USER MANUAL V1.0

4K60HZ HDMI 4X4 SEAMLESS MATRIX / VIDEOWALL / MULTIVIEWER
JTD-3182 I JTECH-4KMVM

Scan the QR code below or visit
https://resource.jtechdigital.com/products/3182
to view and access detailed digital
resources regarding this unit.

Safety Instructions:

- Before using this product, please carefully read the following safety instructions to ensure its proper use and keep this manual for future reference:
- To prevent electric shock, do not attempt to open the product.
- Only qualified personnel should perform any repairs or maintenance.
- Always place the product on a stable, flat surface to prevent it from falling.
- Do not expose the product to water, moisture, or high-humidity environments to avoid the risk of damage.
- To prevent damage from direct sunlight or high temperatures, do not expose the product to such environments.
- Do no place the product near heat sources like radiators, heat registers, stove, or other heat-producing apparatus.
- Do not place any objects on top of the product to avoid damage.
- Use only the attachments and accessories specified by the manufacturer.
- During lightning storms or prolonged periods of disuse, unplug the power supply to prevent damage.

Table of Contents

1. Features

- 4 x HDMI Inputs which can be independently routed to HDMI Outputs. No switching delay or picture loss during transitions
- Supports resolution up to 4K@60HZ 4:4:4
- Supports Video Wall up to 7 different modes with each monitor with 4K@60Hz 4:4:4 resolution
- It can display 4 pictures on the same screen and has multiple split display modes
- Supports HDMI audio formats including Dolby-5.1, DTS-5.1
- Analog audio extraction, and the audio can be independently switching
- HDCP 2.2 compliant with EDID management
- Control via panel button, Remote Control, RS232 Control, TCP/IP Control

2. Package Contents

- 1 x Main Unit (4x4 HDMI Matrix)
- 1 x DC 12V/3A Power Adapter
- 1 x Remote Control
- 1 x Wide-Band IR Receiver Cable
- 1 x CD for User Manual & Command List
- 1 x 3-Pin Phoenix Terminal Plug

3. Specifications

Operating Temperature Range	-5°C ~ 40°C (23°F ~ 104°F)
Storage Temperature Range	-10°C ~ 60°C (-14°F ~ 140°F)
Operating Humidity Range	5 to 90% RH (no condensation)
Input Video Signal	0.5 - 1.0 volts p-p
Input DDC Signal	5 volts p-p (TTL)
Bandwidth	18Gbit/s
Video Formats Supported	4K@60Hz, YUV 4:4:4 8-bit 4K@30Hz / 1080P / 1080i / 720p
Audio Formats Supported	HDMI Digital Audio DTS 5.1 / Dolby 5.1
HDCP Compliance	HDCP 2.2 and HDCP 1.4
Input Ports	4 x HDMI
Output Ports	4 x HDMI
Matrix Mode	4 x 4 Seamless Switching

Video Wall Mode	Multiple Video Wall Modes
Multi-Viewer Mode	Multiple Multi-Viewer Modes
Power Consumption	23W (Max)
Dimensions	L262 x W163 x H36 mm
Mass (Main Unit)	2710g

4. Panel Descriptions

4.1 Front Panel
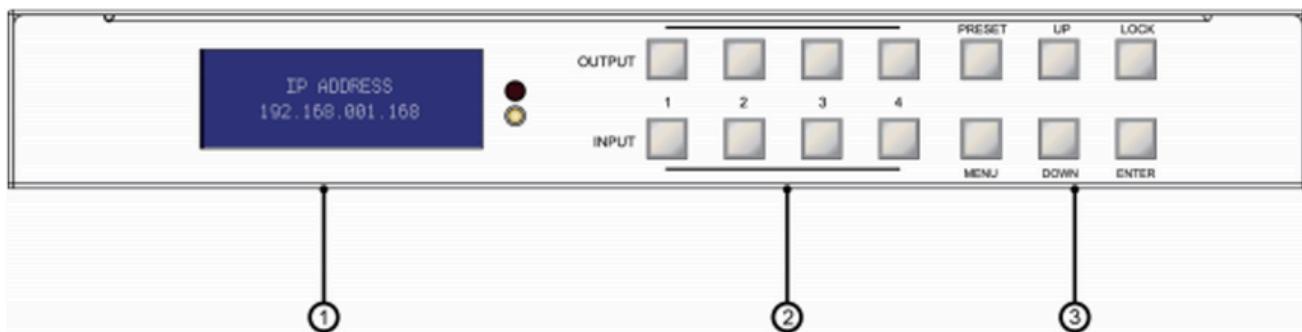
1. LCD Screen and IR receiver port indicator light

2. Output buttons Out 1 ~ 4 and Input buttons In 1 ~ 4

3. Menu buttons: Preset, Menu, Up, Down, Lock, Enter

4.2 Rear Panel
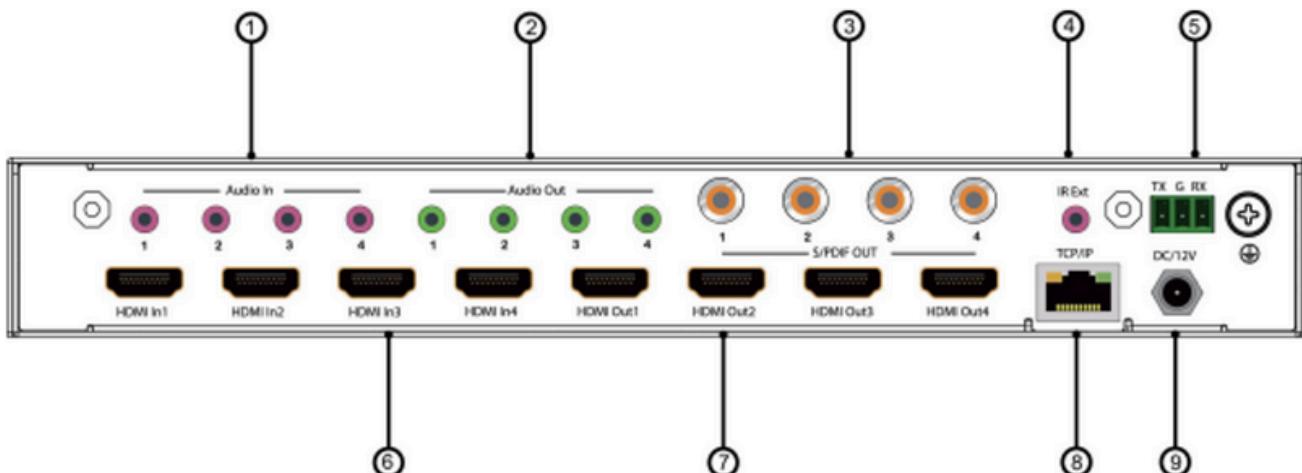
1. Audio In

2. Audio Out

3. S/PDIF Out

4. IR Ext

5. RS232 port

6. HDMI In x 4

7. HDMI Out x 4

8. Ethernet port

9. Power Input 12V / 3A

5. Wiring Diagram

5.1 Seamless Matrix Mode
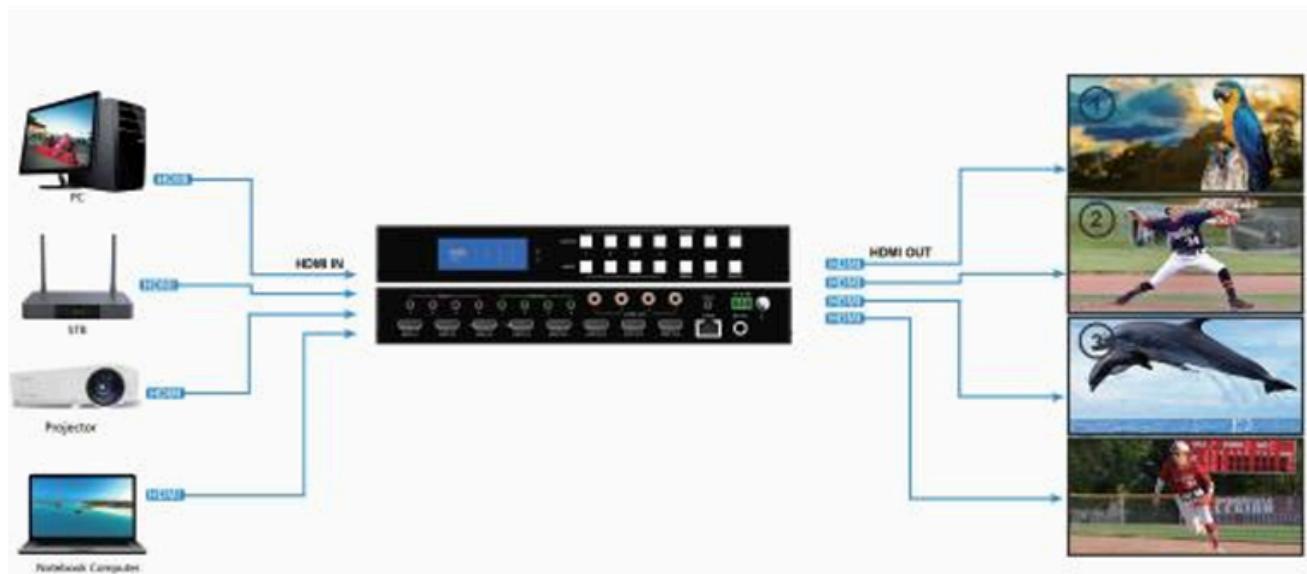
5.2 Video Wall Mode

5.3 Multi-Viewer Mode

6. Input / Output Channel Key Operation

Channel	Button Method
OUT 1-4	1. Directly press the number key, such as input channel 1, and select "1" to press (only when the output port is selected, the input channel number will be valid 2. Long press means that all outputs will select the current input
IN 1-4	Directly press the number key, such as output channel 2, press button "2" and press it again to cancel the selection Long press output 4 to select all channels, and long press again to cancel
MENU	Function button: enter the function option or back to previous option
ENTER	Confirm button: enter function selection mode
UP	Button for UP option
DOWN	Button for NEXT option
PRESET	Preset: short press to quickly enter the preset call function
LOCK	Long press to LOCK, Long press again to UNLOCK

7. Panel Control

7.1 Video

Signal switching includes 4 switching channels, which can be configured as input/output according to requirements to form a matrix of 1×4 ~ 4×4. It can switch any input signal to 1 channel of output or all channels of output.

Operation format: "output channel" + "input channel"

```
Output        1        2        3        4
Input         2        2        2        2
```

For example:

1. Switch output 1 to input 4 source

Operation: press " 1" in Output area + "4" in IN area to complete the switch

2. Output 2, 1, 3 switch to input 2 source

Operation: press "2", " 1" and "3" in Output area + "2" in IN source area to complete the switch 3. Switch all output to input 4 source

Operation: press "4" in Output area + "4" in IN area to complete the switch

7.2 Main Menu

Main menu is divided into 5 module, which are Output, Input, Preset, Config, Info. Each module has multiple sub-menus that need to be set up accordingly.

```
Main >

1 / 5                    1 / 5
Output          >        Output 1       >
Input           >        Output 2       >
Preset          >        Output 3       >
Config          >        Output 4       >
Info            >        All            >
```

7.3 Output

There are 5 sub-menus in Output interface: output 1~4 + all, which are used for individual or all output settings. Each channel contains 3 function items, which are video, audio and power.

```
Main >  Output >

1 / 5                    1 / 3
Output 1        >        Video          >
Output 2        >        Audio          >
Output 3        >        Power          >
Output 4        >
All             >
```

Choose a desired output before setting each video or audio.

There are 10 options in video: Source, On/off, Pattern, Format, Genlock, Mirror, Coord, PIP, Wall, Image, Audio.

There are 4 options in Audio: HDMI on/off, HDMI SRC, DEC onoff, DEC SRC.
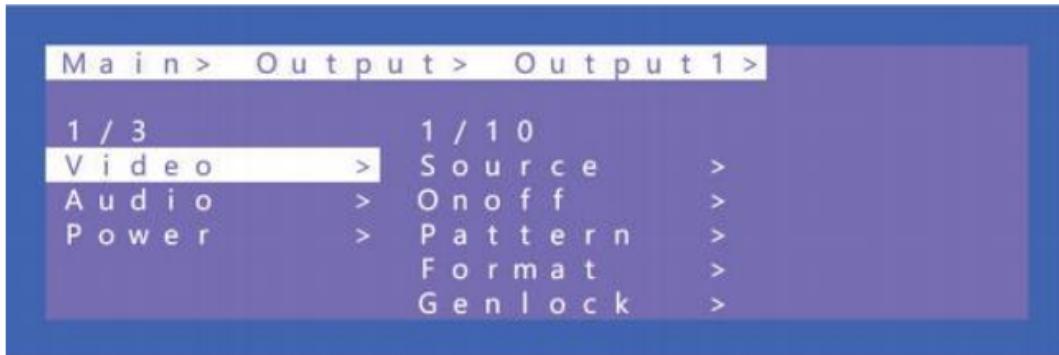
7.3.1 Source

Any output can be switched to one input, or all outputs can be switched to the same input; The default 4x4 matrix is 4-way input and 4-way output one to one output.
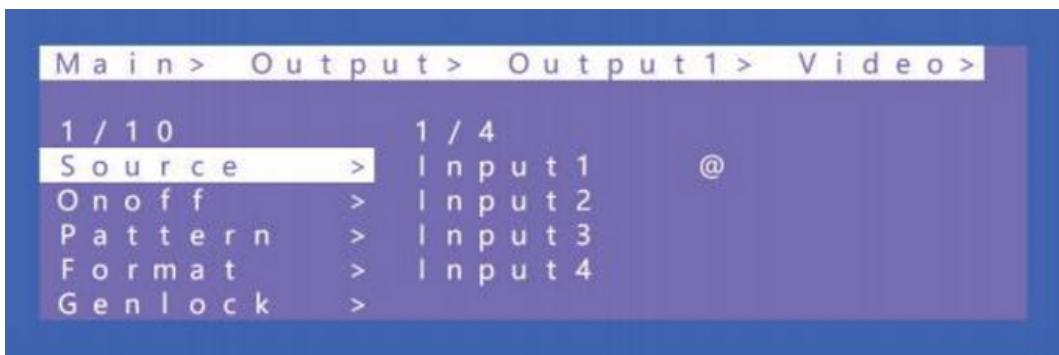
Operation:

① Select "Output" in the main menu and press "ENTER"

② Press "UP" and "DOWN" to select "output1~4, all"

③ Click "ENTER" to enter the next sub-menu.

④ Press " UP" and "DOWN" to choose "Video"

⑤ Click "ENTER" to enter the next sub-menu

⑥ Press "UP" and "DOWN" to select "Source"

⑦ Click "ENTER" to enter the next sub-menu

⑧ Choose input1~4 to complete switching

7.3.2 Onoff

Turn on/off any output , or turn on/off all outputs. The video of outputs are enabled by default.
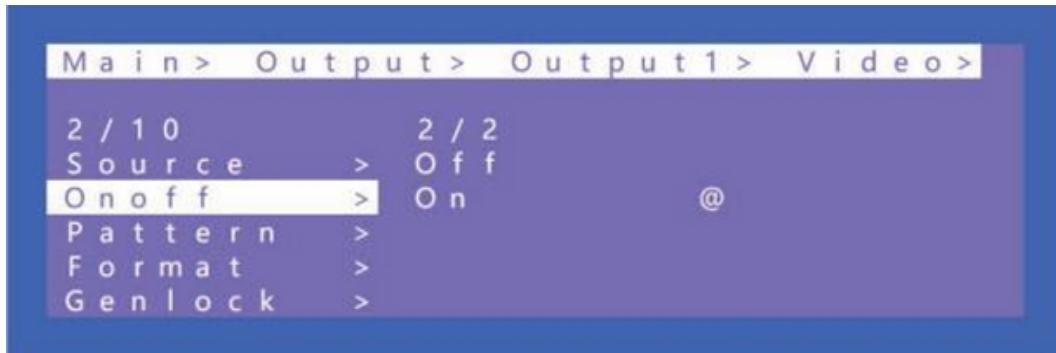
```
Main>   Output>   Output 1>   Video>

2 / 1 0              2 / 2
Source        >   Off
Onoff         >   On                    @
Pattern       >
Format        >
Genlock       >
```

Operation:

① Select "Output" in the main menu and press "ENTER"

② Press "UP" or "DOWN" to select "Output 1~4, all"

③ Click "ENTER" to enter the next sub-menu

④ Press "UP" or "DOWN" to select "Video"

⑤ Press "UP" or "DOWN" to select "Onoff"

⑥ Click "ENTER" to enter the next sub-menu

⑦ Select "On" or "Off", press "ENTER" to complete the operation. The blue screen will be displayed after turning off the output.

7.3.3. Pattern

Built-in image of a matrix can be showed onto the TV by Pattern, which is mainly used for testing in special occasions.

