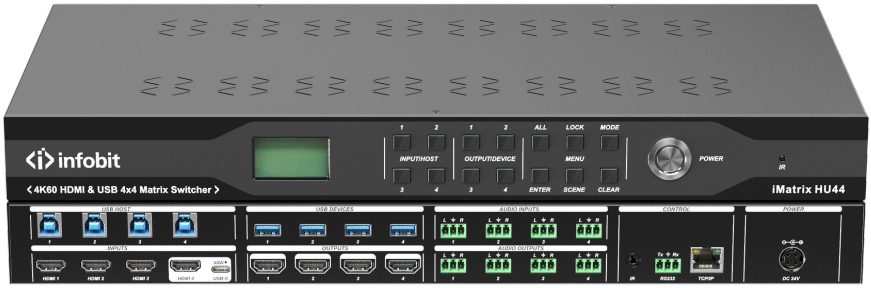
iMatrix HU44

4K60 HDMI & USB 4x4 Matrix switcher

User Manual V1.1



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 July 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 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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1. INTRODUCTION

The **iMatrix HU44** is a hybrid matrix switcher, which owns 4x4 HDMI seamless matrix, 4x4 USB 3.0 matrix and 8x8 audio matrix. It supports video signals up to 4K@60Hz in 4:4:4 resolution, and features audio embedding and de-embedding, supporting analog audio input to replace the HDMI audio and separating audio from the HDMI signal for independent audio and video outputs. 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 **HDMI matrix**
- 4x4 **USB matrix**
- 8x8 **audio matrix**
- HDMI2.0, **4K@60Hz 4:4:4** & HDCP2.2.
- Video **seamless switching**.
- Provides up to **60W PD** charging for USB-C.
- Switch any **USB A device** to any 4 of 5 USB hosts as matrix mode.
- Supports **wired BYOM (Bring Your Own Meeting)** to switching among Room and BYOD PC.
- Be compatible with **USB videobar, camera, speaker, microphones** with brands INFOBIT, Logitech, Poly, Yealink, Jabra and more
- **USB-C and HDMI Input 4** auto detection **and** auto switching**.**
- USB-C **4K60Hz DP1.4** AV Input.
- Supports analog audio **embedding & de-embedding** out.
- Supports **separated presets** saving or recalling for Video switching, USB switching and Audio switching.
- Control via front panel buttons, IR, RS-232 or **TCP/IP (WEB-GUI).**
- Support **CEC** to control displays ON/OFF

- Supports standard **VESA resolutions** and **user-defined resolutions.**

3. PACKAGE LIST

- 1x iMatrix HU44
- 2x 1U mounting ear with screws
- 1x IR Receiver
- 1x Remote Control
- 1x Power Adapter (24V 7.5A)
- 1x Power cable
- 4x Rubber Feet
- 8x 3-pin Phoenix Male Connector
- 1x 3-pin Phoenix Male Connector to DB9
- 1x User Manual

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

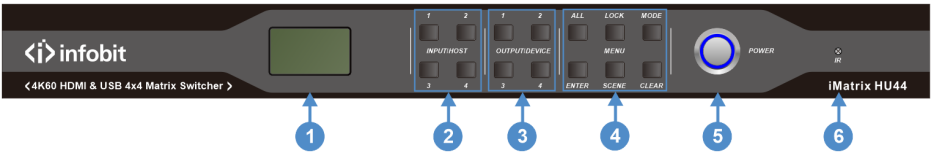
4. SPECIFICATION

Video Input	
Connector	4x HDMI Type A, 1x USB Type C
Version	HDMI 2.0/DP1.4
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
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	<-80dB

Control	
RS-232	Via the RS-232 commands.
IR EYE	Via the third-party device.
IR IN	Via the remote control.
Web-GUI	Via the TCP/IP.
Button	Via the front panel buttons.
General	
Power Supply	24V 7.5A
Operation Temperature	-5℃ ~ +55℃
Storage Temperature	-20℃ ~ +70℃
Relative Humility	0% ~ 80%
Standby Power Consumption	1.9W
Dimension (W*H*D)	436.4mm x 44mm x 235mm
Net Weight	583g

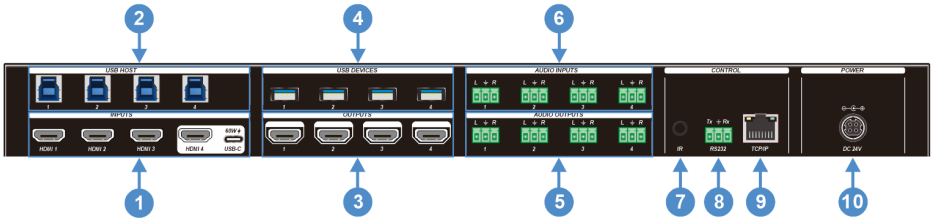
5. PANEL DESCRIPTION

5.1 FRONT PANEL



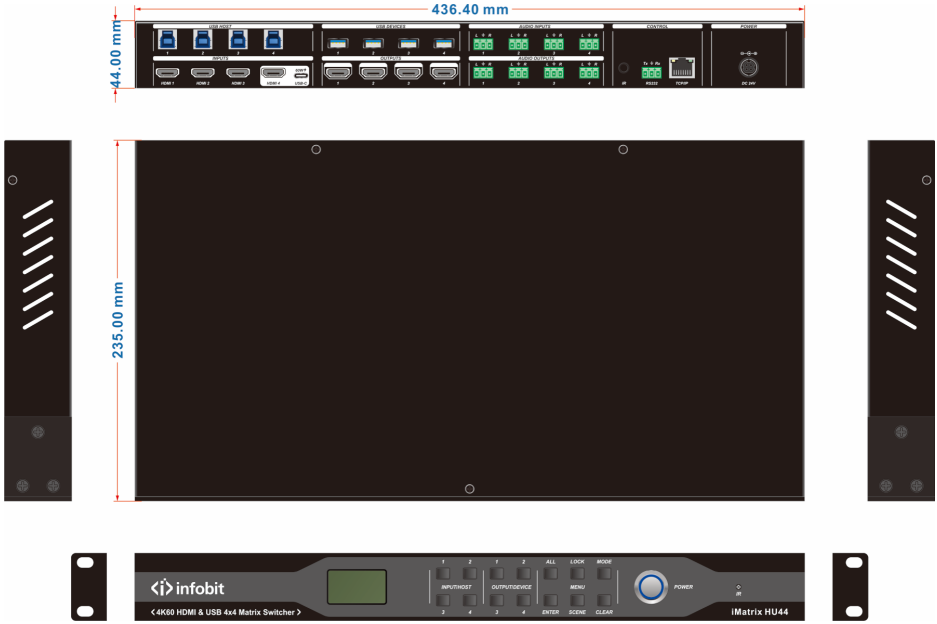
No.	Name	Description
1	LCD SCREEN	1.7 inches, up to show 16x4 characters.
2	INPUT/HOST	4x Black buttons, select the INPUT/HOST.
3	OUTPUT/DEVICE	4x Black buttons, select the OUTPUT/DEVICE.
4	MENU	6x Black buttons. **ALL:** Select all output. **LOCK:** Press and hold 3 seconds to lock/unlock all front buttons. **MODE:** Press to switch the matrix mode (Video/USB). **ENTER:** Confirm the operation **SCENE:** Coordinate with input/output button together to set/recall preset. **CLEAR:** Cancel the previous actions.
5	POWER BUTTON	1x Switch button with ring blue LED **Always on:** The LED is always on when the unit works on. **Off:** The LED is off when the unit works off.
6	IR SENSOR	1x Built-in IR sensor for IR control

