 RS232



RS232: control the device by sending RS-232 commands.

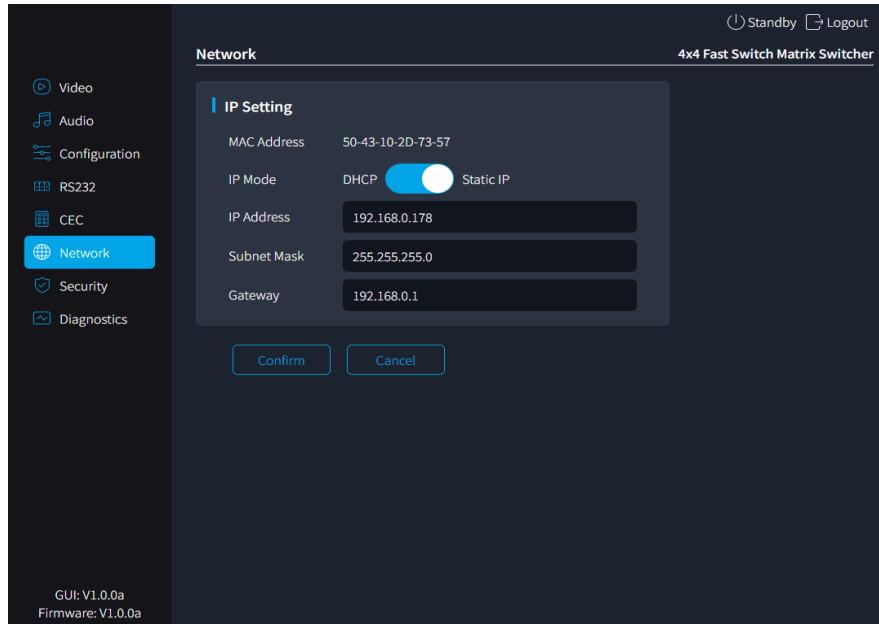
9.5 CEC



Input: control source device via CEC.

Output: control sink device via CEC.

9.6 NETWORK



Standby Logout

Network 4x4 Fast Switch Matrix Switcher

IP Setting

MAC Address 50-43-10-2D-73-57

IP Mode DHCP ☒ Static IP

IP Address 192.168.0.178

Subnet Mask 255.255.255.0

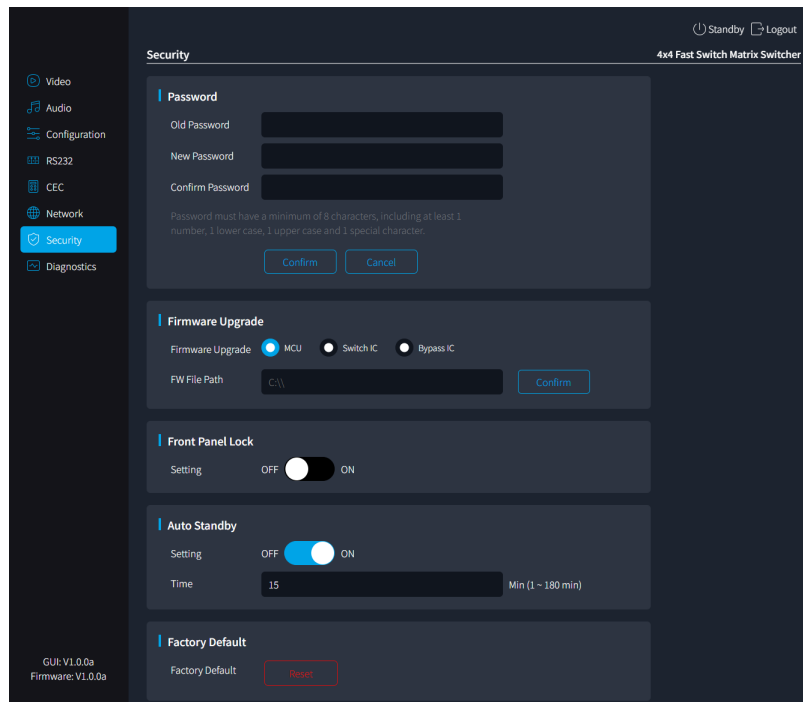
Gateway 192.168.0.1

Confirm Cancel

GUI: V1.0.0a
Firmware: V1.0.0a

IP Setting: configure as DHCP or Static IP as required.