For example: Using Cross or Cross1 images in 4x4 Video Wall mode can test whether each TV frame fits.
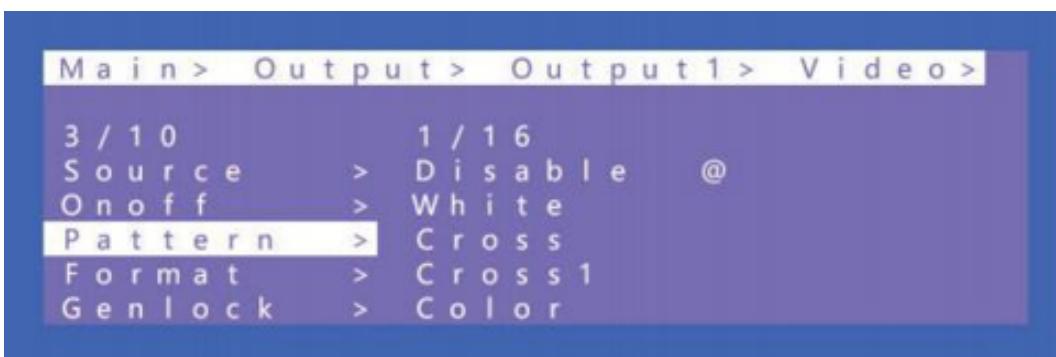
```
Main>   Output>   Output 1>   Video>

3 / 1 0              1 / 1 6
Source        >   Disable      @
Onoff         >   White
Pattern       >   Cross
Format        >   Cross 1
Genlock       >   Color
```

Operation:

① Select "Output" in the main menu and press "ENTER"

② Press "UP" or "DOWN" to select " Output 1~4, all"

③ Click "ENTER" to enter the next sub-menu

④ Press "UP" or "DOWN" to select "Video"

⑤ Press "UP" or "DOWN" to select "Pattern"

⑥ Click "ENTER" to enter the next sub-menu

⑦ Press "UP" or "DOWN" to select "Disable" or other patterns Remarks:

Item 2 to Item 16 represent for different built-in patterns.

7.3.4 Format

This function can set the output resolution format and force the output resolution format. But it does not provide upgraded image quality. Example:

The input is 1080P@60Hz and the output is set to 4K60Hz. Although the TV is displayed in 4K@60Hz format, it is actuallyin1080P@60Hz.

Selecting input mode will enable following input resolution. Switching with matrix will not be seamless unless the resolution from the source is in the same format without HDR.
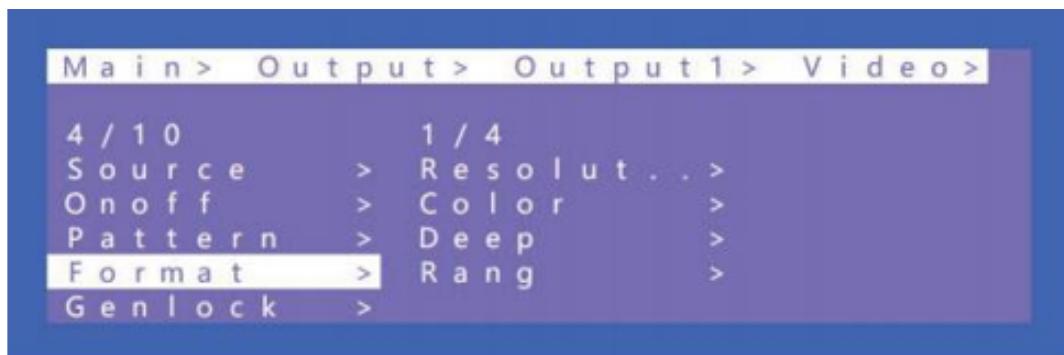

Operation:

① Select "Output" in the main menu and press "ENTER"

② Press "UP" or "DOWN" to select " Output 1~4, all"

③ Click "ENTER" to enter the next sub-menu

④ Press "UP" or "DOWN" to select "Video"

⑤ Press "UP" or "DOWN" to select "Format"

⑥ Click "ENTER" to enter the next sub-menu

⑦ Press "UP" or "DOWN" to select the corresponding resolution, press "ENTER" and there will be a checking time for 10 seconds (It will return to the original resolution if the display does not support the selected resolution).

⑧ Press "ENTER" again during the checking time while the output works well to complete the switch

7.3.5 Genlock

Genlock is used to follow an output and defaults to off. Output 1 is gray and cannot be selected. Only Output 2, Output 3 and Output 4 can be enable. Switching the following output resolution will effect other output images. (The image will be black for a while, and the resolution will be subject to the following output and cannot be changed.)
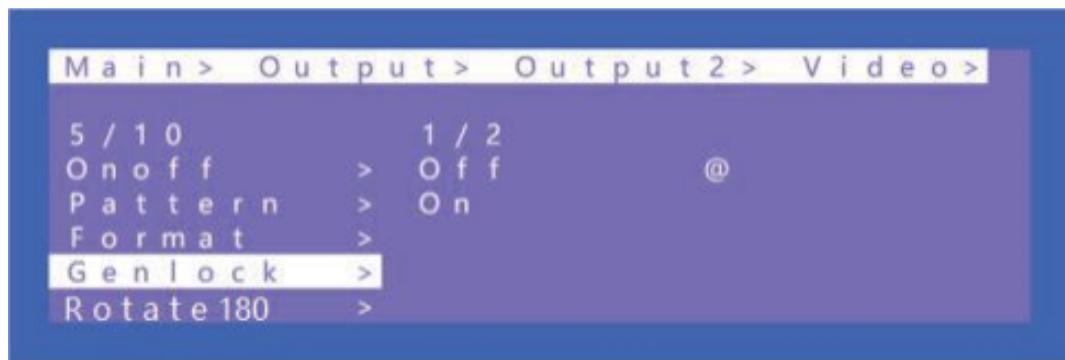
```
Main>  Output>  Output2>  Video>

5 / 1 0                1 / 2
O n o f f        >     O f f          @
P a t t e r n    >     O n
F o r m a t      >
G e n l o c k    >
R o t a t e 180  >
```

Operation:

① Select "Output" in the main menu and press "ENTER"

② Press "UP" or "DOWN" to select " Output 1~4, all"

③ Click "ENTER" to enter the next sub-menu

④ Press "UP" or "DOWN" to select "Video"

⑤ Press "UP" or "DOWN" to select "Genlock"

⑥ Click "ENTER" to enter the next sub-menu

⑦ Press "UP ' or "DOWN" to select " Off" or "On" to complete the operation

7.3.6 Rotate 180°

Operation:

① Select "Output" in the main menu and press "ENTER"

② Press "UP" or "DOWN" to select " Output 1~4, all"

③ Click "ENTER" to enter the next sub-menu

④ Press "UP" or "DOWN" to select "Video"

⑤ Press Rotate180

⑥ Click "ENTER" to enter the next sub-menu

⑦ Press "UP" or "DOWN" to confirm the operation

```
Main>   Output>   Output2>   Video>

6 / 10              1 / 2
O n o f f        >  Yes           >
P a t t e r n    >  No            >
F o r m a t      >
G e n l o c k    >
R o t a t e 180  >
```
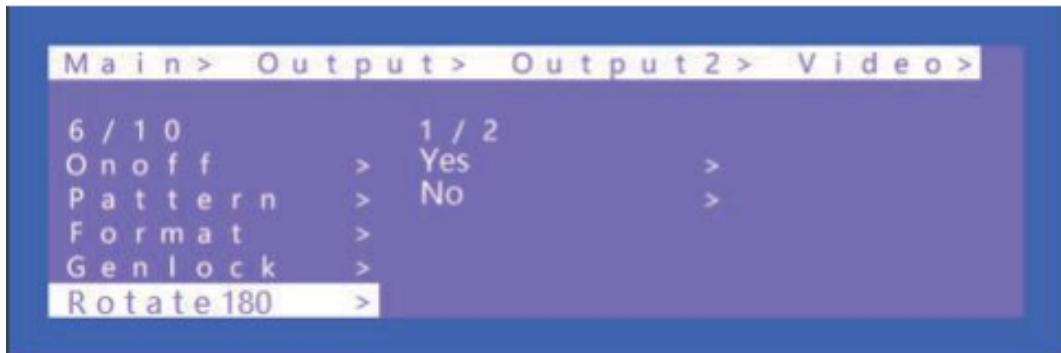
7.3.7 Coord

Coord is mainly used to set the coordinate parameters of the image. There are 3 types including

Coord and Zoom and Gap, which are CROPX0, CROPY0, CROPX1.CROPY1, ZOOMX0, ZOOMY0,

ZOOMX1, CROPY1, GapX, GapY and a total of 10 coordinate parameters.

The function can implement the parameter adjustment of multi-viewer and video wall.

The default start point of Coord : CROPX0 = 0, CROPY0 = 0

The default end point of Crood: CROPX1 = 6000, CROPY1 =6000

The default start point ofZoom: ZoomX0 = 0, ZoomY0 = 0

The default end point ofZoom: ZoomX1 = 6000, ZoomY1 = 6000

The default start point of GapX=0, GapY=0
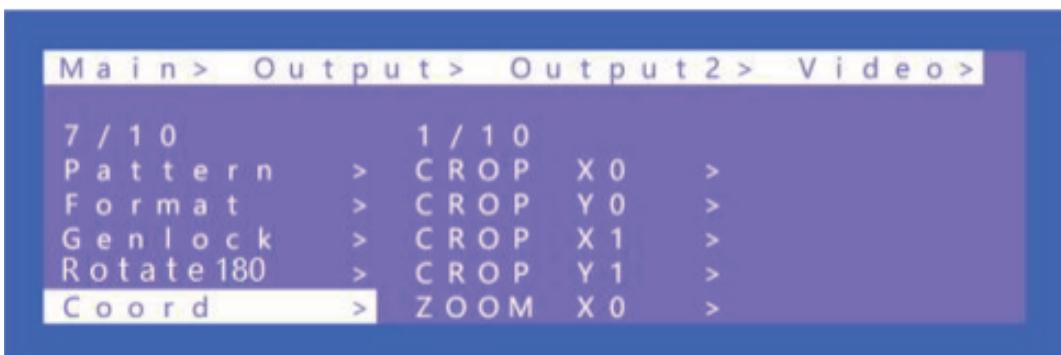
```
Main>   Output>   Output2>   Video>

7 / 1 0              1 / 1 0
P a t t e r n    >  C R O P   X 0   >
F o r m a t      >  C R O P   Y 0   >
G e n l o c k    >  C R O P   X 1   >
R o t a t e 180  >  C R O P   Y 1   >
C o o r d        >  Z O O M   X 0   >
```

Operation:

1 Select "Output" in the main menu and press "ENTER"

② Press "UP" or "DOWN" to select " Output 1~4, all"

③ Click "ENTER" to enter the next sub-menu

④ Press "UP" or "DOWN" to select "Video"

⑤ Press "UP" or "DOWN" to select "Coord"

⑥ Click "ENTER" to enter the next sub-menu

⑦ Press "UP" or "DOWN" to select the desired coordinate of Coord, Zoom and Gap.

⑧ The corresponding display effect will appear on the TV

7.3.8 PIP

PIP is mainly used for the layer priority. By default, each output has 4 layers. It can change the sequence of the layers in multi-viewer mode. Each layer can choose an output. You can turn on/off this function by Status.
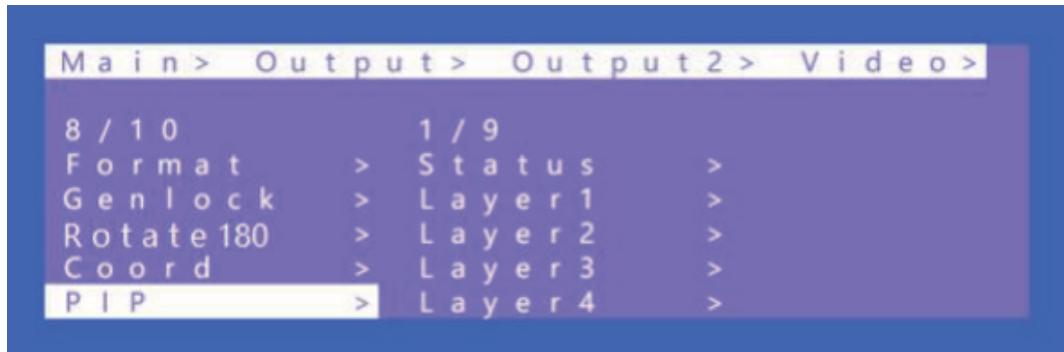

Operation:

① Select "Output" in the main menu and press "ENTER"

② Press "UP" or "DOWN" to select " Output 1~4, all"

③ Click "ENTER" to enter the next sub-menu

④ Press "UP" or "DOWN" to select "Video"

⑤ Press "UP" or "DOWN" to select "PIP"

⑥ Click "ENTER" to enter the next sub-menu

⑦ Press "UP" or "DOWN" to select Status on-off. The layer takes effect after it is enable.

⑧ Layer1~4 can choose the corresponding output1~4

Remarks: A layer can select only one output, cannot select it repeatedly, otherwise it does not take effect

7.3.9 Wall

Wall is used to set the coordinate position of the TV. By default, it is in accordance with the matrix silkscreen making sequence. Set the parameter of CoordX, CoordY + Width, Height after determining the actual position of the TV according to the OSD on the TV. The coordinate position of TV in Video Wall can be changed by using Coord. Width and Height indicate the number of video wall tiling.
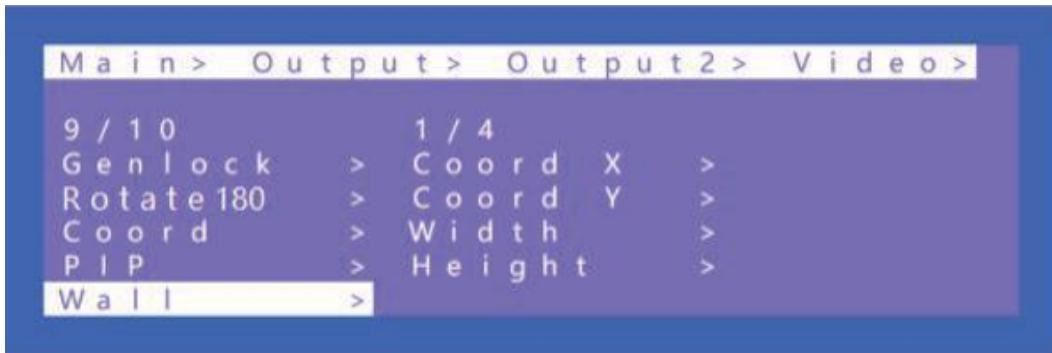
```
Main>  Output>  Output2>  Video>

9 / 10              1 / 4
Genlock      >   Coord  X    >
Rotate 180   >   Coord  Y    >
Coord        >   Width       >
PIP          >   Height      >
Wall         >
```

Operation:

① Select "Output" in the main menu and press "ENTER"

② Press "UP" or "DOWN" to select " Output 1~4, all cannot be selected"

③ Click "ENTER" to enter the next sub-menu

④ Press "UP" or "DOWN" to select "Video"

⑤ Press "UP" or "DOWN" to select "Wall"

⑥ Click "ENTER" to enter the next sub-menu

⑦ Press "UP" or "DOWN" to select the coordinate of CoordX or CoordY. The default coordinate for 2x2 video wall:

Out1(X:0, Y:0) Out2(X:1, Y:0) Out3(X:0, Y:1) Out4(X:1, Y:1)

⑧ Set the number of horizontal and vertical splices. Set the number of horizontal and vertical of the first output, the rest outputs will automatically generate a video wall according to the coordinate. For example:

The default sequence of video wall of output 1 and output 2 is reversed.

Set the coordinate of output 2 to X0Y0, horizontal 2 and vertical1.

Set the coordinate of output 1 to X1Y0, horizontal auto, vertical auto.

Set the coordinate of output 3 to X0Y1, horizontal auto, vertical auto.