5.2 REAR PANEL



No.	Name	Description
1	INPUTS	4x HDMI 2.0 + 1x USB-C, connect to the HDMI/USB-C source. **Note:** Either HDMI 4 or USB-C is the fourth input source, the latest input is the current input (Last In Fist Out, **LIFO**) or switching via Web-GUI/RS232 command. It supports 60W PD for the USB-C Input.
2	USB HOST	4x USB-B, USB 3.0, 5Gbps.
3	OUTPUTS	4X HDMI 2.0, connect the HDMI displays.
4	USB DEVICES	4x USB-A, USB 3.0, 5Gbps.
5	AUDIO OUPUT	4x 3-Pin Phoenix connector, for analog audio output.
6	AUDIO INPUT	4x 3-Pin Phoenix connector, for analog audio input.
7	IR	1x 3.5mm jack, connect the IR receiver to control the unit.
8	RS232	1x 3-Pin Phoenix connector, control the unit and update the MCU.
9	TCP/IP	1x RJ45, control the unit through WEB-GUI.
10	DC	1x 4-pin power connector, DC 24V 7.5A power supply.

5.3 PANEL DRAWING

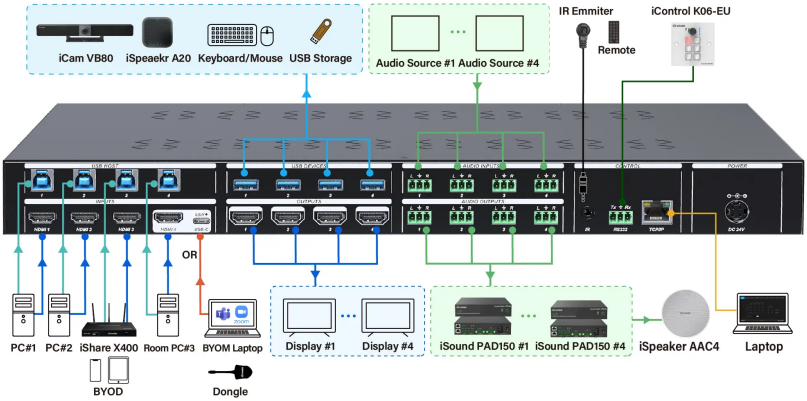


6. SYSTEM CONNECTION

6.1 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.

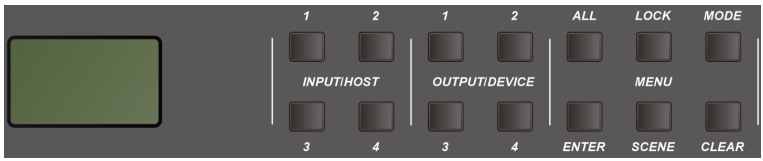
6.2 SYSTEM DIAGRAM



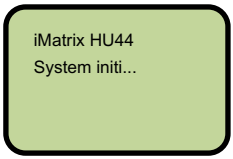
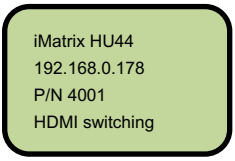
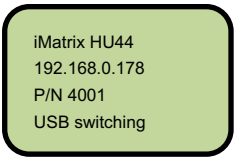
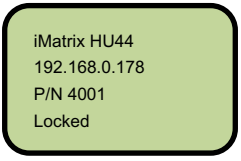
7. FRONT PANEL CONTROL

The unit can realize the HDMI matrix or USB matrix switching via the button on the front panel, and the LCD will synchronically display following the operation. When any operation is completed or if no button is pressed within 5 seconds, return to the "home page". If there is no operation within 10 seconds, the LCD backlight will turn off.

7.1 DEFINITION



- LCD SCREEN:

LCD Screen	Description
	System initialization.
	Home (HDMI matrix mode).
	Home (USB matrix mode).
	Locked page.

- INPUT/HOST: video input or USB host channel.
- OUTPUT: video output or USB device channel.
- ALL: select all output or all USB device channels.
- LOCK: lock/unlock the front panel buttons, press and hold for 3 seconds.
- MODE: select HDMI matrix mode or USB matrix mode.
- ENTER: Confirm the operation.
- SCENE: SCENE+INPUT/HOST x to save the current scene, SCENE+OUTPUT/DEVICE x to recall the current scene.
- CLEAR: Cancel the previous the actions of selecting route.

7.2 BUTTON CONTROL

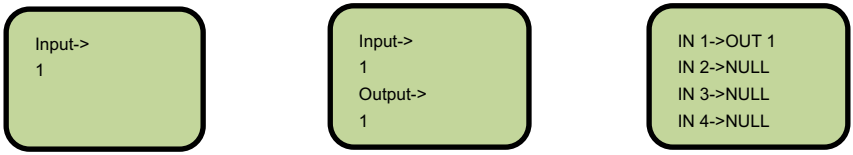
Once any operation is completed or no button presses are made within 5 seconds, the system returns to the "Home" page. If there is no any operation for 10 seconds, the LCD backlight turns off.

7.2.1 MATRIX SWITCHING

The logic of operations is the same between **USB switching** and **HDMI switching**.