9.7 SECURITY



Standby Logout

Security 4x4 Fast Switch Matrix Switcher

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 ☐ Bypass IC ☐

FW File Path C:\ Confirm

Front Panel Lock

Setting OFF ☐ ON ☒

Auto Standby

Setting OFF ☐ ON ☒

Time 15 Min (1 ~ 180 min)

Factory Default

Factory Default Reset

GUI: V1.0.0a
Firmware: V1.0.0a

Password: change the password according to password policy.

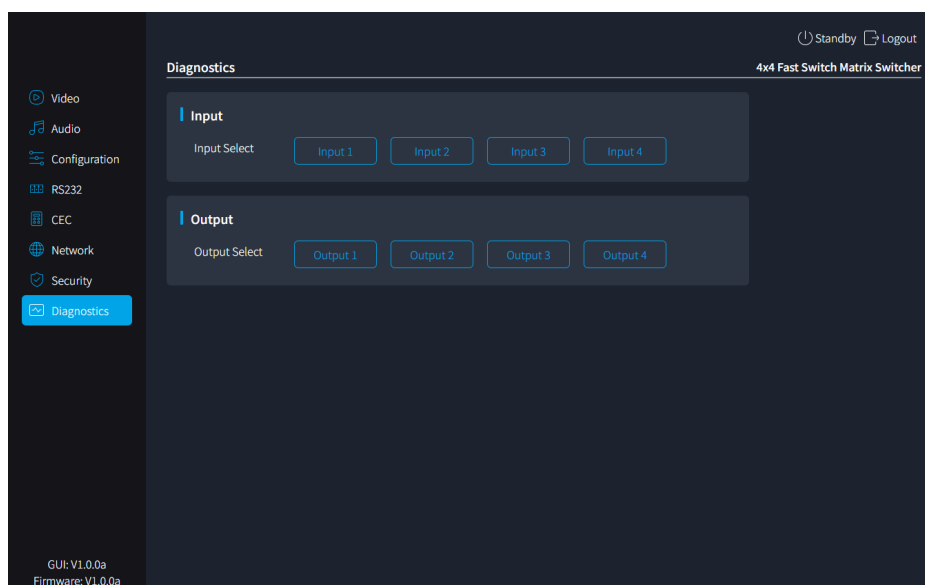
Firmware Upgrade: upload the file to upgrade MCU/Switch IC/Bypass IC.

Front Panel Lock: enable/disable the buttons of front panel.

Auto Standby: enter standby mode If there is no operation and no input signal is detected within 15 minutes.

Factory Default: restore factory settings.

9.8 DIAGNOSTICS



Input: Select input to check the relevant information.

Output: Select output to check the relevant information.

10. RS-232 CONTROL

10.1 RS-232 CONTROL SOFTWARE

Installation: Copy the control software file to the control PC

Uninstallation: Delete all the control software files in corresponding file path.

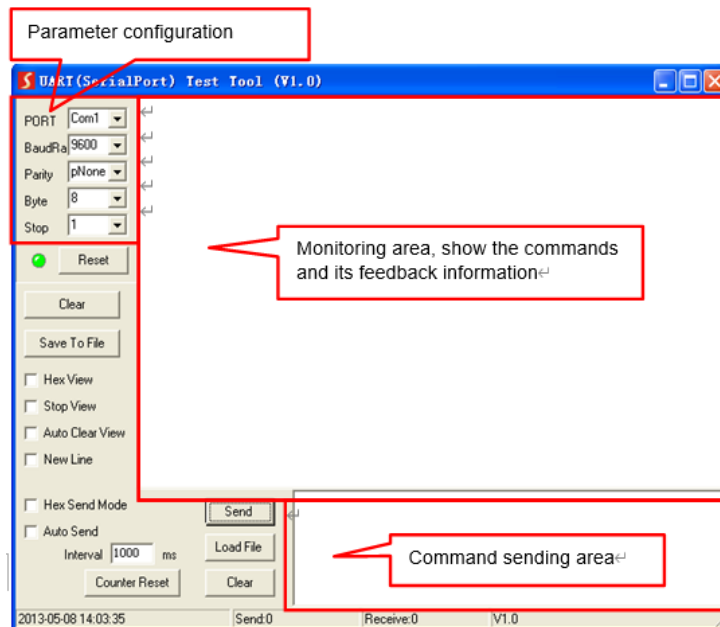
10.2 BASIC SETTING:

Connect the FSC44-H2 with all input devices and output devices needed, then to connect it with a PC which is installed with RS-232 control software. Double-click the software icon to run this software.