Set the coordinate of output 4 to X1Y1, horizontal auto, vertical auto

7.3.10 Image

Image is used to set the parameters of output image. There are 4 parameters: Brightness, Contrast, Saturation, Hue, Parameter Ranges from 0 to100 and it is 50 by default.
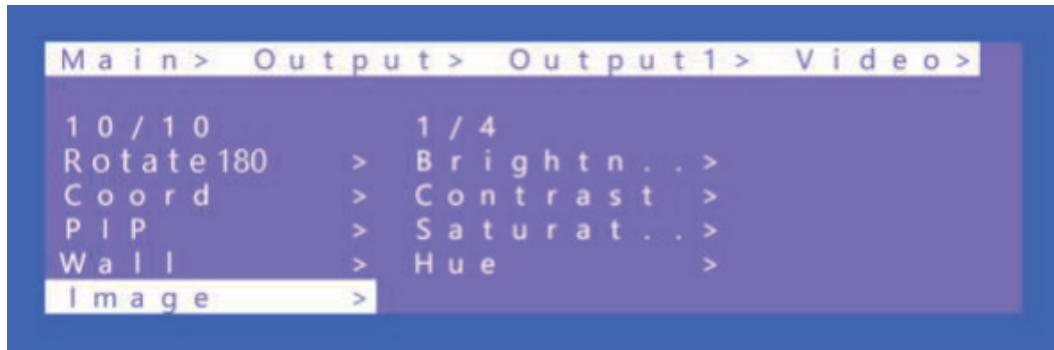
```
Main>  Output>  Output1>  Video>

10/10          1/4
Rotate 180    >  Brightn...>
Coord         >  Contrast  >
PIP           >  Saturat...>
Wall          >  Hue       >
Image         >
```

Operation:

① Select "Output" in the main menu and press "ENTER"

② Press "UP" or "DOWN" to select " Output 1~4", do not select "all"

③ Click "ENTER" to enter the next sub-menu

④ Press "UP" or "DOWN" to select "Video"

⑤ Press "UP" or "DOWN" to select "Image"

⑥ Click "ENTER" to enter the next sub-menu

⑦ Press "UP" or "DOWN" to select "Brightness" or other selections + "ENTER" to enter the next sub-menu

⑧ Do the adjustment according to the visual effect of the output image

7.4 Audio

There are 4 function options in Audio: HDMI Onoff, HDMI SRC, DEC Onoff, DECSRC. It can implement audio switching independently, turn off HDMI audio output and audio De-embedding as well as Audio De-embedding switch.

```
Main>  Output>  Output1>

2/3            1/4
Video        >  HDMI  On...>
Audio        >  HDMI  SRC  >
Power        >  DEC  Onoff >
                DEC  SRC   >
```
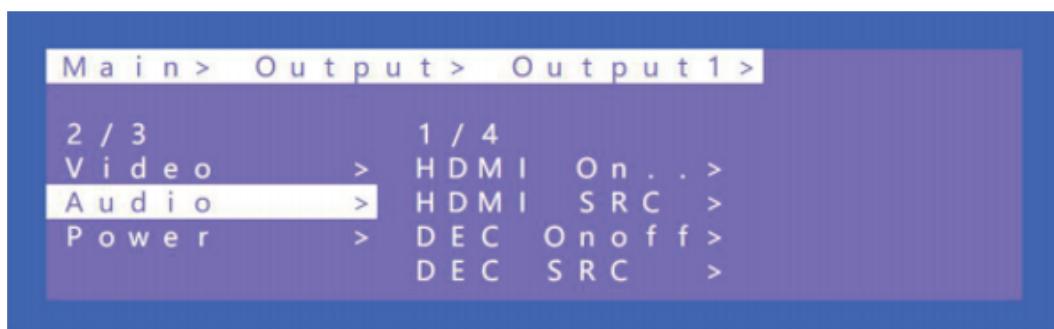
7.4.1 HDMI Onoff

HDMI onoff can implement on-off of HDMI output audio. Image will be displayed on TV without sound when turn off the audio.
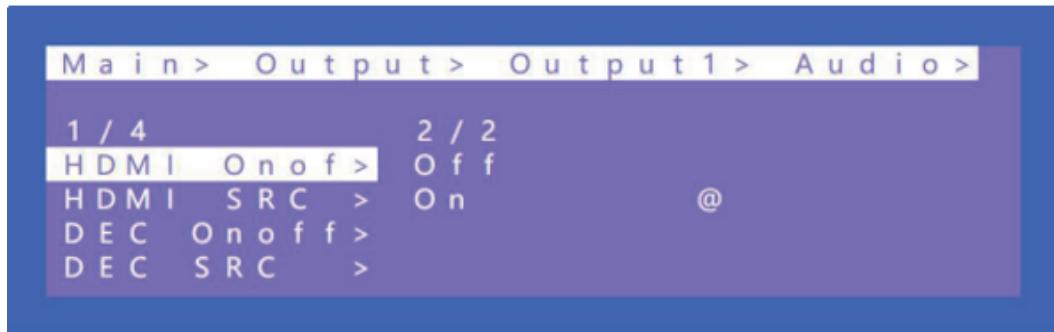
```
Main>   Output>   Output1>   Audio>

1 / 4              2 / 2
HDMI    Onof>      Off
HDMI    SRC  >     On              @
DEC   Onoff>
DEC   SRC    >
```

Operations:

① Select "Output" in the main menu and press "ENTER"

② Press "UP" or "DOWN" to select " Output 1~4, all"

③ Click "ENTER" to enter the next sub-menu

④ Press "UP" or "DOWN" to select "Video"

⑤ Press "UP" or "DOWN" to select "HDMI Onoff"

⑥ Click "ENTER" to enter the next sub-menu

⑦ Press "UP" or "DOWN" to select "ON" or "Off" to complete the operation

7.4.2 HDMI SRC

HDMI SRC enables switching to different input signal sources. It supports switching to analog audio in 1~4, HDMI input 1~4.

Auto HDMI indicates following the corresponding input.

Auto ENC indicates the corresponding audio in.

That is, audio follow the matrix switch of inputs, not switch other audio source and Auto HDMI is default.
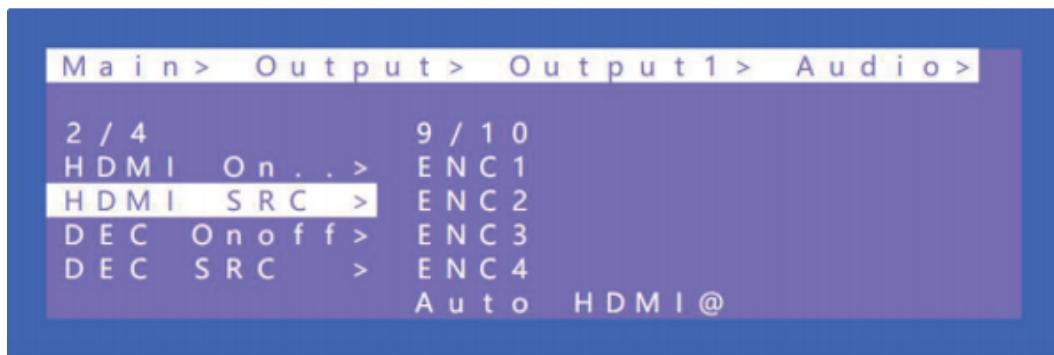
```
Main>   Output>   Output1>   Audio>

2 / 4              9 / 10
HDMI    On..>      ENC 1
HDMI    SRC  >     ENC 2
DEC   Onoff>       ENC 3
DEC   SRC    >     ENC 4
                   Auto   HDMI @
```

Operations:

① Select "Output" in the main menu and press "ENTER"

② Press "UP" or "DOWN" to select " Output 1~4, all"

③ Click "ENTER" to enter the next sub-menu

④ Press "UP" or "DOWN" to select "Audio" and enter the next sub-menu

⑤ Select HDMI1~4 or ENC1~4 and press "ENTER" to complete the audio switching

7.4.3 DEC Onoff

 DEC onoff can implement the audio out switch. Click "On" to turn on the audio, click "Off" to turn off the audio. It is on by default.
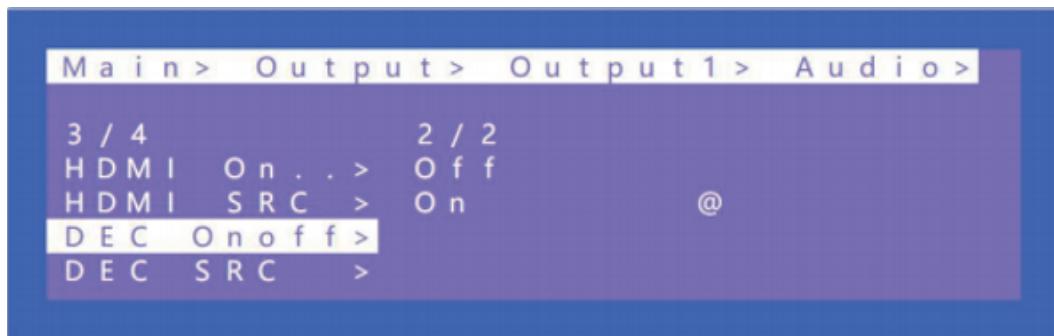
```
Main >   Output >   Output 1 >   Audio >

3 / 4                 2 / 2
H D M I    O n . . >   O f f
H D M I    S R C   >   O n              @
D E C   O n o f f >
D E C   S R C      >
```

Operations:

① Select "Output" in the main menu and press "ENTER"

② Press "UP" or "DOWN" to select " Output 1~4, all"

③ Click "ENTER" to enter the next sub-menu

④ Press "UP" or "DOWN" to select "Audio" and enter the next sub-menu

⑤ Select "HDMI Onoff" to turn on/off the audio out

7.4.4 DEC SRC

DEC SRC enables that the audio extracts to different input source, which can switch to HDMI input 1~4. Auto HDMI indicates that it follows the corresponding input. The default is auto HDMI.
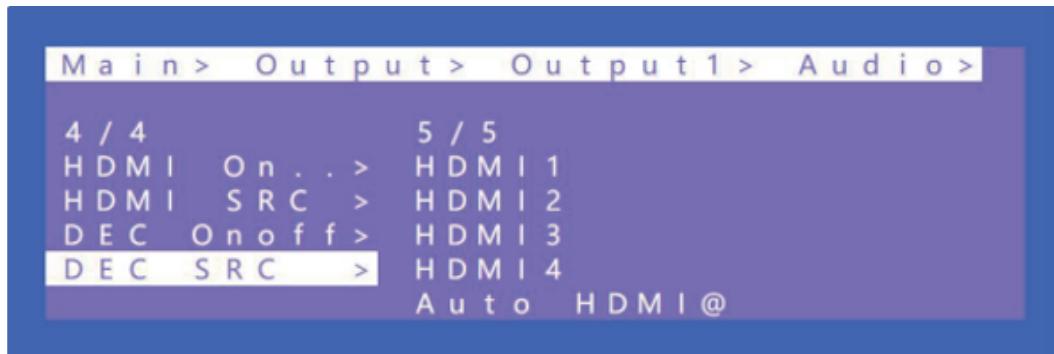
```
Main >   Output >   Output 1 >   Audio >

4 / 4                 5 / 5
H D M I    O n . . >   H D M I 1
H D M I    S R C   >   H D M I 2
D E C   O n o f f >   H D M I 3
D E C   S R C      >   H D M I 4
                      A u t o   H D M I @
```

Operation:

① Select "Output" in the main menu and press "ENTER"

② Press "UP" or "DOWN" to select " Output 1~4, all"

③ Click "ENTER" to enter the next sub-menu

④ Press "UP" or "DOWN" to select "Audio" and enter the next sub-menu

⑤ Select "DEC SRC" to select the desired audio input

7.5. Power

Power is used to turn off HDMI output of 5V. It is different from "Onoff" as there is a blue screen displayed on TV while selecting "off" in "Onoff". Image will completely turn off after selecting "Off" in "Power". It is on by default.
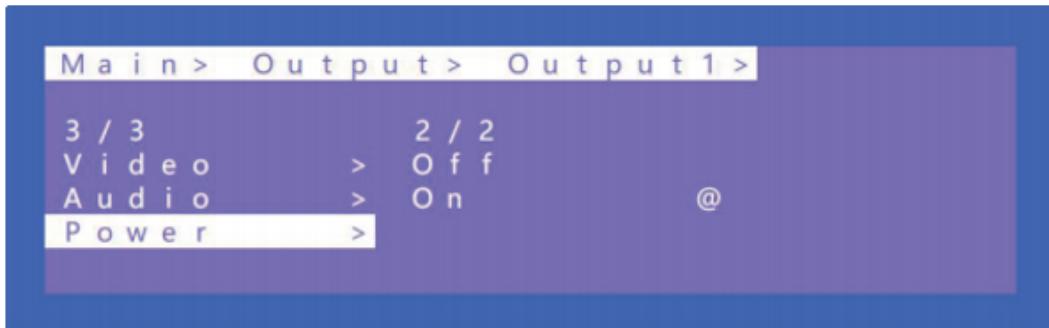

```
Main>   Output>   Output1>

3 / 3                  2 / 2
Video          >   Off
Audio          >   On                @
Power          >
```

Operation:

① Select "Output" in the main menu and press "ENTER"

② Press "UP" or "DOWN" to select " Output 1~4, all"

③ Click "ENTER" to enter the next sub-menu

④ Press "UP" or "DOWN" to select "Power" and enter the next sub-menu

⑤ Select "On" or "Off" to complete the operation

7.6 Input

There are there functions options in Input interface, which are Video, Audio and EDID.

Video is used to provide the switch channel, built-in Pattern switch and selections. Audio is used to set the delay. EDID supports built-in, copy, user, and temp.


```
Main>

2 / 5                  1 / 5
Output      >   Input1      >
Input       >   Input2      >
Preset      >   Input3      >
Config      >   Input4      >
Info        >   All         >
```

```
Main >   Input >

1 / 5                 1 / 3
Input 1      >    Video         >
Input 2      >    Audio         >
Input 3      >    EDID          >
Input 4      >
All          >
```
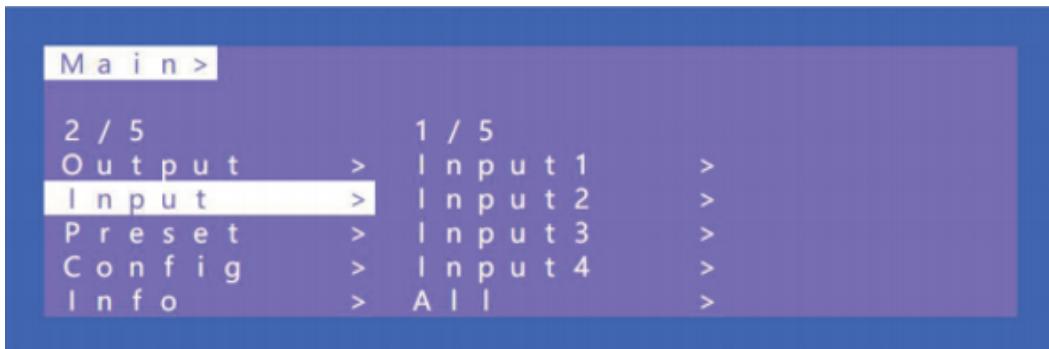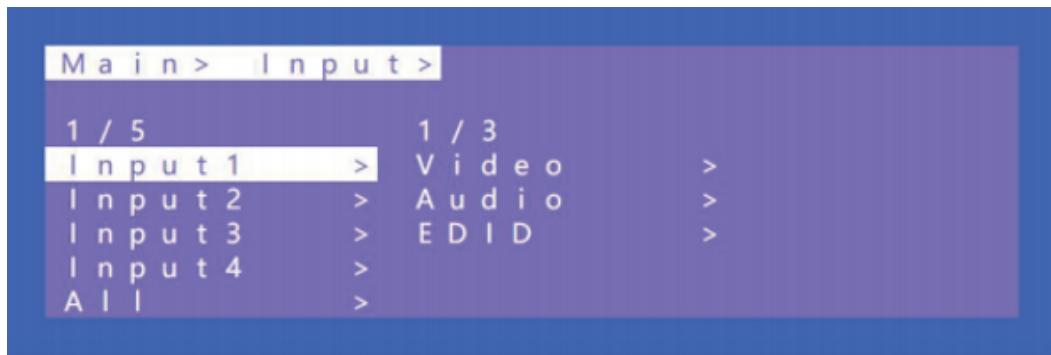
7.6.1 Video

Video can implement the on-off of input channel.All the outputs correspond to the input will have no image and audio when this input is set to "Off". Pattern provides built-in pattern, the selected built-in pattern will replace the input source image.

```
Main >   Input >   Input 1 >

1 / 3                 1 / 2
Video        >    Onoff         >
Audio        >    Pattern       >
EDID         >
```

Operation:

① Select "Input" in the main menu and press "ENTER"

② Press "UP" or "DOWN" to select " Input 1~4, all"

③ Click "ENTER" to enter the next sub-menu

④ Press "UP" or "DOWN" to select "Video" and enter the next sub-menu

⑤ Select "On" or "Off" to turn on/off the input video

7.6.2 Audio

Audio delay setting range (0~50, auto), the default is auto.
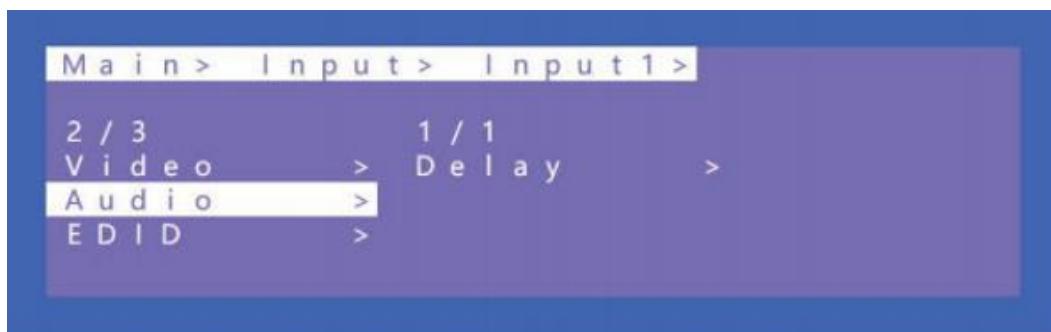
```
Main >   Input >   Input 1 >

2 / 3                 1 / 1
Video        >    Delay         >
Audio        >
EDID         >
```

Operation:

① Select "Input" in the main menu and press "ENTER"

② Press "UP" or "DOWN" to select " Input 1~4, all"

③ Click "ENTER" to enter the next sub-menu

④ Press "UP" or "DOWN" to select "Audio" and enter the next sub-menu

⑤ Select "0~50" in "Delay"to complete the operation

7.6.3 EDID

There are 4 options including built-in EDID, User EDID, Copy HDMI EDID, temp, each input EDID can be set. The default is default1. When the EDID is copied, the EDID of the last TV will be temporarily stored in the case of continuous power supply after access. Connect a new TV EDID will update.

The default Modify is on. After copying the TV EDID, the audio parameter is automatically changed to LPCM2.0. If closed; The copied EDID does not modify the audio parameters.