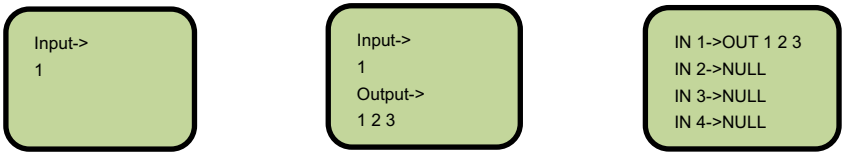
Note: *Here taking video switching as an example, both of them follow the following.*

1 to 1



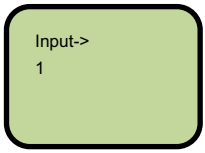
Press any **INPUT/HOST** button to select one input channel, then press any **OUTPUT/DEVICE** button to select one output channel and press the **ENTER** to confirm.

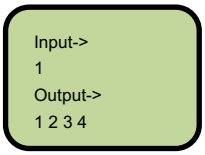
1 TO MORE

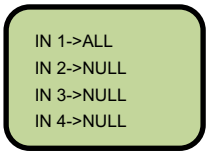


Press any **INPUT/HOST** button to select one input channel, then press more **OUTPUT/DEVICE** buttons to select output channels and press the **ENTER** to confirm.

1 TO ALL

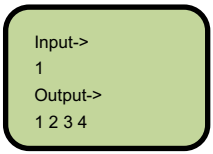


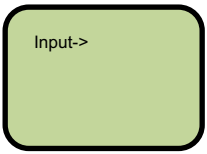




Press any **INPUT/HOST** button to select one input channel, then press **ALL** buttons to select all output channels and press the **ENTER** to confirm.

CLEAR

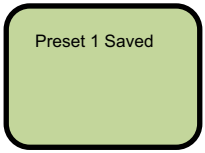


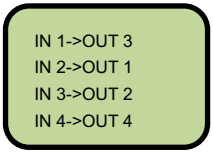


Cancel all current operations before confirmed.

7.2.2 SCENE SAVE/ RECALL

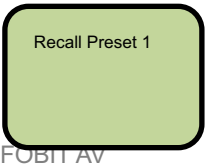
SAVE PRESET

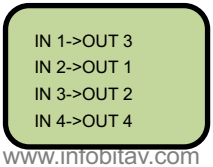




Press the **SCENE** button + **INPUT X (1/2/3/4)** button to save the preset, the LCD will show the **Preset X (1/2/3/4)** is successfully saved for 1 second then showing the corresponding route.

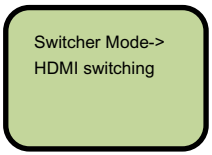
RECALL PRESET

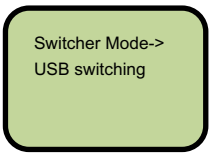


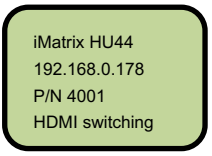


Press the **SCENE** button + **OUTPUT X (1/2/3/4)** button to recall the preset, the LCD will show the **Preset X (1/2/3/4)** is successfully recalled for 1 second then showing the corresponding route.

7.2.3 MODE SWITCHING

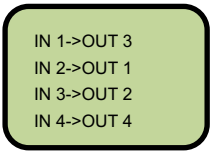






Press the **MODE** button to switching the mode between the HDMI and the USB, then press the **ENTER** to confirm the operation and return the home after finished.

7.2.4 QUERY



Query the current matrix, press any **OUTPUT** button, LCD screen will show of the matrix.

8. IR CONTROL

8.1 VIDEO SWITCHING

- 1 TO 1

  Example: INPUT 1 to OUTPUT 2

  Operation: press 1 + AV + 2 + OK

  - 1 TO MORE

  Example: INPUT 1 to OUTPUT 2 & 3

Operation: press 1 + AV + 2 & 3 + OK

- 1 TO ALL

Example: INPUT 1 to all OUTPUT

Operation: press 1 + AV + OK

8.2 USB SWITCHING

- 1 TO 1

Example: HOST 1 to DEVICE 2

Operation: press 1 + M + 2 + OK

- 1 TO MORE

Example: HOST 1 to DEVICE 2 & 3

Operation: press 1 + M + 2 & 3 + OK

- 1 TO ALL

Example: HOST 1 to all DEVICE

Operation: press 1 + M + ALL + OK

8.3 PRESET SAVE AND RECALL

- PRESET SAVE

Example: Save preset 1

Operation: press Scene+ 1 + OK

- PRESET RECALL

Example: Recall preset 1

Operation: press 1 + Scene + OK

9. WEB-GUI CONTROL

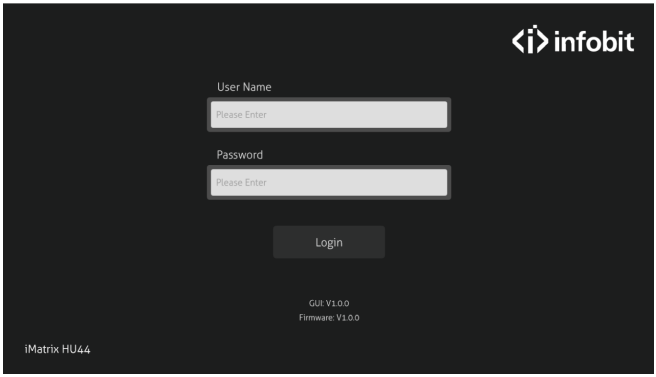
Connect the TCP/IP port of the **iMatrix HU44**. TCP/IP supports static IP by default.

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.

9.1 LOGIN



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

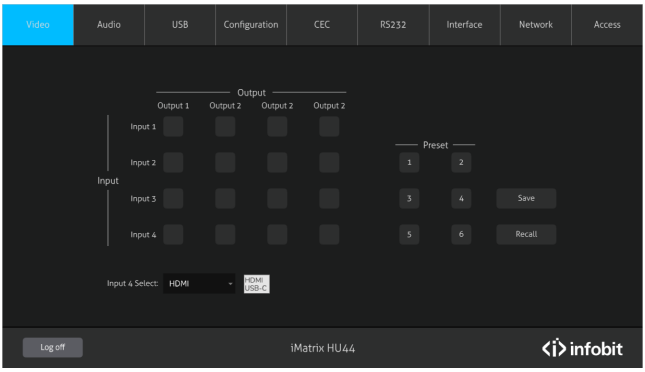
User Name: admin

Password: Admin123@

Last, click Login to enter the main interface.