Here takes the software CommWatch.exe as example:



The main view is shown as below:



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 **9.2 RS-232 Command**.

10.3 RS-232 COMMAND

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.

10.4 POWER COMMANDS

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

10.5 AV COMMANDS

Command	Function	Example & Feedback
>SetVideo xx To yy	Switch an input Video signal to one or more outputs xx = input channel yy = output channel	>SetVideo 01 To 00
		<Video OUT 01 02 03 04 IN 01 01 01 01
>GetVideo	Get the current Video switching status of input or output channel	>GetVideo
		<Video OUT 01 02 03 04 IN 01 02 03 04
>SetEDID xx To yy	Set the EDID mode xx = 01, 02, ... - Input channel yy = 00 ~ 25, EDID mode 00 - HDMI 1080p@60Hz, Audio 2CH PCM (Default) 01 - HDMI 1080p@60Hz, Audio 5.1CH DTS/DOLBY 02 - HDMI 1080p@60Hz, Audio 7.1CH DTS/DOLBY/HD 03 - HDMI 4K@30Hz 4:4:4, Audio 2CH PCM 04 - HDMI 4K@30Hz 4:4:4, Audio 5.1CH DTS/DOLBY 05 - HDMI 4K@30Hz 4:4:4, Audio 7.1CH DTS/DOLBY/HD 06 - HDMI 4K@60Hz 4:2:0/4K@30Hz 4:4:4, Audio 2CH PCM	>SetEDID 01 To 01
		<EDID IN 01 STA 01

	07 - HDMI 4K@60Hz 4:2:0/4K@30Hz 4:4:4, Audio 5.1CH DTS/DOLBY 08 - HDMI 4K@60Hz 4:2:0/4K@30Hz 4:4:4, Audio 7.1CH DTS/DOLBY/HD 09 - HDMI 4K@60Hz 4:4:4, 8-bit, Audio 2CH PCM 10 - HDMI 4K@60Hz 4:4:4, 8-bit, Audio 5.1CH DTS/DOLBY 11 - HDMI 4K@60Hz 4:4:4, 8-bit, Audio 7.1CH DTS/DOLBY/HD 12 - HDMI 4K@60Hz 4:4:4, HDR 10-bit, Audio 2CH PCM 13 - HDMI 4K@60Hz 4:4:4, HDR 10-bit, Audio 5.1CH DTS/DOLBY 14 - HDMI 4K@60Hz 4:4:4, HDR 10-bit, Audio 7.1CH DTS/DOLBY/HD 15 - HDMI 4K@60Hz 4:4:4, HDR 12-bit, Audio 2CH PCM 16 - HDMI 4K@60Hz 4:4:4, HDR 12-bit, Audio 5.1CH DTS/DOLBY 17 - HDMI 4K@60Hz 4:4:4, HDR 12-bit, Audio 7.1CH DTS/DOLBY/HD 18 - User EDID 1 19 - User EDID 2 20 - User EDID 3 21 - User EDID 4 22 - User EDID 5 23 - User EDID 6 24 - User EDID 7 25 - EDID pass-through (copy from Sink 1)	
>GetEDID	Get the EDID mode	>GetEDID
		<EDID IN 01 02 03 04 STA 01 01 01 01
>SetEDIDMInit	Set All EDID To Default	>SetEDIDMInit
		<EDID IN 01 02 03 04 STA 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
		<User EDID Ready,Please Send EDID Data In 10s. or <SetUpdateEDID_True/False or <Time Out To Send EDID
>SetScaler xx On/Off	Set the output channel scaler mode xx = [01-02] : Output channel xx = [00] : All output channel On : Auto Downscaling Off : Bypass	>SetScaler 01 On or >SetScaler 01 Off
		<Scale OUT 01 STA On
>GetScaler	Get the output channel scaler mode xx = [01-02] : output channelRun command success	>GetScaler
		<Scale OUT 01 02 STA On On
>SetAudioMute xx On/Off	Enable/Disable audio mute xx = [A01-A04] :Analog Audio Output Channal xx = [D01-D04] :Digital Audio Output Channal xx = [00] : All Output Channal	>SetAudioMute A01 On or >SetAudioMute D01 Off
		<AudioMute AUD A01 STA On or <AudioMute AUD D01 STA Off
>GetAudioMute	Get audio mute status	>GetAudioMute
		<AudioMute