Default1	4K60 444-LPCM: 2.0-192Khz	Default2	4K60 420-LPCM: 2.0-192Khz
Default3	4K30 444-LPCM: 2.0-192Khz	Default4	1080P120 444-LPCM: 2.0-192Khz

Switching the Default1 to input1 as shown in the following example:

Operations:

① Select "EDID" in the main menu and press "ENTER"

② Press "UP" or "DOWN" to select " Input 1"(the fifth option indicates that select all input)

③ Click "ENTER" to enter the next sub-menu

④ Press "Default1" to complete the operation

⑤ The selected EDID will show some of its information (resolution, audio format and audio channel)

```
Main>    Input>    Input1>

3 / 3                1 / 2
Video          >    Copy         >
Audio          >    Modify  . . >
EDID           >
```

```
Main>   Input>    Input1>   EDID>

1 / 2                    1 1 / 1 3
Copy               >    User 3
Modify    .. >     User 4
                        Output 1
                        Output 2
                        Output 3      @
```

```
Main>    Input>    Input 1>    EDID>

2 / 2                    2 / 2
Copy                >    Off
Modify    au >     On              @
```
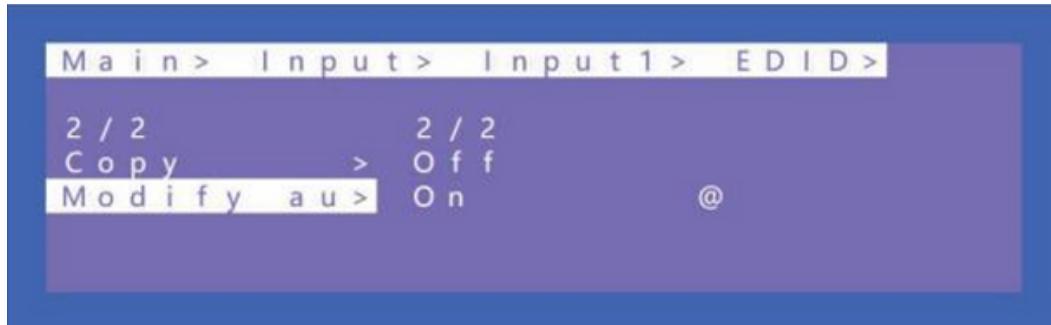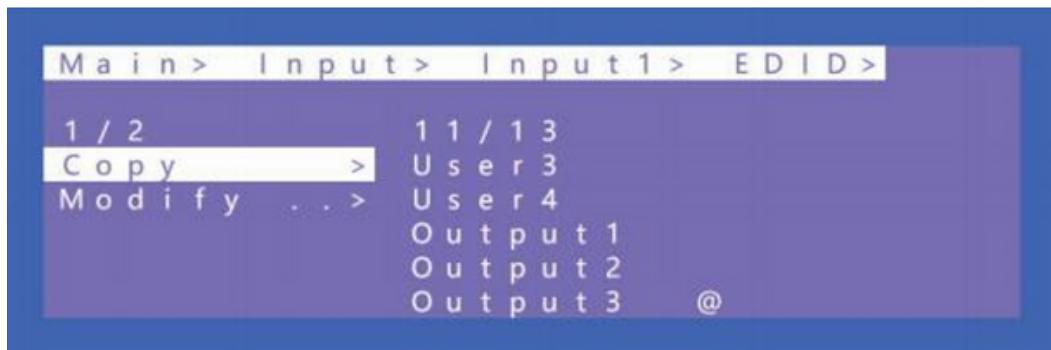
7.7 Preset

Preset can save the current video, audio, EDID and system settings, supports 8 different scenes. Preset can be modified and called using WEB, commands and panel. The default preset is consistent with its factory settings. There are 4 options as follows:

Clear: Remove the selected preset.

Save: Stores the current preset (can be covered). Call: Activates the currently selected preset.

Demo: Plays the demo according to the scenes sequence.

```
Main>

3 / 5                    1 / 4
Output        >    Clear          >
Input          >    Save           >
Preset         >    Call            >
Config        >    Demo          >
Info            >
```
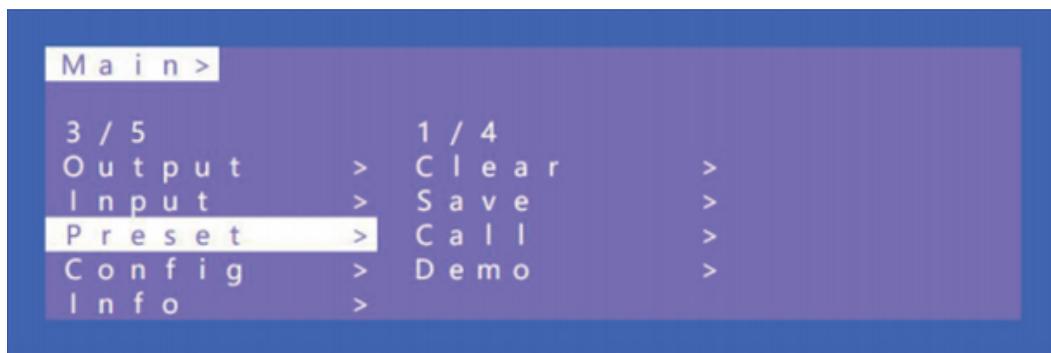
Operations:

① Select "Preset" in the main menu and short press "ENTER" to enter the preset interface. Call indicates calling preset, Save indicates saving preset, Clean indicates cleaning preset.

② Save preset: select "Save" in Preset and select "Mode" or "Scene" to save in "Scene" or "P2P"

③ Call preset: Select "Call" in Preset, the select a saved preset to complete the operation. Current

scene is the saved preset scene

④ Clear preset: Select "Clear" in Preset, select a saved scene to complete the operation. The saved preset scenes are restored to their default values.

For example:

Save: Preset+Save+Scene+Scene1 Call: Preset+Call+Scene+Preset1

Clean: Preset+Clean+Scene+Preset1

Preset: Preset + Clear + scene +Preset1

```
Main>   Preset>

2 / 4              2 / 2
Clear      >   Mode        >
Save       >   Scene       >
Call       >
Demo       >
```

```
Main>   Preset>   Clear>

2 / 2              1 / 9
Mode       >   Scene 1      @
Scene      >   Scene 2
               Scene 3
               Scene 4
               Scene 5
```

```
Main>   Preset>   Clear>

1 / 2              1 / 26
Mode       >   S - P 2 P      @
Scene      >   S - Input 1
               S - Input 2
               S - Input 3
               S - Input 4
```
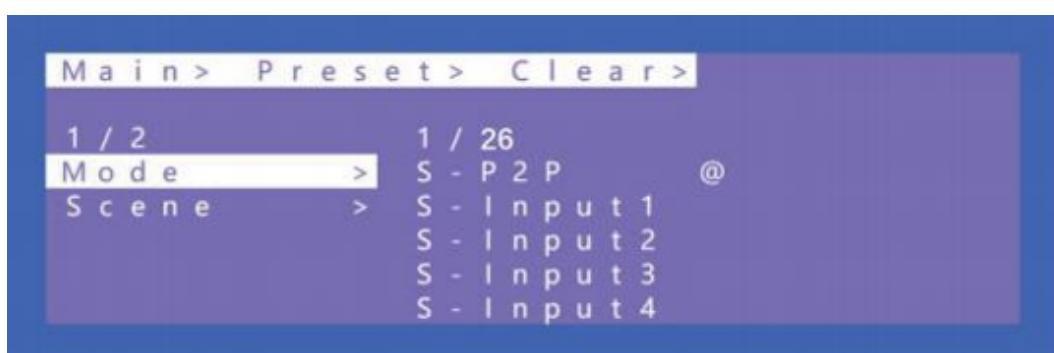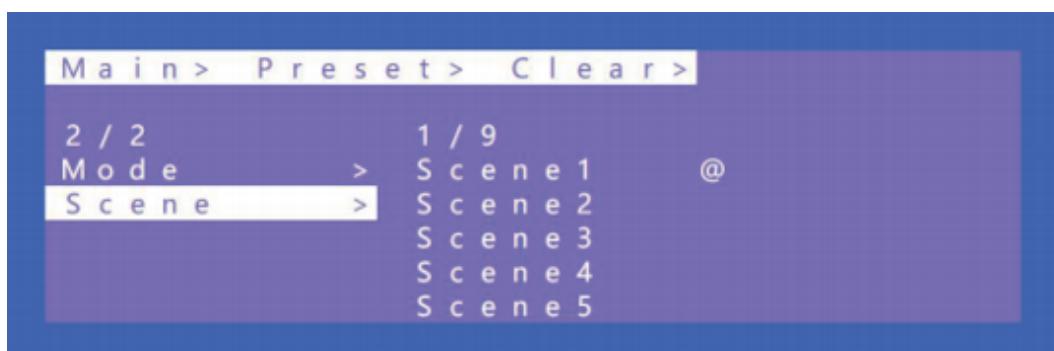
Demo operation:

Timer can set the rotation time, the default is "Endless", the minimum time is 3 seconds.

Select indicates whether Select whether to perform the scenario in rotation. If this parameter is set to yes, the scenario will be played. If this parameter is not set to yes, the scenario will be skipped.

```
Main >    Preset >    Demo >

1 / 2                10 / 10
Timer        >    1   M
Select       >    1   M   30 S
                  2   M
                  3   M
                  Endless      @
```

Demo

```
Main >    Preset >    Demo >

2 / 2                1 / 27
Timer        >    S - P 2 P        >
Select       >    S - Input 1      >
                  S - Input 2      >
                  S - Input 3      >
                  S - Input 4      >
```
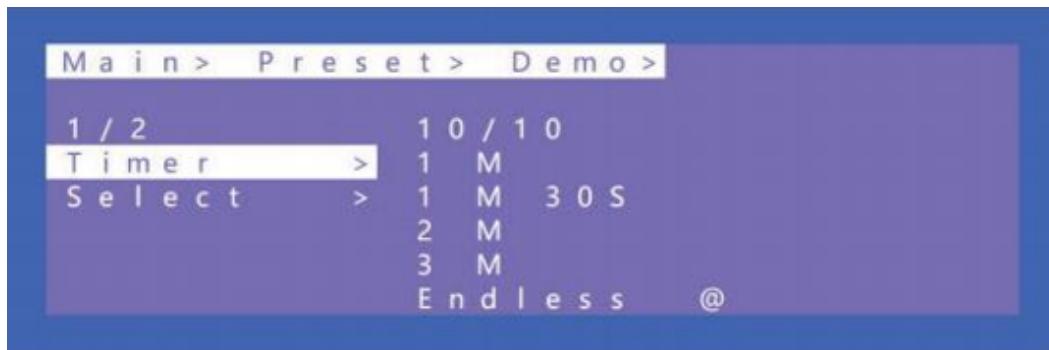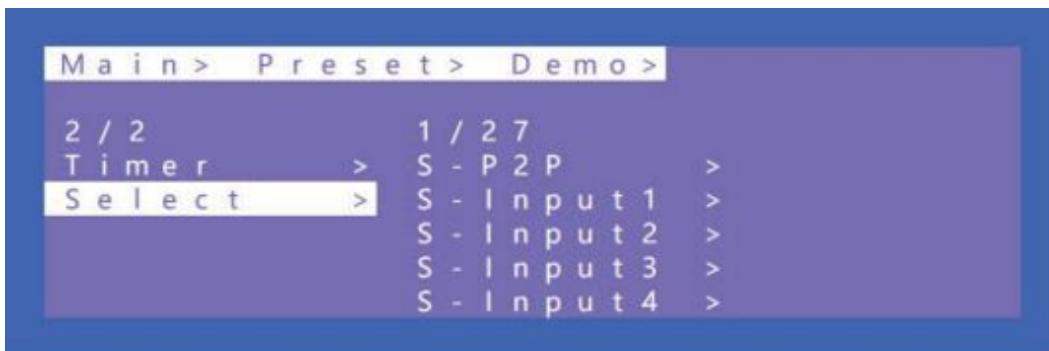
7.8 Config

Config can set network, RS232, LCD, OSD, MENU, user EDID, system.

Gray sections cannot be selected, a higher level is required to enable the function. The levels are read-only and read-write.

```
Main >

4 / 5                1 / 7
Output       >    Network      >
Input        >    RS - 232     >
Preset       >    LCD          >
Config       >    OSD          >
Info         >    Menu         >
```

7.8.1 Network

Network can set DHCP, IP, Mask, Gateway, Port and Mac. The Mac address cannot be changed.

The default IP address is **192. 168. 1.200**

```
Main>   Config>   Network>

1 / 6                1 / 2
DHCP           >   No                  @
IP             >   Yes
MASK           >
Gateway        >
Port           >
```
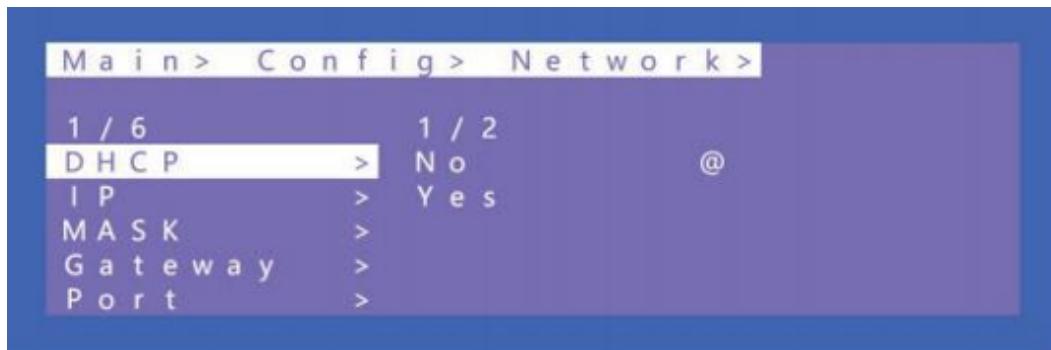
DHCP operation:

① Select "Config" in the main menu and press "ENTER"

② Press "UP" or "DOWN" to select " network "

③ Click "ENTER" to enter the next sub-menu

④ Press "UP" or "DOWN" to select baud rate "DHCP"

⑤ Press "UP" or "DOWN" to select "No" or "Yes" to complete the operation.

```
Main>   Config>   Network>

2 / 6                1 / 4
DHCP           >   Part1          >
IP             >   Part2          >
MASK           >   Part3          >
Gateway        >   Part4          >
Port           >
```
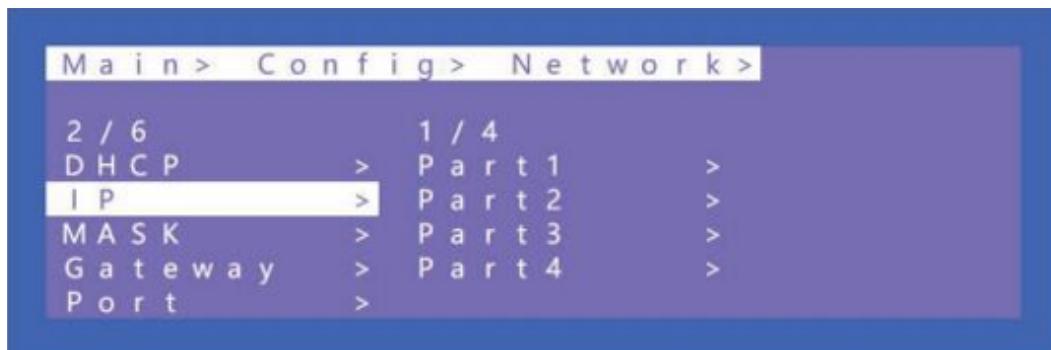
IP/MASK/gateway Operation:

① Select "Config" in the main menu and press "ENTER"

② Press "UP" or "DOWN" to select " network "

③ Click "ENTER" to enter the next sub-menu

④ Press "UP" or "DOWN" to select baud rate "IP/MASK/gateway"

⑤ Press "UP" or "DOWN" to select "0~255" to complete the operation.

TCP/UDP protocol, default port: TCP5000, UDP 5001

```
Main>   Config>   Network>   Port>

1 / 2                5000 / 65534
TCP            >   5000              @
UDP            >   5001
                  5002
                  5003
                  5004
```

```
. . . > >   N e t w o r k >   P o r t >   T C P >

5 0 0 0 / 6 5 5 3 4
5 0 0 0              @   D H C P : O f f
5 0 0 1                  I P     : 1 9 2 . 1 6 8 .     0 .   5 7
5 0 0 2                  M A S K : 2 5 5 . 2 5 5 . 2 5 5 .   0
5 0 0 3                  G W     : 1 9 2 . 1 6 8 .     0 .   1
5 0 0 4                  M A C   : 4 6 5 8 - 4 E 9 E - 0 A 6 B
```
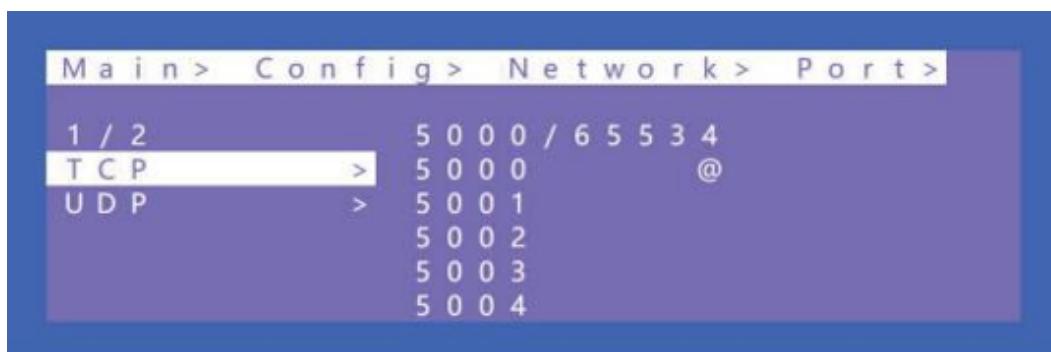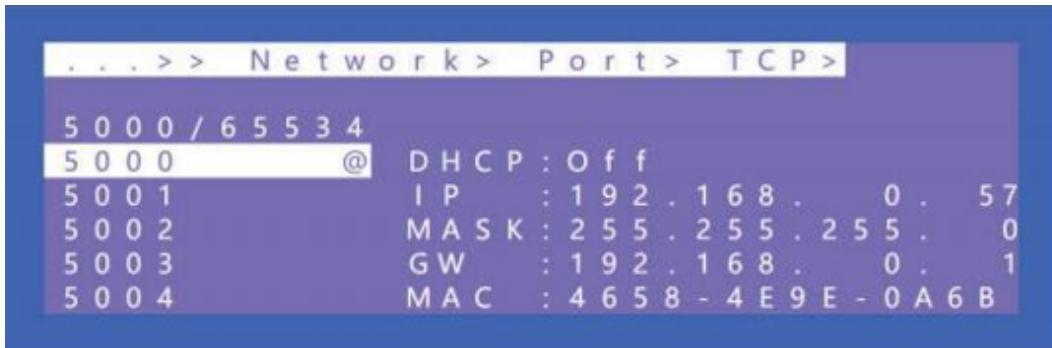
Operation of TCP/UDP port number change

① Select "Config" in the main menu and press "ENTER"

② Press "UP" or "DOWN" to select " network"

③ Click "ENTER" to enter the next sub-menu

④ Press "UP" or "DOWN" to select baud rate "Port" to enter the next sub-menu

⑤ Select "UDP" or "TCP"

⑥ Press "UP" or "DOWN" to select " 1~65534" to complete the operation.