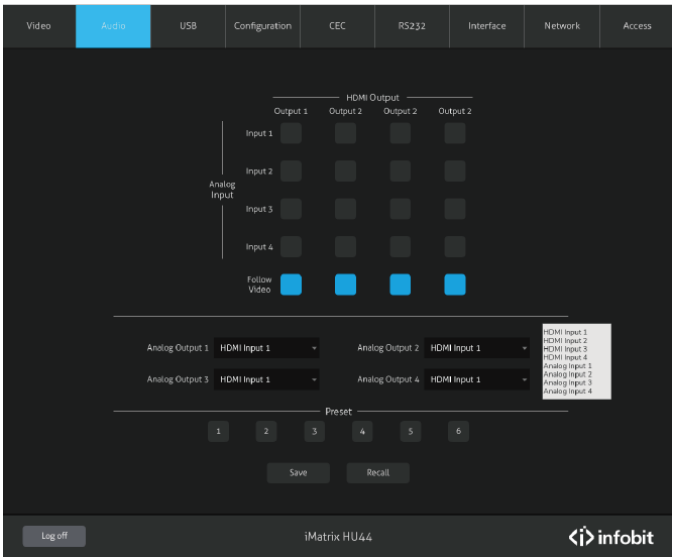
Note: *To protect the safety of the device, please change the default password in time.*

9.2 VIDEO



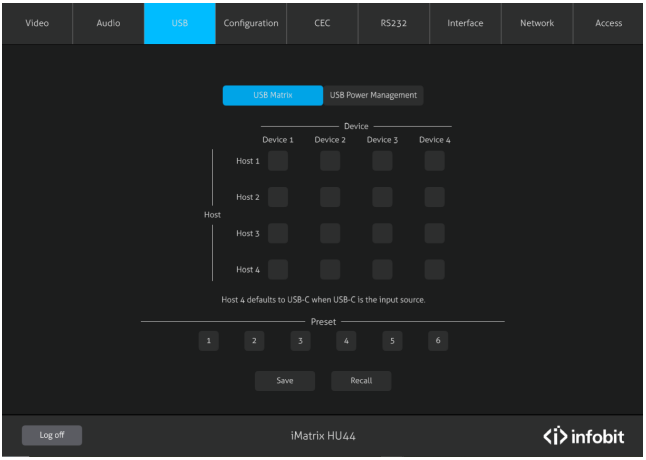
Matrix: select video route.
Presets: 6 video preset scenes can be saved and recalled.

9.3 AUDIO



Matrix: select audio route.
Presets: 6 audio preset scenes can be saved and recalled.

9.4 USB

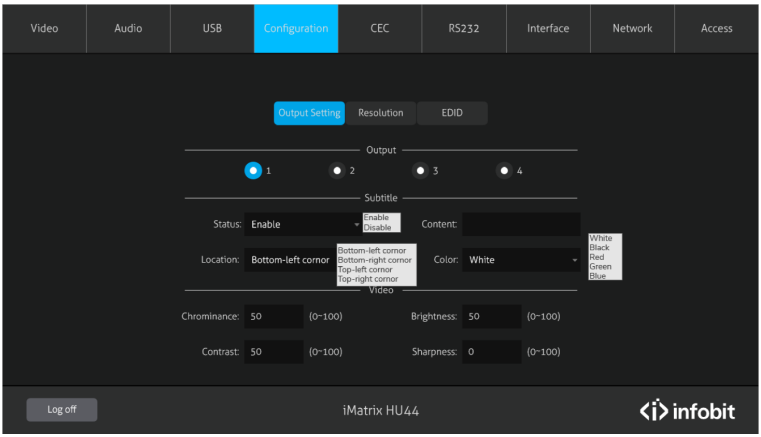


Matrix: select USB route.

Presets: 6 USB preset scenes can be saved and recalled.
USB Power management: set USB devices power to follow Host or always on.

9.5 CONFIGURATION

- OUTPUT SETTING

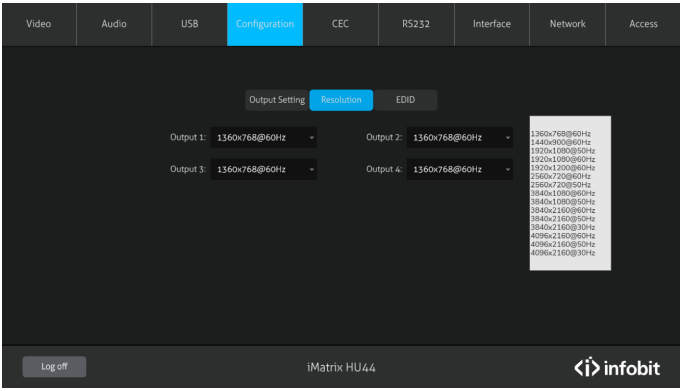


Output: Select the output channel to set.

Subtitle: Set OSD display (up to 16 character).

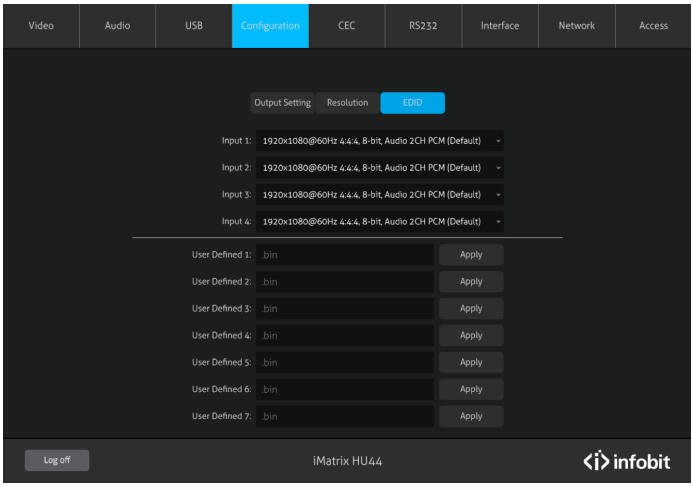
Video: Set the video chrominance, brightness, contrast and sharpness.

- RESOLUTION



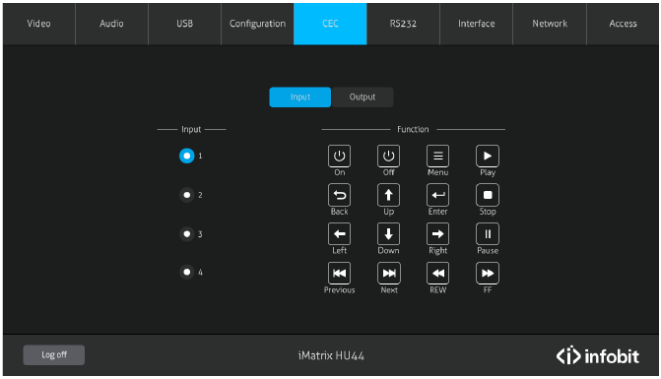
Set a resolution for each output.