		AUD A01 A02 A03 A04 D01 D02 D03 D04 STA On Off Off Off Off Off Off Off
>SavePreset xx	Save output-input relationship setting xx = 01 ~ 09 setting ID	>SavePreset 1
		<Preset 1 Video OUT 01 02 03 04 IN 02 02 02 02
>RecallPreset xx	Call output-input relationship setting xx = 01 ~ 09 setting ID1: None 2: Even 3: Odd Param4 = string	>RecallPreset 1
		<Preset 1 Video OUT 01 02 03 04 IN 02 02 02 02
>GetPreset xx	Get output-input relationship setting xx = 01 ~ 09 setting ID	>GetPreset 1
		<Preset 1 Video OUT 01 02 03 04 IN 02 02 02 02

10.6 NETWORK COMMANDS

>SetIP <xxx.xxx.xxx.xxx> <yyy.yyy.yyy.yyy> <zzz.zzz.zzz.zzz>	Set the GUI IP address 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	Set DHCP Enable/Disable	>SetDHCP On or >SetDHCP Off
		<DHCP On

		<IP: <192.168.0.5> <255.255.255.0> <192.168.0.1> or <DHCP Off <IP: <192.168.0.178> <255.255.255.0> <192.168.0.1>
>GetDHCP	Get DHCP enable status	>GetDHCP
		<DHCP ON

10.7 CEC COMMANDS

>SetCECSrcEnable xx	Send CEC Enable To Source xx = [01-04] Input HDMI Channel xx = [00] : All Input Channel	>SetCECSrcEnable 00
		<CECSrcSta IN 01 02 03 04 STA On On On On
>SetCECSrcDisable xx	Send CEC Disable To Source xx = [01-04] Input HDMI Channel xx = [00] : All Input Channel	>SetCECSrcDisable 00
		<CECSrcSta IN 01 02 03 04 STA Off Off Off Off
>GetCECSrcSta	Get The Source CEC Status	>GetCECSrcSta
		<CECSrcSta <IN 01 02 03 04 <STA On On On On
>SetCECSrcMenu xx	Send CEC Menu command to source xx = 01~04 : Input HDMI channel	>SetCECSrcMenu 00
		<CECSrcMenu 01 <CECSrcMenu 02 <CECSrcMenu 03 <CECSrcMenu 04
>SetCECSrcUp xx	Send CEC UP command to source xx = 01~04 : Input HDMI channel	>SetCECSrcUp 01
		<CECSrcUp 01

>SetCECSrcDown xx	Send CEC DOWN command to source xx = 01~04 : Input HDMI channel	>SetCECSrcDown 01
		<CECSrcDown 01
>SetCECSrcLeft xx	Send CEC LEFT command to source xx = 01~04 : Input HDMI channel	>SetCECSrcLeft 01
		<CECSrcLeft 01
>SetCECSrcRight xx	Send CEC RIGHT command to source xx = 01~04 : Input HDMI channel	>SetCECSrcRight 01
		<CECSrcRight 01
>SetCECSrcBack xx	Send CEC BACK command to source xx = 01~04 : Input HDMI channel	>SetCECSrcBack 01
		<CECSrcBack 01
>SetCECSrcEnter xx	Send CEC OnTER command to source xx = 01~04 : Input HDMI channel	>SetCECSrcEnter 01
		<CECSrcEnter 01
>SetCECSrcOn xx	Send CEC On command to source xx = 01~04 : Input HDMI channel	>SetCECSrcOn 01
		<CECSrcOn 01
>SetCECSrcOff xx	Send CEC Off command to source xx = 01~04 : Input HDMI channel	>SetCECSrcOff 01
		<CECSrcOff 01
>SetCECSrcStop xx	Send CEC STOP command to source xx = 01~04 : Input HDMI channel	>SetCECSrcStop 01
		<CECSrcStop 01
>SetCECSrcPlay xx	Send CEC PLAY command to source xx = 01~04 : Input HDMI channel	>SetCECSrcPlay 01
		<CECSrcPlay 01
>SetCECSrcPause e xx	Send CEC PAUSE command to source	>SetCECSrcPause 01
		<CECSrcPause 01