7.8.2 RS-232

 Other parameters can be changed only when the read/write permission is enabled by instruction, which is not enabled by default.

```
M a i n >   C o n f i g >

2 / 7                 1 / 4
N e t w o r k    >    B a u d          >
R S - 2 3 2      >    D a t a          >
L C D            >    S t o p          >
O S D            >    P a r i t y      >
M e n u          >
```

```
M a i n >   C o n f i g >   R S - 2 3 2 >

1 / 4                 6 / 6
B a u d          >    9 6 0 0
D a t a          >    1 9 2 0 0
S t o p          >    3 8 4 0 0
P a r i t y      >    5 7 6 0 0
                      1 1 5 2 0 0      @
```
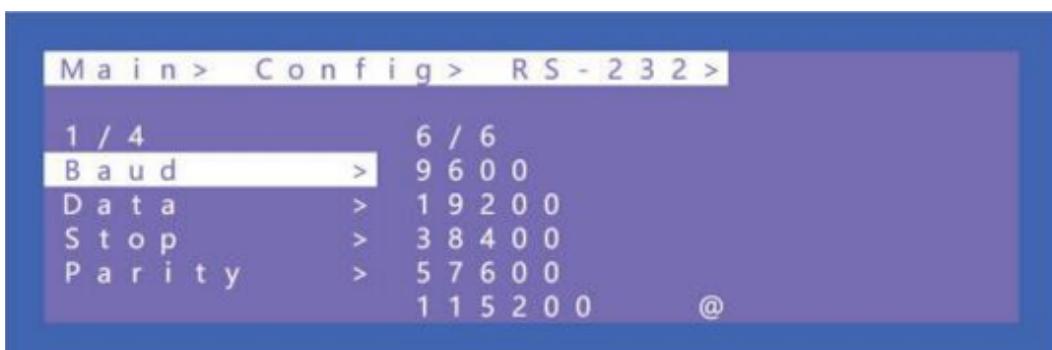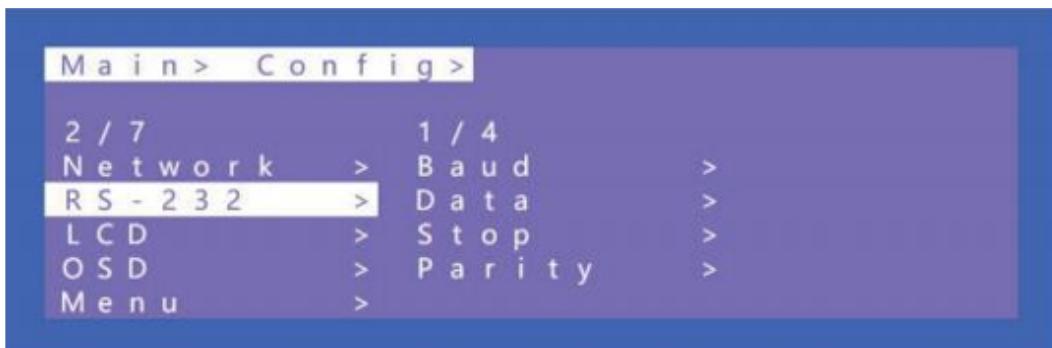
Operation:

① Select "Config" in the main menu and press "ENTER"

② Press "UP" or "DOWN" to select " RS232 "

③ Click "ENTER" to enter the next sub-menu

④ Press "UP" or "DOWN" to select baud rate "Baud" to enter the next sub-menu

⑤ Select "4800~115200" and press"ENTER" to complete the operation

7.8.3 LCD

Bright can adjust the brightness of the LCD screen, and Timer can set the backlight time. The default backlight level is 8 and the time is 30 seconds.

Bright 0 to 8 indicates the backlight level, and 0 indicates off.

Timer can be set to 3 seconds ~ Endless.
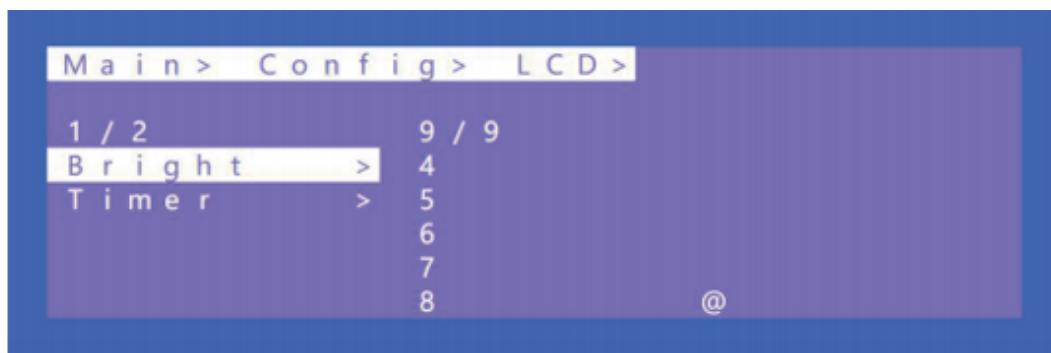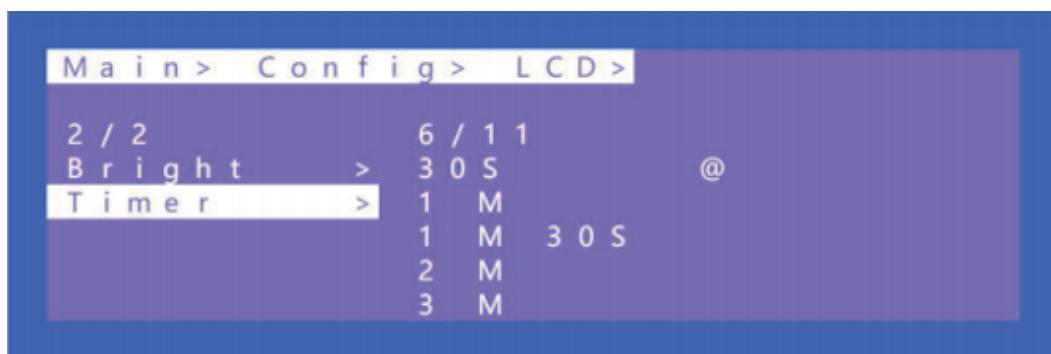
Operation:

① Select "Config" in the main menu and press "ENTER"

② Press "UP" or "DOWN" to select " Bright"

③ Click "ENTER" to enter the next sub-menu

④ Press "UP" or "DOWN" to select "0~8"

⑤ Click "ENTER" to compete the backlight brightness

7.8.4 OSD

There are 4 options in OSD: User, Time, Menu, Info.

User indicates the output coordinate time of OSD.

Time indicates the running time after the device is power on.

Menu indicates that the LCD is mapped to the TV.

INFO indicates the displayed time of audio and video information.

When the parameter is set to 0 seconds, OSD display is turned off. By default, User and time are endless, menu and INFO are 30 seconds.

Operation:

① Select "Config" in the main menu and press "ENTER"

② Press "UP" or "DOWN" to select " OSD "

③ Click "ENTER" to enter the next sub-menu

④ Press "UP" or "DOWN" to select "User" and press "ENTER"

⑤ Press "UP" or "DOWN" to select "Time" and check the OSD display in the upper left corner of the TV

7.8.5 Menu

Timer indicates the time of menu returns to the channel.

Select Run indicates whether the confirm button of the last sub-menu is enabled.

If it is set to disable, you need to press "ENTER" . If it is set to enable, you do not need to press "ENTER".

```
Main>  Config>

5 / 7                    1 / 2
Network       >    Timer          >
RS - 232      >    SelectRun>
LCD           >
OSD           >
Menu          >
```

```
Main>  Config>  Menu>

1 / 2                    10 / 10
Timer         >    1   M
SelectRun>         1   M   30 S
                   2   M
                   3   M
                   Endless      @
```

Operation:

① Select "Config" in the main menu and press "ENTER"

② Press "UP" or "DOWN" to select " Menu "

③ Click "ENTER" to enter the next sub-menu

④ Press "UP" or "DOWN" to select "Timer" and press "ENTER"

⑤ Press "UP" or "DOWN" to select the return time
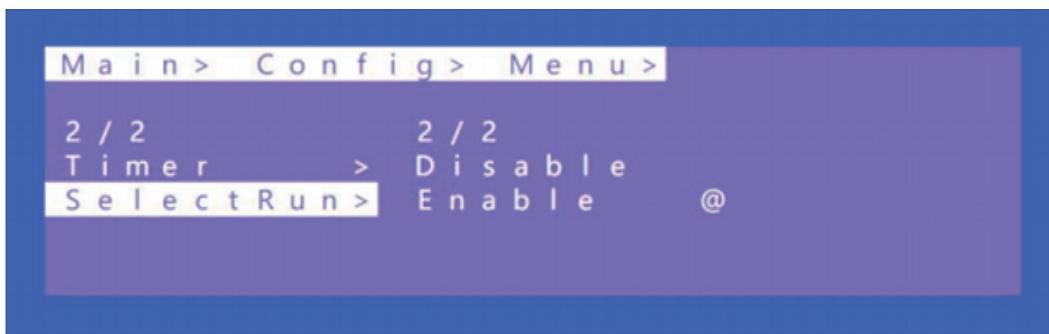
```
Main>  Config>  Menu>

2 / 2                    2 / 2
Timer         >    Disable
SelectRun>         Enable       @
```

Operation:

① Select "Config" in the main menu and press "ENTER"

② Press "UP" or "DOWN" to select " Menu "

③ Click "ENTER" to enter the next sub-menu

④ Press "UP" or "DOWN" to select "Select Run" and press "ENTER"

⑤ Press "UP" or "DOWN" to select "Disable" or "Enable"

7.8.6 User EDID

User EDID can store the EDID of the output display device of the connection matrix.

```
Main>   Config>

6 / 7                   1 / 5
L C D              >    U s e r 1       >
O S D              >    U s e r 2       >
M e n u            >    U s e r 3       >
U s e r   E D I D >    U s e r 4       >
S y s t e m        >    A l l          >
```
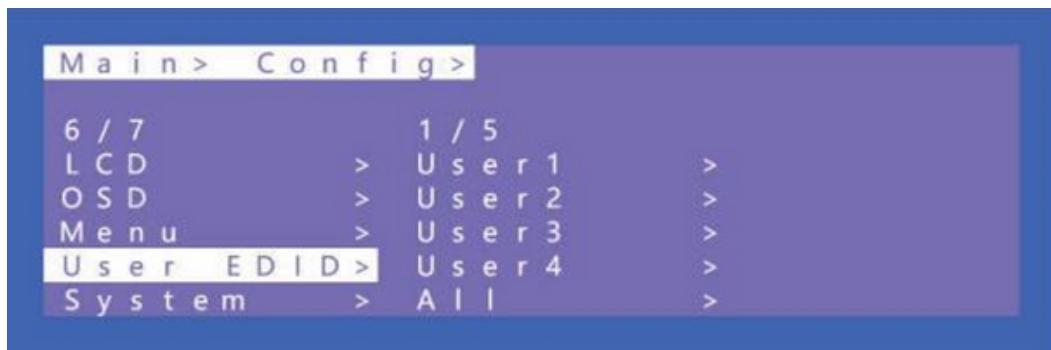
Operation:

① Select "Config" in the main menu and press "ENTER"

② Press "UP" or "DOWN" to select " User EDID "

③ Click "ENTER" to enter the next sub-menu

④ Press "UP" or "DOWN" to select "User1" and press "ENTER"

⑤ Select "Output1" and press "ENTER" to complete the operation

7.8.7 System

System Setting includes reboot, Power, and Factory. Reboot indicates device restart, power indicates device sleep, and factory indicates factory data reset.
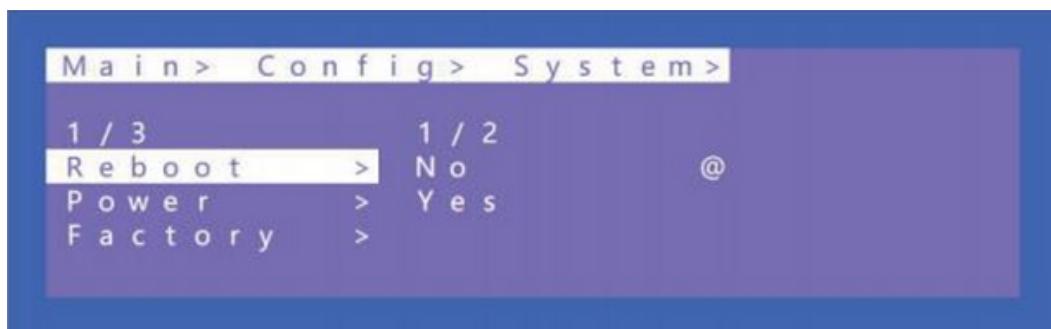
```
Main>   Config>

7 / 7                   1 / 3
L C D              >    R e b o o t     >
O S D              >    P o w e r       >
M e n u            >    F a c t o r y   >
U s e r   E D I D >
S y s t e m        >
```

Reboot:

```
Main>   Config>   System>

1 / 3                   1 / 2
R e b o o t        >    N o          @
P o w e r          >    Y e s
F a c t o r y      >
```

Operation:

① Select "Config" in the main menu and press "ENTER"

② Press "UP" or "DOWN" to select " System "

③ Click "ENTER" to enter the next sub-menu

④ Press "UP" or "DOWN" to select "Reboot" and press "ENTER"

⑤ Select "Yes" to complete the reboot.

Timed Off:

Timed Off indicates timed standby, Timed On indicates timed wake up, and Auto Sleep indicates automatic sleep.
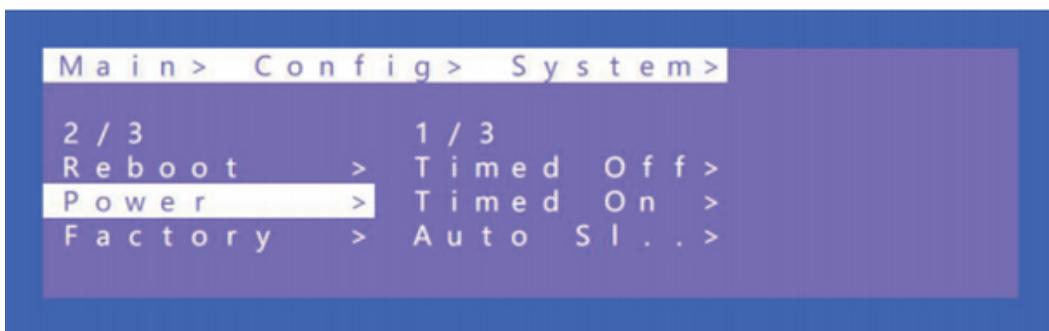
Operation:

① Select "Config" in the main menu and press "ENTER"

② Press "UP" or "DOWN" to select " System "

③ Click "ENTER" to enter the next sub-menu

④ Press "UP" or "DOWN" to select "Power" and press "ENTER"

⑤ Select "Timed off" and press "ENTER" to enter the next sub-menu

⑥ Press "UP" or "DOWN" to set the scheduled standby time

Factory:

Simple: partially restores factory settings

User: restores all factory settings
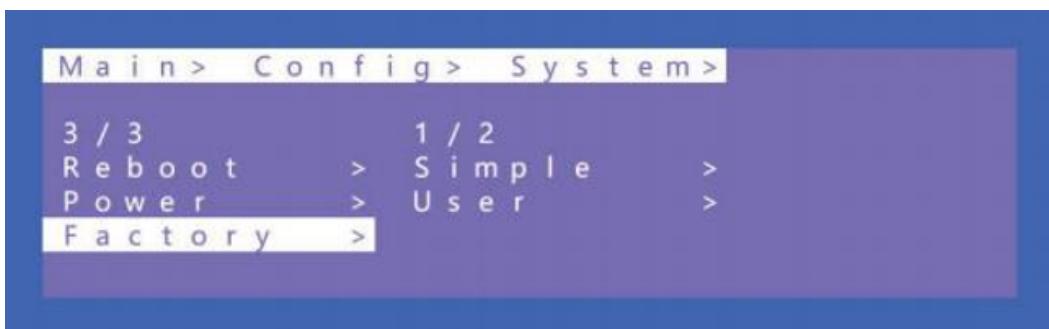
Operation:

① Select "Config" in the main menu and press "ENTER"

② Press "UP" or "DOWN" to select " System "

③ Click "ENTER" to enter the next sub-menu

④ Press "UP" or "DOWN" to select "Factory" and press "ENTER"

⑤ Select "Simple" and press "ENTER" to enter the next sub-menu

⑥ Press "UP" or "DOWN" to select "Yes" to restore factory setting.