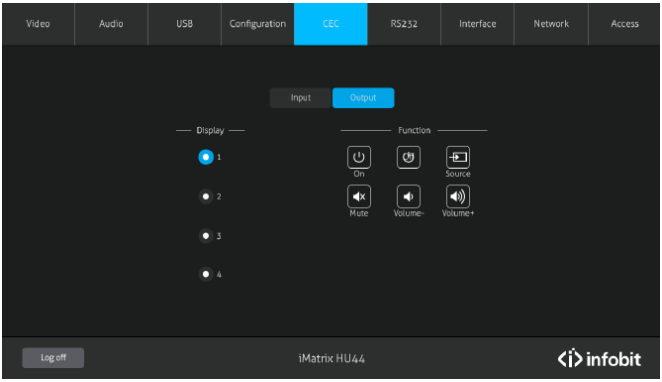
- EDID



Set an EDID for each input.

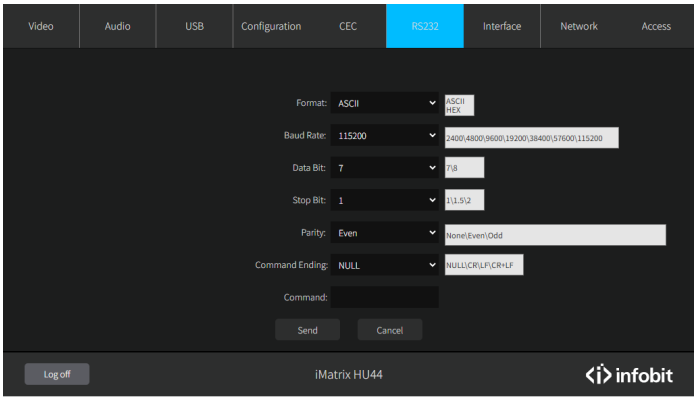
9.6 CEC





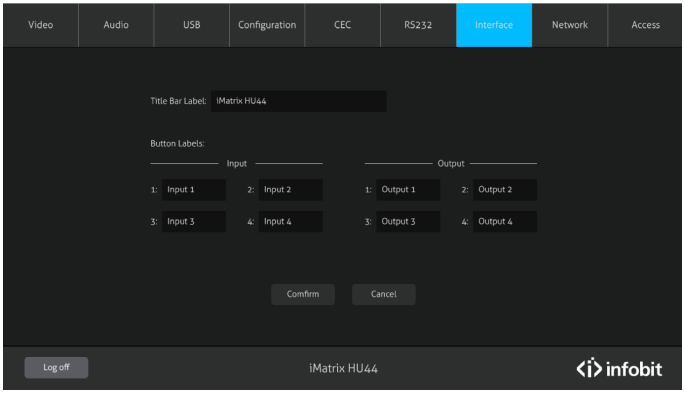
Input: control source device via CEC.
Output: control sink device via CEC.
Note: *Input 4 can't support CEC when it is USB-C*

9.7 RS232



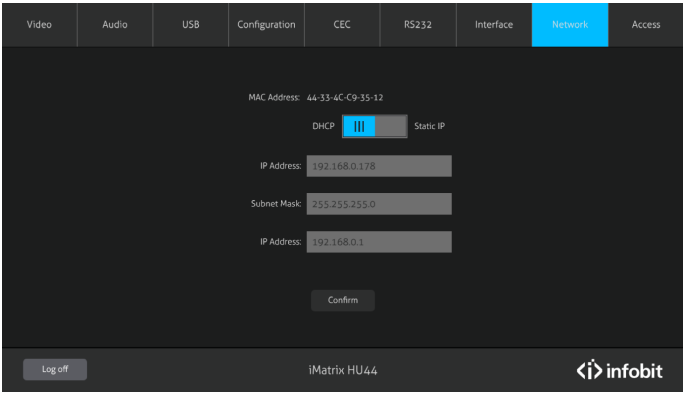
Control the 3rd-party device by sending RS-232 commands.
Note: *The RS232 Parity must be odd or even then RS232 Date Bit can be set as "7", it only can be set to "8" when the Parity is None.*

9.8 INTERFACE



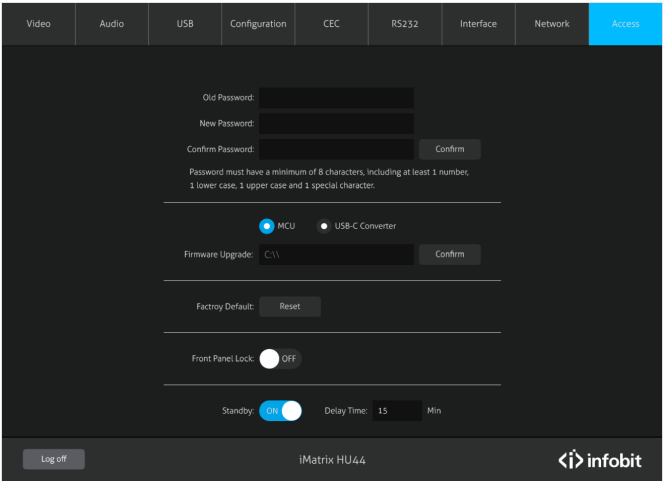
Title Bar Label: Modify the labels of the GUI navigation bar.
Button Label: Modify the labels of the Input or output on the Video page and the Audio page.

9.9 NETWORK



Configure as DHCP or Static IP as required.

9.10 ACCESS



Password: change the password according to password policy.

Firmware Upgrade: upload the file to upgrade MCU.

Factory Default: restore factory settings.

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

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

Factory Default: restore factory settings.

10. RS-232 CONTROL

10.1 RS-232 SOFTWARE

Installation: Copy the control software file to the control PC

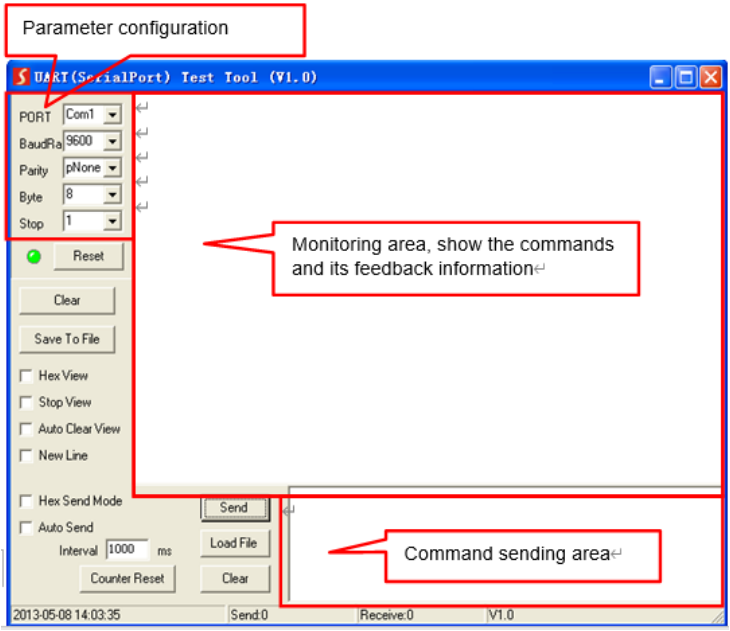
Uninstallation: Delete all the control software files in corresponding file path.