	xx = 01~04 : Input HDMI channel	
>SetCECSrcPrev xx	Send CEC PREV command to source xx = 01~04 : Input HDMI channel	>SetCECSrcPrev 01
		<CECSrcPrev 01
>SetCECSrcNext xx	Send CEC NEXT command to source xx = 01~04 : Input HDMI channel	>SetCECSrcNext 01
		<CECSrcNext 01
>SetCECSrcRewind xx	Send CEC rewind command to source xx = 01~04 : Input HDMI channel	>SetCECSrcRewind 01
		<CECSrcRewind 01
>SetCECSrcFastForward xx	Send CEC fast-forward command to source xx = 01~04 : Input HDMI channel	>SetCECSrcFastForward 01
		<CECSrcFastForward 01
>SetCECSrcVOLPlus xx	Send CEC volume increase command to source xx = 01~04 : Input HDMI channel	>SetCECSrcVOLPlus 01
		<SetCECSrcVOLPlus 01
>SetCECSrcVOLMinus xx	Send CEC volume decrease command to source xx = 01~04 : Input HDMI channel	>SetCECSrcVOLMinus 01
		<SetCECSrcVOLMinus 01
>SetCECDisplayEnable	Enable the CEC switch of the display xx = 01~04 01~04 - Output HDMI	>SetCECSrcEnable 01
		<CECDisplaySta <OUT 01 <STA On
>SetCECDisplayDisable	Disable the CEC switch of the display	>SetCECDisplayDisable 01
		<CECDisplaySta <OUT 01 <STA Off
		>GetCECDisplaySta

>GetCECDisplaySta	Get the CEC switch of the display	<CECDisplaySta <OUT 01 02 03 04 <STA On On Off Off
>SetCECDisplayOn xx	Send CEC ON command to display xx = 01~99 01~99 - Output HDMI	>SetCECDisplayOn 01
		<CECDisplayOn 01
>SetCECDisplayOff xx	Send CEC OFF command to display xx = 01~99 01~99 - Output HDMI	>SetCECDisplayOff 01
		<CECDisplayOff 01
>SetCECDisplaySource xx	Send CEC SOURCE command to display xx = 01~04 01~04 - Output HDMI	>SetCECDisplaySource 01
		<CECDisplaySource 01
>SetCECDisplayMute xx	Send CEC MUTE command to display xx = 01~99 01~99 - Output HDMI	>SetCECDisplayMute 01
		<CECDisplayMute 01
>SetCECDisplayVOLPlus xx	Send CEC volume plus command to display xx = 01~99 01~99 - Output HDMI	>SetCECDisplayVOLPlus 01
		<CECDisplayVOLPlus 01
>SetCECDisplayVOLMinus xx	Send CEC volume minus command to display xx = 01~99 01~99 - Output HDMI	>SetCECDisplayVOLMinus 01
		<CECDisplayVOLMinus 01
>CEC <xx,yy,zz,ww>	Send user cec command xx = [01-08] 01 : HDMI IN 1 02 : HDMI IN 2 03 : HDMI IN 3 04 : HDMI IN 4 05 : HDMI OUT 1 06 : HDMI OUT 2	>CEC <1,04,44,46>
		<CEC Send To HDMI Input 1:04,44,46

	07 : HDMI OUT 3 08 : HDMI OUT 4 yy = Device Address zz = Opcode ww = Command	
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10.8 SYSTEM COMMANDS

Command	Function	Example & Feedback
>GetFirewareVersion	Get the firmware version	>GetFirewareVersion
		<FW Version:V1.0.0 <GUI Version:V1.0.0 <Switch IC Version:V1.0.0 <Bypass IC Version:V1.0.0
>GetStatus	Get system status	>GetStatus
		<4x4 4K HDMI 2.0 Matrix Switcher <Model:FSC44-H2 <FW Version:V1.0.0 <GUI Version:V1.0.0 <Switch IC Version:V1.0.0 <Bypass IC Version:V1.0.0 <KeyLock Off <Video OUT 01 02 03 04 IN 01 02 03 04 ...
>FactoryReset	Factory config reset to default	>FactoryReset
		<FactoryReset

		<Power On System Initialization..... <4x4 4K HDMI 2.0 Matrix Switcher <FSC44-H2 ...
>Reboot	Reboot the system	>Reboot
		<Reboot
>Help xx	Get the command details xx = the command to query	>Help SetVideo
		>SetVideo param1 To param2,... Switch an input Video signal to one or more outputs param1 = input channel param2 = output channel
>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	>GetType
		<4x4 4K HDMI 2.0 Matrix Switcher
>GetDeviceModel	Get the product name	>GetDeviceModel
		<Model:FSC44-H2

11. 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 Exclusions:**

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.

4) **Documentation:**

Customer Service will accept defective product(s) in the scope of warranty coverage at the sole condition that the defect 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.

Note: For further assistance or solutions, please contact your local distributor.