7.9 Info

Query device information, including input, output, system, and log. The information can only be queried and cannot be set or changed.

Input: resolution information of the signal sources input

Output: EDID information of the TV of outputs.

System: System information includes Web, version and company info.

Log: Matrix log
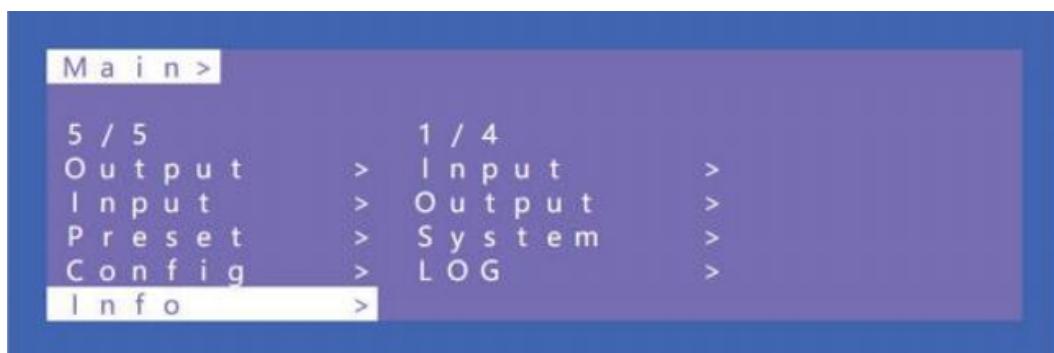
Operation:

① Select "INFO" in the main menu and press "ENTER"

② Press "UP" or "DOWN" to select " System "

③ Click "ENTER" to enter the next sub-menu to query the relevant device information.

8. Remote Control

⏻ : Standby or power on

🔇 : Mute button

⏮ : Return to upper level

⏭ : Move to next level

⏹ : Picture off

🟥🟦 : Page turn by 100 of the last sub-menu

wm : Page turn by 10 of the last sub-menu

🏠 : Menu

◂ : All output

▲ : Up

◀ : Menu

OK : OK

▶ : Enter

▼ : Down

↻ : Return or exit

Back : Menu

⊞ : When selecting Output, means Out1 - Out4

When selecting Input，means In1 - In4

⊟ : Preset

0 : (N/A)

⤒ : Point to Point

9. Audio Extraction

9.1 HDMI Audio

Default HDMI audio output support uncompressed audio PCM, LPCM2.0 digital audio DTS/Dolby5.1 channel. The maximum sampling rate support 192KHZ, and it supports audio format and channel are forced into LCPM2.0.

Note: To support digital audio, enable modify to off. Otherwise Copy EDID will become forced 2.0 audio.

HDMI Source:

① ENC1~4 indicates that HDMI outputs select the embedding audio

② HDMI1~4 indicates that HDMI outputs select other audio source

③ Auto HDMI indicates that the input signal source is switched with the matrix, but the audio state is not switched

④ Auto ENC indicates the HDMI sound will be overwritten and replaced with the corresponding embedded audio
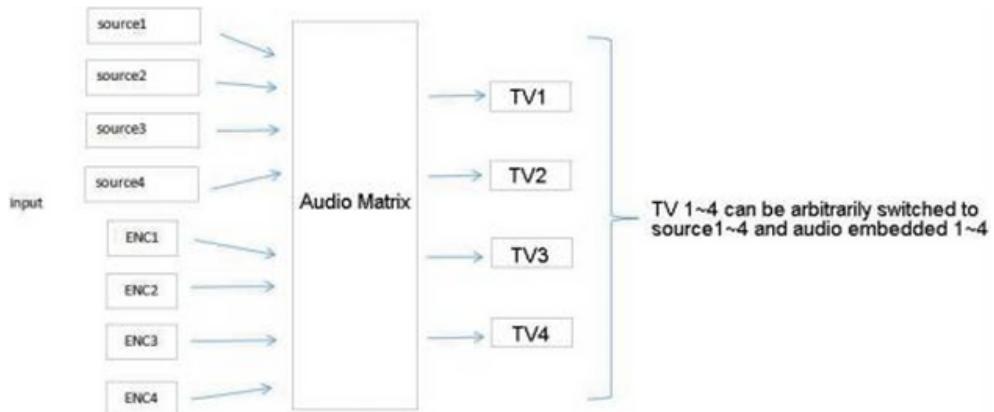
9.2 Audio Extraction

Audio extraction has analog audio extraction and coaxial digital audio extraction (as shown in the figure below). Analog audio extraction is connected to the speakers, coaxial digital audio extraction is connected to amplifier.

*1: Corresponding to the front end, the current channel can only select one audio each time.

*2: The EDID sampling rate is forced to be 48Khz by default. Other audio sampling rates can be supported only when the forced modification function is disabled.
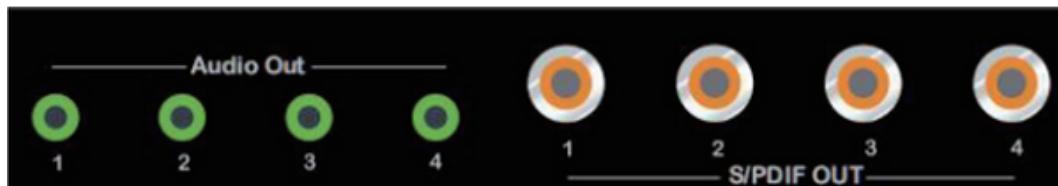
1) Analog Audio

1. HDMI 1~4 indicates that HDMI output audio select audio from other input signal sources

2. Auto HDMI indicates that the input signal source is switched with the matrix, but the audio state is not switched

2) Coaxial audio

1. HDMI 1~4 indicates that HDMI output audio select audio from other input signal sources

2. Auto HDMI indicates that the input signal source is switched with the matrix, but the audio state is not switched

3. Coaxial audio sampling rate up to 96Khz.

10. RS232 Control

10.1 Open CommUart Assistant

10.2 Comport Setting:

Choose correct COM port that connect to PC in parameter configuration area.

Serial Port Default Settings	
Baud Rate	115200 bps(Default)
Parity Bits	None
Data Bits	8
Stop Bits	1

10.3 Enter Port Command in Send Options:

Choose correct COM port that connect to PC in parameter configuration area.
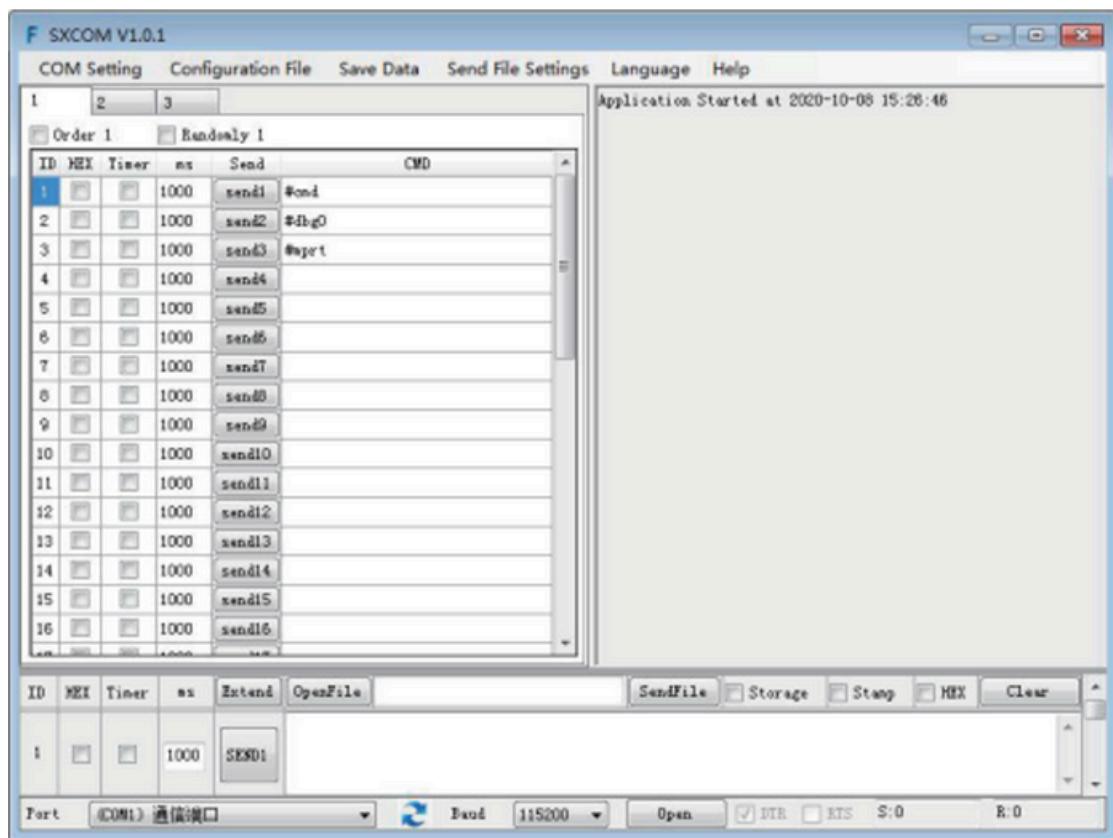
10.4 Command List

1) All commands start with "#"

2) "_" the underline cannot omit.

3) Command head, Parameter and target need to add one "SPACE" .

The following table is only an example. Please refer to the list of instructions.

Type	Format	Value	Regulation
Command head	#cmd	without	
Explain	Can be used to search command,after receiving command, the system will feedback all open command format fields		
Example1	#cmd		
	Search all open command		

11. Scene Instructions

11.1 Video Wall Mode

Remarks: Parts of the scene require switching TV ports. For Example: Out2 and out3 need to be swapped when in mode W-2x1.
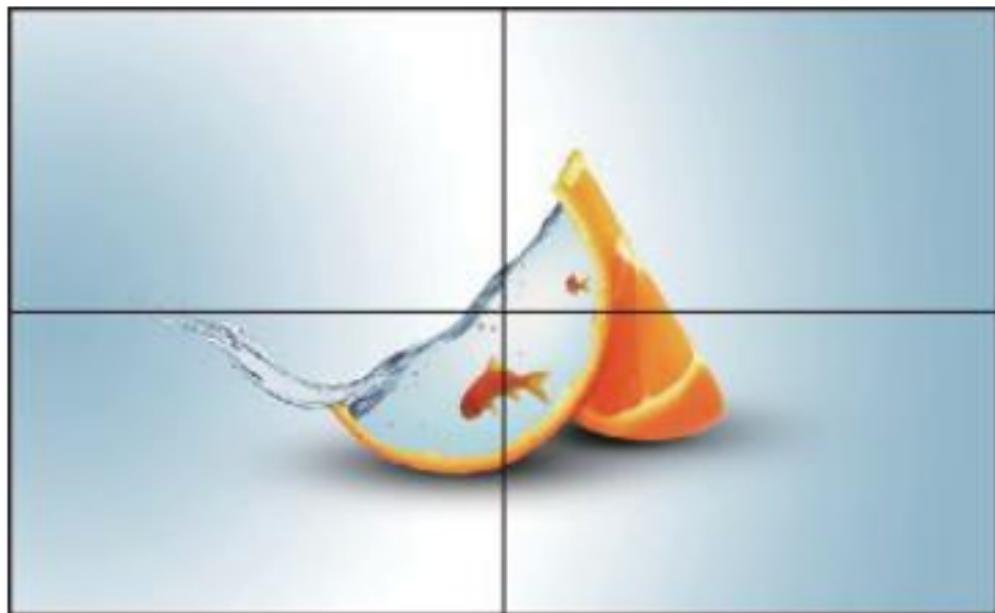
W-2x2:   2 Vertical x 2 Horizontal

W-1x2:   1 Vertical x 2 Horizontal
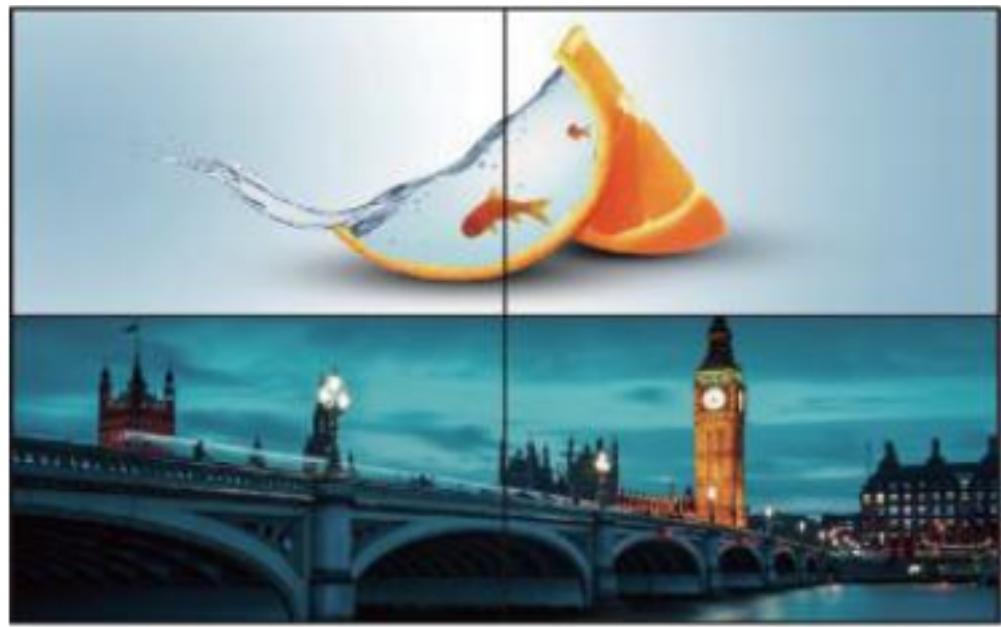
W-1x2 1x2:   1 Vertical x 2 Horizontal
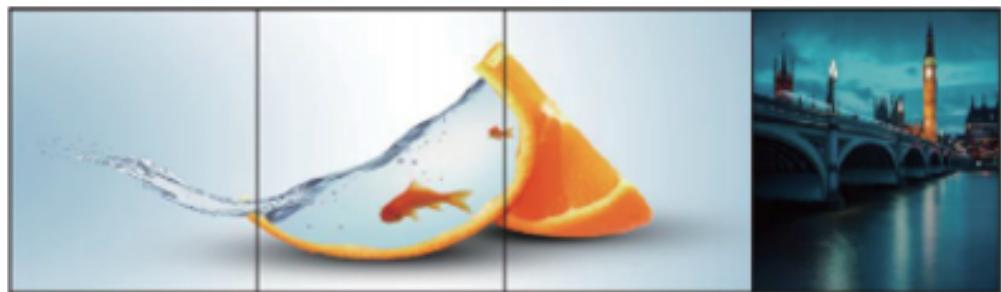
W-1x3: 1 Vertical x 3 Horizontal
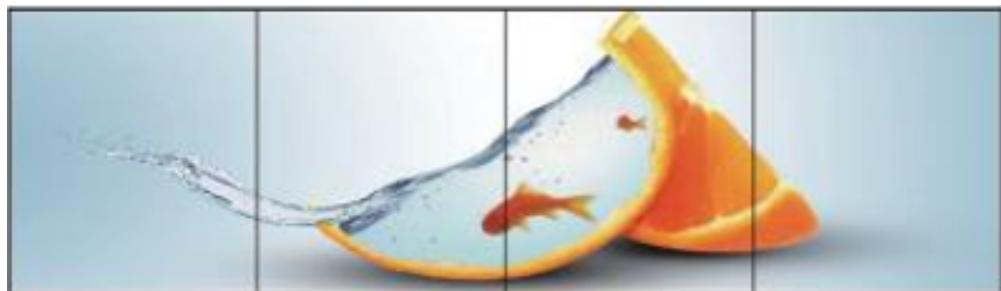
W-1x4: 1 Vertical x 4 Horizontal