Basic Setting:

Connect the switcher kit 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.

10.2 RS-232 COMMAND

10.2.1 VIDEO SWITCHING

- Baud rate: 115200 (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.

Command	Function	Feedback Example
>SetVideo	>SetVideo Inparam1 To Outparam1, Inparam1 = 01~04 01~04 - Input Outparam1 = 01~04 01~04 - Output	<Video OUT 01 IN 01 <Video OUT 01 02 IN 01 01
>GetVideo	>GetVideo	<Video OUT 01 02 03 04 IN 01 02 03 04
>SetSwitchMode	>SetSwitchMode Param1 param1 = HDMI,USB HDMI - HDMI switch USB - USB switch	<SwitchMode HDMI
>GetSwitchMode	>GetSwitchMode	<SwitchMode HDMI
>SetIn4	>SetIn4 Param1 param1 = 1: HDMI param2 = 2: USBC	<In4 HDMI

10.2.2 USB SWITCHING

Command	Function	Feedback Example
>SetUSB	>SetUSB Inparam1 To Outparam1, Inparam1 = 01~04 01~04 - USB Host Outparam1 = 00 01~04 01~04 - USB Device 00 - All USB Device	<USB DEVICE 01 02 03 04 HOST 01 01 01 01 <USB DEVICE 03 HOST 01
>SetUSBDevPower	>SetUSBDevPower Param1 To Param2 Param1 = 01~04 01~04 - USB Device 1-4 Param2 = 00~01 00: Follow Host(FH) 01: Always On(AO)	<USB DEVICE 01 02 03 04 HOST 01 01 01 01 <USB DEVICE 03 HOST 01
>GetUSB	>GetUSB	<USB DEVICE 01 02 03 04 HOST 01 02 03 04 PowerMode FH

		FH FH FH

10.2.3 AUDIO SWITCHING

Command	Function	Feedback Example
>SetHDMIAudio	>SetHDMIAudio Outparam1 FR Inparam1 Inparam1 = 00~0400: FV(Follow Video)A01~A04: Analog Audio IN1 ~ Analog Audio IN4 Outparam1 = 00~04 00: All HDMI Output01~04: HDMI OUT1~HDMI OUT4 Support the setting of multiple audio output sources,SetHDMIAduio 01,02,04 FR A01	<HDMIAudioOUT 01IN A01<HDMIAudioOUT 01 02 03 04IN A01 A01 A01 A01<HDMIAudioOUT 01 IN FV

>SetAnalogAudio	>SetAnalogAudio Outparam1 FR Inparam1 Inparam1=A01~A04,S01~S04 A01~04:Analog Audio IN1~Analog Audio IN4 S01~S04: HDMI IN1~HDMI IN4 Outparam1=00~04 00: All Analog Audio 01~04: Analog Audio OUT1~Analog Audio OUT4 Support the setting of multiple audio output sources, SetHDMIAduio 01,02,04 FR A01	<AnalogAudio OUT 01 IN S01 <AnalogAudio OUT 01 02 03 04 IN A01 A01 A01 A01 <AnalogAudio OUT 01 IN A01
>GetAudio	>GetAudio	<AnalogAudio OUT 01 02 03 04 IN S01 S02 S03 S04 <HDMIAudio OUT 01 02 03 04 IN A01 A01 A01 A01

10.2.4 PRESET SAVE AND RECALL

Command	Function	Feedback Example

>SaveVideoPreset	>SaveVideoPreset Param Param = 01 ~ 06	<Preset Video 01 OUT 01 02 03 04 IN 01 02 03 04
>RecallVideoPreset	>RecallVideoPreset Param Param = 01 ~ 06	<Preset Video 01 OUT 01 02 03 04 IN 01 02 03 04
>GetVideoPreset	>SaveVideoPreset Param Param = 01 ~ 06	<Preset Video 01 OUT 01 02 03 04 IN 01 02 03 04
>SaveAudioPreset	>SaveAudioPreset Param Param = 01 ~ 06	<Preset Audio 01 OUT 01 02 03 04 IN 01 02 03 04
>RecallAudioPreset	>RecallAudioPreset Param Param = 01 ~ 06	<Preset Audio 01 OUT 01 02 03 04 IN 01 02 03 04
>GetAudioPreset	>SaveAudioPreset Param Param = 01 ~ 06	<Preset Audio 01 OUT 01 02 03 04 IN 01 02 03 04
>SaveUSBPreset	>SaveUSBPreset Param Param = 01 ~ 06	<Preset USB 01 OUT 01 02 03 04 IN 01 02 03 04
>RecallUSBPreset	>RecallUSBPreset Param Param = 01 ~ 06	<Preset USB 01 OUT 01 02 03 04 IN 01 02 03 04
>GetUSBPreset	>SaveUSBPreset Param Param = 01 ~ 06	<Preset USB 01 OUT 01 02 03 04 IN 01 02 03 04

10.2.5 PRAMETER SETTING

Command	Function	Feedback Example
>SetRS232Baud	>SetRS232Baud Param Param = 1 2400 2 4800 3 9600 4 19200 5 38400 6 57600 7 115200	<RS232Baud 57600
>GetRS232Baud	>GetRS233Baud	<RS232Baud 9600
>SetOutputRES	>SetOutputRES Param To Param1 Param = 01 ~ 15 1 - 1360x768@60Hz， 2 - 1440x900@60Hz， 3 - 1920x1080@50Hz， 4 - 1920x1080@60Hz， 5 - 1920x1200@60Hz， 6 - 2560x720@60Hz， 7 - 2560x720@50Hz， 8 - 3840x1080@60Hz， 9 - 3840x1080@50Hz， 10 - 3840x2160@60Hz， 11 - 3840x2160@50Hz， 12 - 3840x2160@30Hz，	<OutputRES OUT 01 02 03 04 RES 1920x1080@60Hz 1920x1080@60Hz 1920x1080@60Hz 1920x1080@60Hz <OutputRES OUT 01 RES 1920x1080@60Hz