W-2x1: 2 Vertical x 1 Horizontal
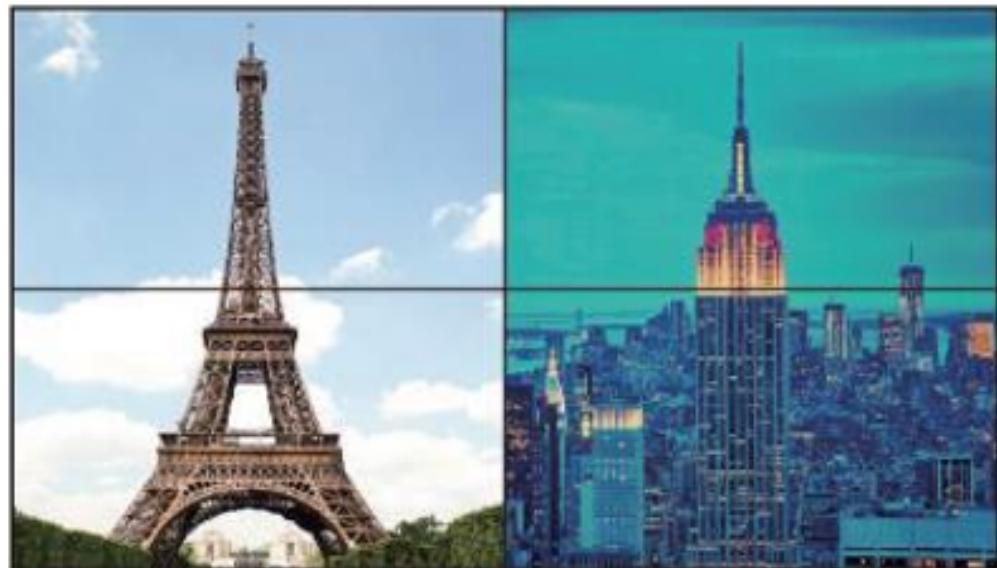
W-2x1 W-2x1: 2 Vertical x 1 Horizontal
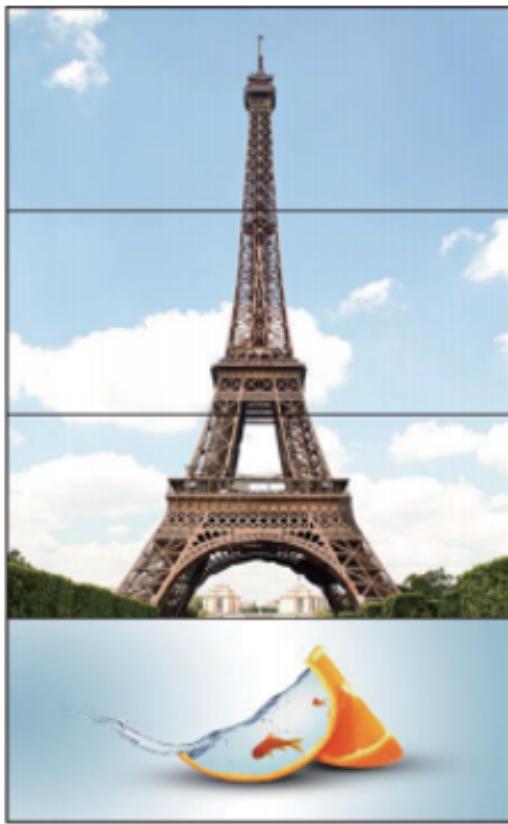
W-3x1: 3 Vertical x 1 Horizontal
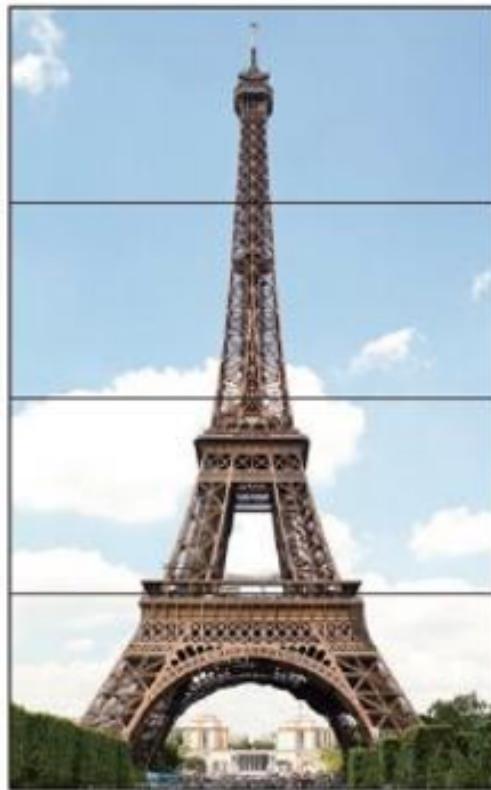
W-4x1: 4 Vertical x 1 horizontal

11.2 Multi-Viewer Mode

Remarks: Parts of the scene require switching TV ports. For Example: Out2 and out3 need to be swapped when in mode W-2x1.

M-2x2

M-3x1-R

M-3x1-L

M-3x1-U
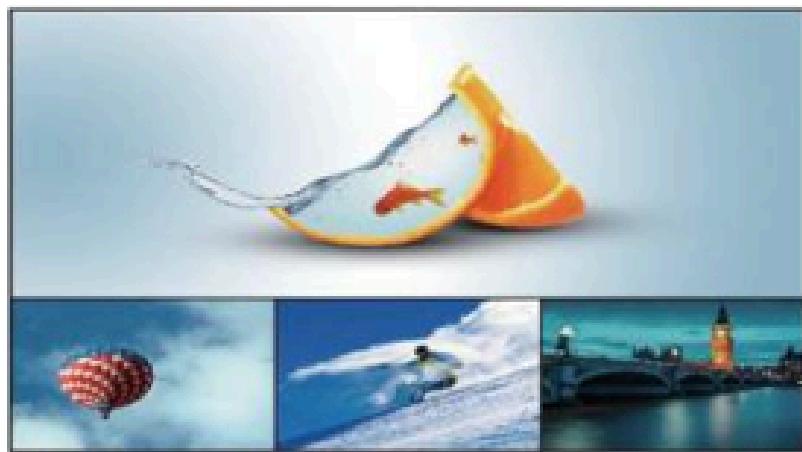
M-3x1-D

M-1+234 A

M-1+2 1+3 1+4 A

M-1+2 3+4 A
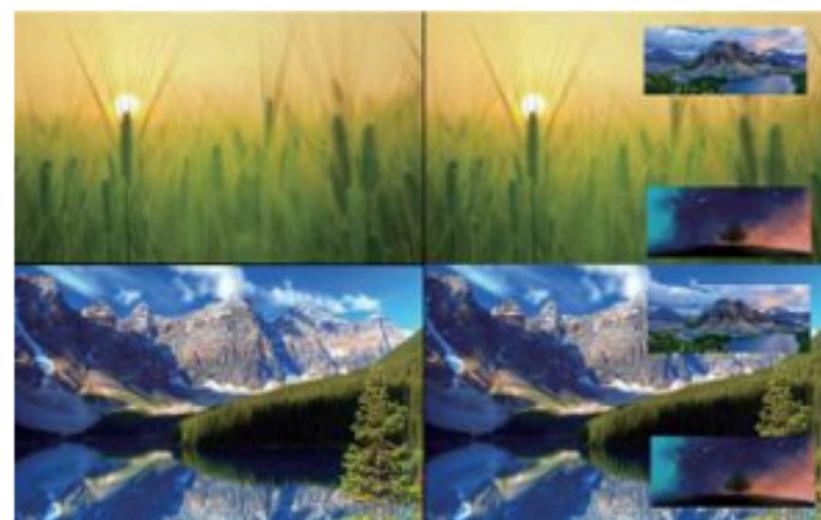
M-1+34 2+34 A

M-POP A
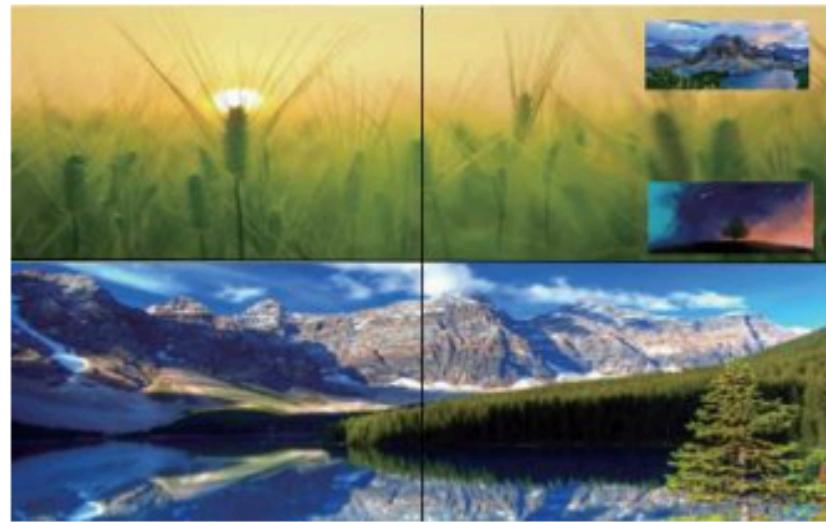
M-2x1+34 A
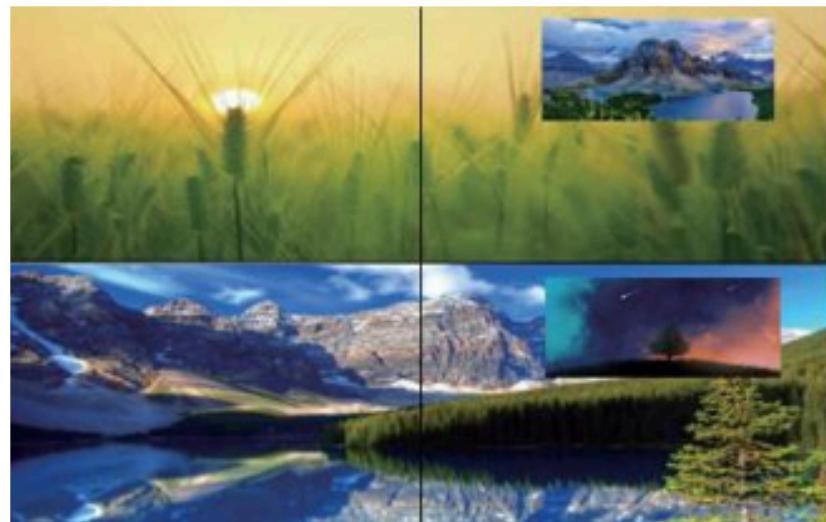
M-2x1+3 2x1+4 A

11.3 Image Cropping and TV Coordinate Change

Input starting point：CROP X0(0)，CROP Y (0)，

Input ending point：CROP X1(3000)，CROP Y0(3000),

Input scaling starting point：ZOOM X0(0)，ZOOM Y0(0)，

Input scaling ending point：ZOOM X1(6000)，ZOOM Y0(6000).

Before cropping   After cropping

Changing coordinates only supports operation panel;

Default wall coordinates output 1 (0,0) output 2 (1,0) output 3 (0, 1) output 4 (1, 1); Output 1 number of wall width=2 and height=2. Other outputs must be auto.

If output 1 and output TV exchange with each other;

Output 1 (1,0) output 2 (0,0) output 3 (0, 1) output 4 (1, 1);

Output 2 Number of wall width=2 and height=2. Other outputs must be auto.

11.4 Cascading
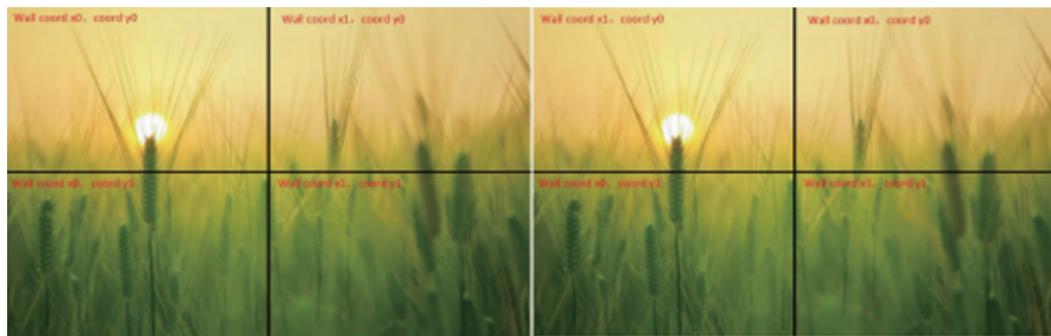
Default coordinates are on the right, changed coordinates are on the left

Cascading wall: Multiple matrices need to be used, and then fill in the coordinates according to the sequence of the wall. The height and width of the wall should be set for the first output, and all other outputs and matrix outputs should be set to Auto, for example:

wall(x0, y0) height(3) wight(3)	wall(x1, y0) height(auto) wight(auto)	wall(x2, y0) height(auto) wight(auto)
wall(x0, y1) height(auto) wight(auto)	wall(x1, y1) height(auto) wight(auto)	wall(x2, y1) height(auto) wight(auto)
wall(x0, y2) height(auto) wight(auto)	wall(x1, y2) height(auto) wight(auto)	wall(x2, y2) height(auto) wight(auto)

Changing coordinates only supports operation panel;

Default wall coordinates output 1 (0,0) output 2 (1,0) output 3 (0, 1) output 4 (1, 1); Output 1 number of wall width=2 and height=2. Other outputs must be auto.

If output 1 and output TV exchange with each other;

Output 1 (1,0) output 2 (0,0) output 3 (0, 1) output 4 (1, 1);

Output 2 Number of wall width=2 and height=2. Other outputs must be auto.

12. Web Control

12.1 Change IP Address of PC

Before configuring the device through the website, it is necessary to configure the IP address of the computer configured with the device (mainly to ensure that the computer and the device are set in the same network segment).

1). Open the network control center and set the computer's IP address

2). Choose to use Static IP, with the IP address set to 196. 168. 1.x (x ranges from 0 to 254, but cannot be consistent with the device's IP address)

3). Subnet mask set to 255.255.255.0

4). Gateway set to 192. 168. 1. 1
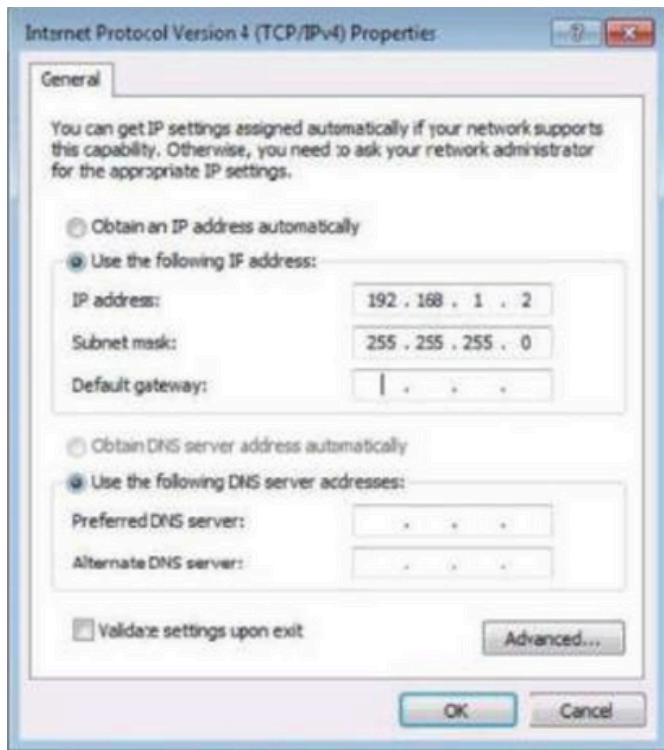
12.2 Log in by Browser

Default IP address for log-in: **192.168.1.200**

Type in user name and password (default user and default password: **admin**)

Note: Suggested to use newer version of Google, Firefox, IE11 browser for better compatibility.

13. Web

13.1 Status

1) In the Status interface, you can only view information but cannot modify it

2) Input INFO displays the resolution, audio and HDCP information of the input signal source

3) Output EDID Info interface will display partial EDID information of TV

4) Device Info displays MCU version and web version

Input Info

	Connected	Resolution	Color	Audio	HDCP
In1	×	×	×	×	×
In2	×	×	×	×	×
In3	×	×	×	×	×
In4	×	×	×	×	×

Output EDID Info

	Connected	Resolution	Color	Audio	Product
Out1	√	1920×1080P 60	444 None	ERR-1 None	SAM0D1A
Out2	×	×	×	×	×
Out3	×	×	×	×	×
Out4	×	×	×	×	×

Device Info

MCU Version:	V0.2.6
HTML Version:	V0.0.8

13.2 Input Menu

1) Rename: The input name can be changed by double-clicking input1~4

2)Video: Click the green buttons to enable or disable the video inputs

3) Audio delay: The default is Auto, click "-" or "+" to adjust

4) Copy EDID: Default1 ~4, user1~4, output1~4, temp1 can be switched to the inputs

Input	Rename	Video	Audio Delay	Copy EDID From
In1	Input1	●	- Auto +	Default1:4096x2160P@60-444 HDR:HLG ▾
In2	Input2	●	- Auto +	Default1:4096x2160P@60-444 HDR:HLG ▾
In3	Input3	●	- Auto +	Default1:4096x2160P@60-444 HDR:HLG ▾
In4	Input4	●	- Auto +	Default1:4096x2160P@60-444 HDR:HLG ▾
All		●	- Auto +	Default1:4096x2160P@60-444 HDR:HLG ▾

Copy EDID From [Default1:4096x2160P@60-444 HDR:HLG LPCM:2.0 XXX ▾] to [User1 ▾] (Apply)

User EDID : [_____] (Browse) to [User1 ▾] (Upload)

```
Default1:4096x2160P@60-444 HDR:HLG LPCM:2.0 XXX1234
Default2:4096x2160P@60-420 HDR:HLG LPCM:2.0 XXX1234
Default3:4096x2160P@30-444 HDR:HLG LPCM:2.0 XXX1234
Default4:1920x1080P@120-444 HDR:HLG LPCM:2.0 XXX1234
User1:1920x1080P@60-444 HDR:None ERR:ERR SAM0D1A
User2:4096x2160P@60-444 HDR:HLG LPCM:2.0 XXX1234
User3:4096x2160P@60-444 HDR:HLG LPCM:2.0 XXX1234
User4:4096x2160P@60-444 HDR:HLG LPCM:2.0 XXX1234
Output1:1920x1080P@60-444 HDR:None ERR:ERR SAM0D1A
Output2:Invalid
Output3:Invalid
Output4:Invalid
Temp1:Invalid
```