	13 - 4096x2160@60Hz， 14 - 4096x2160@50Hz， 15 - 4096x2160@30Hz， Param1 = 01~04 01~04 - Output	
>GetOutputRES	>GetOutputRES	<OutputRES OUT 01 02 03 04 RES 4096x2160@30Hz 4096x2160@30Hz 4096x2160@60Hz 4096x2160@60Hz

>SetEDID	>SetEDID Param1 To Param2 Param1 = 00~04 00 - All Input 01~04 - Input1~Input4 Param2 = 00 ~ 40 00: 1920x1080@60Hz 4:4:4, 8-bit, Audio 2CH PCM (Default) 01: 1920x1080@60Hz 4:4:4, 8-bit, Audio 5.1CH DTS/Dolby 02: 1920x1080@60Hz 4:4:4, 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-	<EDID IN 01 STA 01

	bit, Audio 5.1CH DTS/Dolby 11: 3840x2160@60Hz 4:4:4, 8-bit, Audio 7.1CH DTS/Dolby/HD 12: 3840x2160@60Hz 4:4:4, 10-bit, HDR, (Inc DV), Audio 2CH PCM 13: 3840x2160@60Hz 4:4:4, 10-bit, HDR, (Inc DV), Audio 5.1CH DTS/Dolby 14: 3840x2160@60Hz 4:4:4, 10-bit, HDR, (Inc DV), Audio 7.1CH DTS/Dolby/HD 15: 3840x2160@60Hz 4:4:4, 12-bit, HDR, (Inc DV), Audio 2CH PCM 16: 3840x2160@60Hz 4:4:4, 12-bit, HDR, (Inc DV), Audio 5.1CH DTS/Dolby	

	17: 3840x2160@60Hz 4:4:4, 12-bit, HDR, (Inc DV), Audio 7.1CH DTS/Dolby/HD 18: 4096x2160@30Hz 4:4:4, 8-bit, Audio 2CH PCM 19: 4096x2160@30Hz 4:4:4, 8-bit, Audio 5.1CH DTS/Dolby 20: 4096x2160@30Hz 4:4:4, 8-bit, Audio 7.1CH DTS/Dolby/HD 21: 4096x2160@60Hz 4:2:0, 8-bit, Audio 2CH PCM 22: 4096x2160@60Hz 4:2:0, 8-bit, Audio 5.1CH DTS/Dolby 23: 4096x2160@60Hz 4:2:0, 8-bit, Audio 7.1CH DTS/Dolby/HD 24: 4096x2160@60Hz 4:4:4, 8-bit, Audio 2CH PCM 25: 4096x2160@60Hz 4:4:4, 8-bit, Audio 5.1CH DTS/Dolby 26: 4096x2160@60Hz 4:4:4, 8-bit, Audio 7.1CH DTS/Dolby/HD 27: 4096x2160@60Hz 4:4:4, 10-bit, HDR, (Inc DV), Audio 2CH PCM 28: 4096x2160@60Hz 4:4:4, 10-bit, HDR, (Inc DV), Audio 5.1CH DTS/Dolby 29: 4096x2160@60Hz 4:4:4,	

	10-bit, HDR, (Inc DV), Audio 7.1CH DTS/Dolby/HD 30: 4096x2160@60Hz 4:4:4, 12-bit, HDR, (Inc DV), Audio 2CH PCM 31: 4096x2160@60Hz 4:4:4, 12-bit, HDR, (Inc DV), Audio 5.1CH DTS/Dolby 32: 4096x2160@60Hz 4:4:4, 12-bit, HDR, (Inc DV), Audio 7.1CH DTS/Dolby/HD 33: User Defined 1 34: User Defined 2 35: User Defined 3 36: User Defined 4 37: User Defined 5 38: User Defined 6 39: User Defined 7 40: EDID Pass-through(Copy from sink 1)	
>GetEDID	>GetEDID	<EDID IN 01 02 03 04 STA 01 01 01 01
>SetUpdateEDID	>SetUpdateEDID Param Param = 01~07 01: User Defined 1 02: User Defined 2 03: User Defined 3 04: User Defined 4	<User edid ready,Please send edid data in 10s. <SetUpdateEDID_True/False/ <Time out to send edid

	05: User Defined 5 06: User Defined 6 07: User Defined 7	
>SetSubTitleStatus	>SetSubTitleStatus Param1 TO Param2 Param1 = 01~04 01~04:Output 1~Ouput 4 Param2 = ON,OFF ON - Enable the display of subtitle OFF - Disable the display of subtitle	<SubTitleStatus OUT 01 STA ON
>SetSubTitleContent	>SetSubTitleContent Param1 To Param2 Param1 = 01~04 01~04:Output 1~Ouput 4 Param2 = SubTitle content(31 characters at most）	<SubTitleContent OUT 01 CONTENT abcd

>SetSubTitleLocation	>SetSubTitleLocation Param1 To Param2 Param1 = 01~04 01~04:Output 1~Ouput 4 Param2 = 01~04 01 - Bottom Left(BL) 02 - Bottom Right(BR) 03 - Top Left(TL) 04 - Top Right(TR)	<SubTitleLocation OUT 01 LOCATION BL
>SetSubTitleColor	>SetSubTitleColor Param1 To Param2 Param1 = 01~04 01~04:Output 1~Ouput 4 Param2 = 01~05 01 - White 02 - Black 03 - Red 04 - Green 05 - Blue	<SubTitleColor OUT 01 COLOR White
>SetVideoChrom	>SetVideoChrom Param1 To Param2 Param1=01~04 01~04:Output 1~Ouput 4 Param2 = 0~100	<VideoChrom OUT 01 CHROMINANCE 50

>SetVideoBright	>SetVideoBright Param1 To Param2 Param1=01~04 01~04:Output 1~Ouput 4 Param2 = 0~100	<VideoBright OUT 01 BRIGHTNESS 50
>SetVideoContrast	>SetVideoContrast Param1 To Param2 Param1=01~04 01~04:Output 1~Ouput 4 Param2 = 0~100	<VideoContrast OUT 01 CONTRAST 50
>SetVideoSharp	>SetVideoSharp Param1 To Param2 Param1=01~04 01~04:Output 1~Ouput 4 Param2 = 0~100	<VideoSharp OUT 01 SHARPNESS 50
>GetVideoAttr	>GetVideoAttr	<VideoAttr OUT 01 02 03 04 CHROMINANCE 50 50 50 50 BRIGHTNESS 50 50 50 50 CONTRAST 50 50 50 50 SHARPNESS 50 50 50 50
>SetKeyLock	>SetKeyLock Param Param = On,Off Off - Unlock	<KeyLock On <KeyLock Off

	On - Lock	
>GetKeyLock	>GetKeyLock	<KeyLock Off

10.2.6 CEC SETTING

Command	Function	Feedback Example
>SetCecSrcMenu	>SetCecSrcMenu Param Param = 01 ~ 04 01 - Input HDMI1 02 - Input HDMI2 03 - Input HDMI3 04 - Input HDMI4	<CecSrcMenu 01
>SetCecSrcUp	>SetCecSrcUp Param Param = 01~04 01~04 - Input HDMI	<CecSrcUp 01
>SetCecSrcDown	>SetCecSrcDown Param Param = 01~04 01~04 - Input HDMI	<CecSrcDown 01
>SetCecSrcLeft	>SetCecSrcLeft Param Param = 01~04 01~04 - Input HDMI	<CecSrcLeft 01

>SetCecSrcRight	>SetCecSrcRight Param Param = 01~04 01~04 - Input HDMI	<CecSrcRight 01
>SetCecSrcBack	>SetCecSrcBack Param Param = 01~04 01~04 - Input HDMI	<CecSrcBack 01
>SetCecSrcEnter	>SetCecSrcEnter Param Param = 01~04 01~04 - Input HDMI	<CecSrcEnter 01
>SetCecSrcOn	>SetCecSrcOn Param Param = 01~04 01~04 - Input HDMI	<CecSrcOn 01
>SetCecSrcOff	>SetCecSrcOff Param Param = 01~04 01~04 - Input HDMI	<CecSrcOff 01
>SetCecSrcStop	>SetCecSrcStop Param Param = 01~04 01~04 - Input HDMI	<CecSrcStop 01
>SetCecSrcPlay	>SetCecSrcPlay Param Param = 01~04 01~04 - Input HDMI	<CecSrcPlay 01

>SetCecSrcPause	>SetCecSrcPause Param Param = 01~04 01~04 - Input HDMI	<CecSrcPause 01
>SetCecSrcPrev	>SetCecSrcPrev Param Param = 01~04 01~04 - Input HDMI	<CecSrcPrev 01
>SetCecSrcNext	>SetCecSrcNext Param Param = 01~04 01~04 - Input HDMI	<CecSrcNext 01
>SetCecSrcRewind	>SetCecSrcRewind Param Param = 01~04 01~04 - Input HDMI	<CecSrcRewind 01
>SetCecSrcFastForward	>SetCecSrcFastForward Param Param = S01~S99 S01~S99 - Input HDMI	<CecSrcFastForward 01
>SetCecDisplayOn	>SetCecDisplayOn Param Param = 01~04 01~04 - Output HDMI	<CecDisplayOn 01
>SetCecDisplayOff	>SetCecDisplayOff Param Param = 01~04 01~04 - Output HDMI	<CecDisplayOff 01

>SetCecDisplaySource	>SetCecDisplaySource Param Param = 01~04 01~04 - Output HDMI	<CecDisplaySource 01
>SetCecDisplayMute	>SetCecDisplayMute Param Param = 01~04 01~04 - Output HDMI	<CecODisplayMute 01
>SetCecDisplayVOLPlus	>SetCecDisplayVOLPlus Param Param = 01~04 01~04 - Output HDMI	<CecDisplayVOLPlus 01
>SetCecDisplayVOLMinus	>SetCecDisplayVOLMinus Param Param = 01~04 01~04 - Output HDMI	<CecDisplayVOLMinus 01

10.2.7 SYSTEM SETTING

Command	Function	Feedback Example
>GetFirmwareVersion	>GetFirmwareVersion	<FWVersion: V1.0.0 <GUIVersion: V1.0.0 <CPLDVersion: V1.0.0
>FactoryReset	>FactoryReset	<FactoryReset
>Reboot	>Reboot	<Reboot

>SetPower	>SetPower Param Param = On,Off Off - Power off On - Power on	<Power On <Power Off
>GetPower	>GetPower	<Power On
>SetAutoStandby	>SetAutoStandby Param Param = On,Off Off - Disable On - Enable	<AutoStandby On
>GetAutoStandby	>GetAutoStandby Get the auto power function state	<AutoStandby On
>SetAutoStandbyTime	>SetAutoStandbyTime Param Param = time?（unit: min）	<AutoStandbyTime 2min
>GetAutoStandbyTime	>GetAutoStandbyTime	<AutoStandbyTime 2min
>GetStatus	>GetStatus	<Model: iMatrix HU44 <PowerSta: ON <FWVersion: V1.0.0 <GUIVersion: V1.0.0 <CPLDVersion: V1.0.0 <AutoStandby: ON <AutoStandbyTime: 15min

		<KeyLock: OFF <IP: 192.168.0.178 <GW: 192.168.0.1 <NetMask: 255.255.255.0 <DHCP: OFF ...
>Help	>Help	System Information Command >GetVideo Get The Current Video Switching Status Of Input Or Output Channel >GetSwitchMode Get The Device Switch Mode >GetUSB Get The Current USB Device Connect Status >GetAudio Get The Current Audio Switching Status Of Input Or Output Channel >GetVideoPreset Param Get Video Preset

		Status ...
Command	Function	Feedback Example
>GetFirmwareVersion	>GetFirmwareVersion	<V1.0.0
>FactoryReset	>FactoryReset	<FactoryReset
>Reboot	>Reboot	<Reboot
>SetPower	>SetPower Param Param = On,Off Off - Power off On - Power on	<Power On <Power Off
>GetPower	>GetPower	<Power On
>SetAutoStandby	>SetAutoStandby Param Param = On,Off Off - Disable On - Enable	<AutoStandby On

>GetAutoStandby	>GetAutoStandby Get the auto power function state	<AutoStandby On
>SetAutoStandbyTime	>SetAutoStandbyTime Param Param = time? (unit: min)	<AutoStandbyTime 2min
>GetAutoStandbyTime	>GetAutoStandbyTime	<AutoStandbyTime 2min
>GetStatus	>GetStatus	<Model: iMatrix HU44 <PowerSta: ON <FWVersion: V1.0.0 <GUIVersion: V1.0.0 <CPLDVersion: V1.0.0 <AutoStandby: ON <AutoStandbyTime: 15min <KeyLock: OFF <IP: 192.168.0.178 <GW: 192.168.0.1 <NetMask: 255.255.255.0 <DHCP: OFF ...

11. CUSTOMER SERVICE

The return of a product to our Customer Service implies the full agreement of the terms and conditions hereinafter. There 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 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.

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