5) USER EDID can save the EDID of Bin document to User1~4. Click Browse to find the route of EDID, select User1~4 and click upload to save it

6) Copy EDID of sink to User 1~4
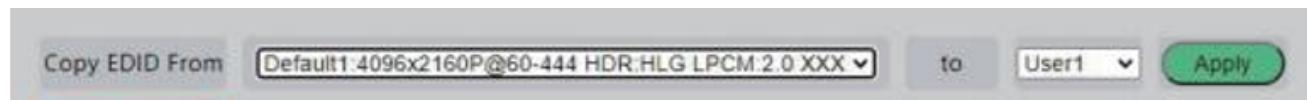
13.3 Output Menu

1) Rename: Output name can be changed, double click output1~4 to modify
2) Video: Click the green button to enable or disable the video outputs
3)Audio HDMI: Click the green button to enable or disable the audio outputs

4) HDMI Src Switch HDMI output audio, click the drop-down box to select HDMI1-4, ENC1-4, Auto HDMI, Auto ENC 10 options, no need to confirm after the selection, automatic effect

HDMI1
HDMI2
HDMI3
HDMI4
ENC1
ENC2
ENC3
ENC4
Auto HDMI
Auto ENC
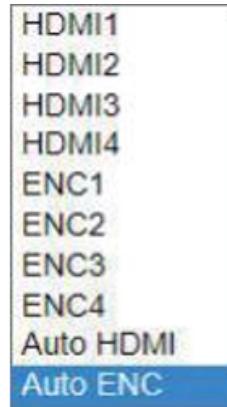
5) Audio Dec: Turn on/off audio separation, coaxial and analog on and off at the same time

6) Dec Src: audio separation switching, click the drop-down list box to select hdMI1-4 and AUTO HDMI options. The options take effect automatically without confirmation

7) Format: Output video format, the default is auto. Following the output TV EDID specifications, you can manually select 4K60, 4K30, 1080P60, 720P60

4K60
4K30
1080P60
720P60
Auto
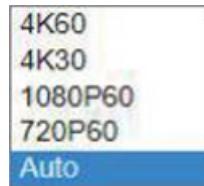
13.4 Matrix

1) Input1~4 corresponds to the input of matrix access 1~4, Output1~4 corresponds to the output of matrix 1~4, click the mouse button can directly realize the matrix switch

2)Output all indicates that all outputs are switched to one input

3) If the button turns blue, it indicates the input signal source corresponding to the current output TV

13.5 Preset Menu

Preset can be used to call, save, clean and customize the scene name
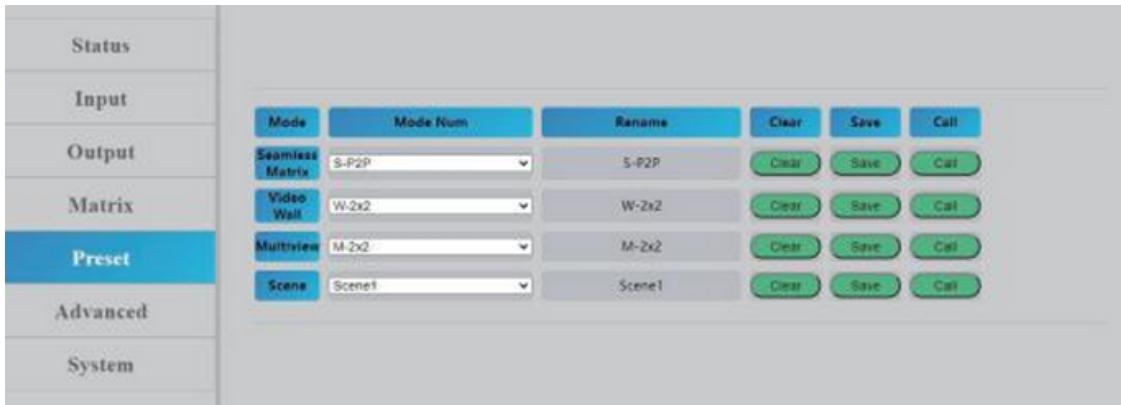
1) Seamless matrix can complete P2P, input1, input2, input3, input4. Click the drop-down box to select "Call", click "Save" to save the current scene, and click "Clear" to clear the scene to the default value

2) Video wall can customize the new scene. The default mode is the built-in wall mode of the system. Click the drop-down box to select call, click Save to save the current scene, and click "Clear" to clear the scene to the default value.
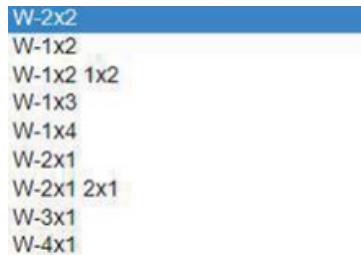
3) Multi View can implement that display 4 pictures on the same screen and has multiple split display modes; The new scene mode can be customized. Click the drop-down box to select "Call" to call directly, click "Save" to save the current scene, and click "Clear" to clear the scene to default value.

```
M-2x2
M-3x1 R
M-3x1 L
M-3x1 U
M-3x1 D
M-1+234 A
M-1+2 1+3 1+4 A
M-1+2 3+4 A
M-1+34 2+34 A
M-POP A
M-2x1+34 A
M-2x1+3 2x1+4 A
```
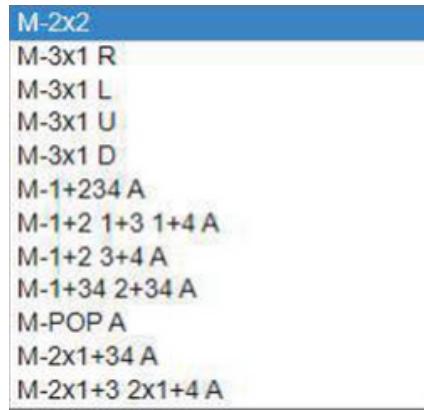
4) Scene can save and customize scene. There are 8 scenes. The default scene is the same as factory setting

5) Rename can change the scene name. Double click to modify the name

```
Rename

S-P2P

W-2x2

M-2x2

Scene1
```
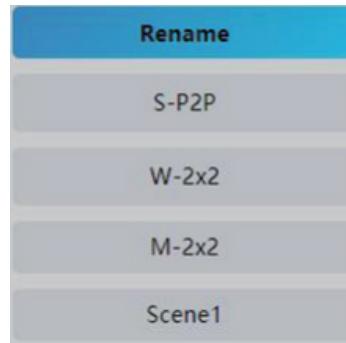
13.6 Advance

1) PIP mode switch. Click the button to enable or disable the mode.

2) Crop-X0 (Image cropping starting point of horizontal coordinates, range 0~6000)
Crop-Y0 (Image cropping starting point of vertical coordinates, range 0~6000)

Crop-X1 (Image cropping ending point of horizontal coordinates, range 0~6000)
Crop-Y1 (Image cropping ending point of vertical coordinates, range 0~6000)

Zoom-X0 (Image scaling starting point of horizontal coordinates, range 0~6000)
Zoom-Y0 (Image scaling starting point of vertical coordinates, range 0~6000)

Zoom-X1 (Image scaling ending point of horizontal coordinates, range 0~6000)
Zoom-Y1 (Image scaling ending point of vertical coordinates, range 0~6000)

3) Press "Apply" after inputting the coordinates.
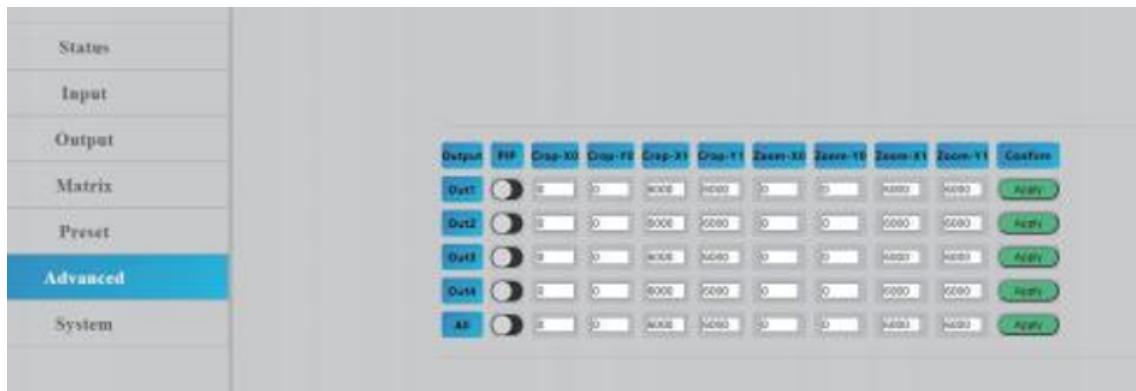
13.7 System

1) Network includes Mac address, IP, mask, gate, DHCP, TCP port. Mac address cannot be modified. IP address can modified in condition that DHCP is off and a highest level account is required

2) Account Management can revise account. A high level account cannot be modified by a low level account which can modify the current login account only

3) Reboot

4) Factory Simple: restore partial factory settings

5) Factory User: restore all factory settings

6) Config management: import or export configuration files

14. Firmware Updating

14.1 MCU Application Layer Upgrade

Open the software **UART_ISP.exe** in PC, select the correct port, the baud rate 115200,
 input the "A1" in port, and select the path **(.bin format)** of the program, and click "update" to
complete the upgrade.
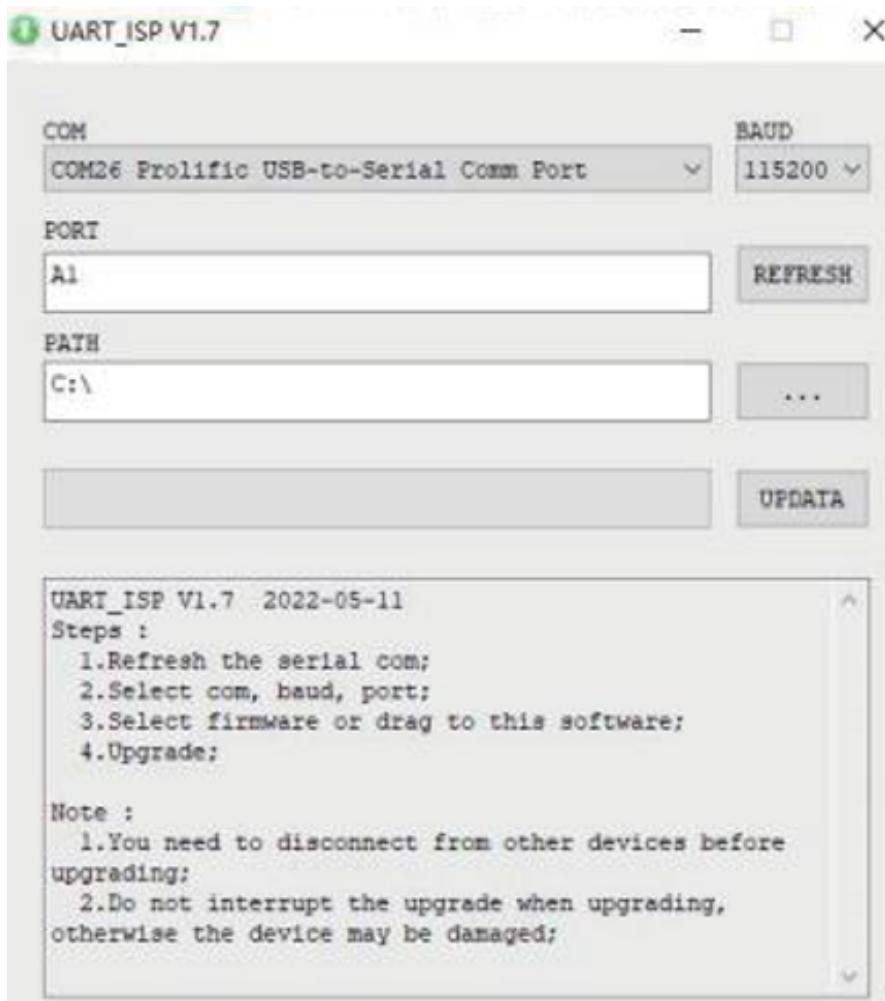
14.2 GUI Web Page Upgrade

Open software **UART_ISP_V1.7.exe** in PC, select correct port, baud rate 115200, input F0 and select a program **(xxx.HTML)** in path, click update to complete upgrade.
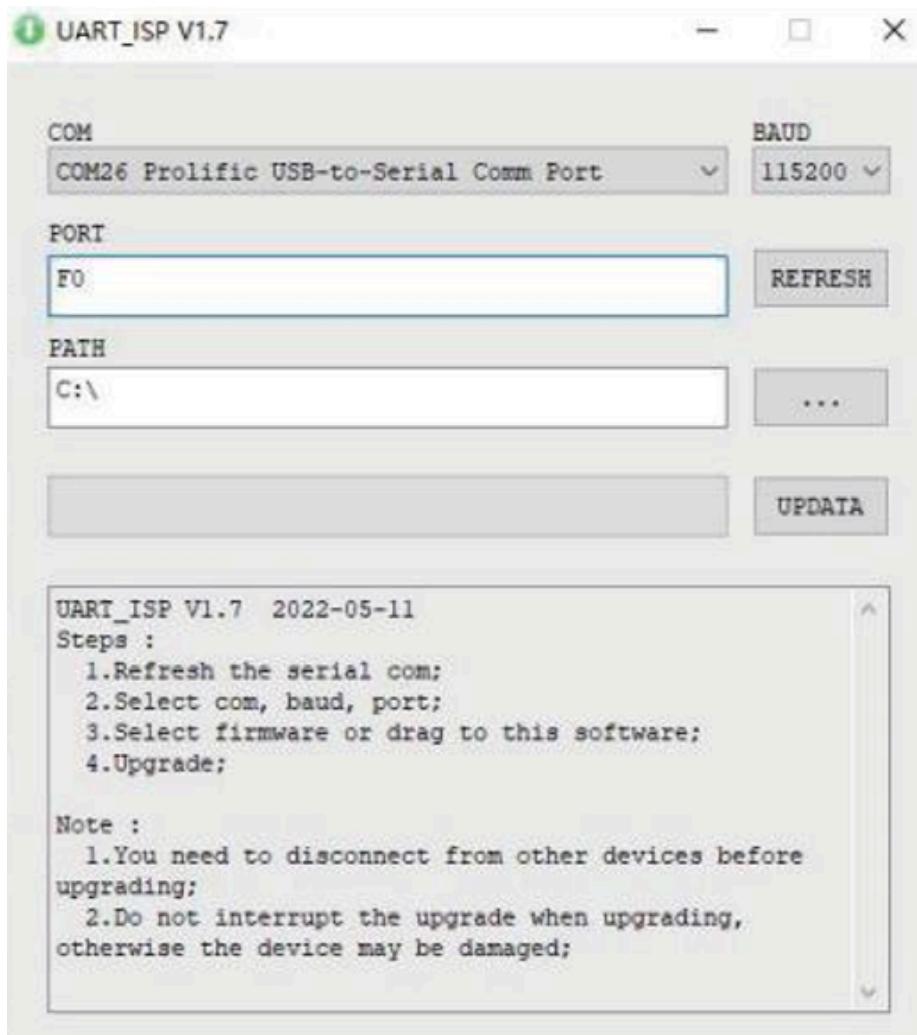
14.3 DTA File Import/Export

PORT: Number setting

Dx: Indicates the DAT configuration, which is generally a .DAT file, PC or web page burning after the completion of the device automatically restart.

D0: Indicates the configuration information at the permission level 0, including running information and general settings.

D1: Indicates advanced configuration information (also includes D0 information, similarly below), usually including user-defined names, USER EDID, scene, etc.

D2: Indicates the highest level open to customers, including account and password information and infrared learning information

Ex: Indicates USER EDID, which is generally a .bin file.

E0: USER EDID 0;

E1: USER EDID 1;

...

EDID needs to be stored in user before it can be exported.

15. Maintenance

Clean this unit with a soft, dry cloth. Never use alcohol, paint thinner, or benzine to clean.

16. Warranty

If your product does not work properly because of a defect in materials of workmanship, our company (referred to as "the warrantor") will, for the length of the period indicated as below, "Parts and Labor (1) Year", which starts with the date of original purchase ("Limited Warranty period"), at its option either (a) repair your product with new or refurbished parts, or (b) replace it with a new or a refurbished product. The decision to repair or replace will be made by the warrantor.

During the "Labor" limited warranty period, there will be no charge for labor. During the "Parts" warranty period, there will be no charge for parts. You must mail-in your product during the warranty period. This Limited Warranty is extended only to the original purchaser and only covers products purchased as new. A purchase receipt or other proof of original purchase date is required for Limited Warranty service.

17. Mail-In Service

When shipping the unit, carefully pack and send it prepaid, adequately insured, and preferably in the original carton. Include a letter detailing the complaint and provide a day time phone and/or email address where you can be reached.

18. Limited Warranty Limits and Exclusions

This Limited Warranty ONLY COVERS failures due to defects in material or workmanship, and DOES NOT COVER normal wear and tear or cosmetic damage. The Limited Warranty ALSO DOES NOT COVER damages which occurred in shipment, or failures which are caused by products not supplied by warrantor, or failures which result from accidents, misuse, abuse, neglect, mishandling, misapplication, alteration, faulty installation, set-up adjustments, mis- adjustment of consumer controls, improper maintenance, power line surge, lightning damage, modification, or service by anyone other than a Factory Service center or other Authorized Servicer, or damage that is attributed to acts of God.

There are no express warranties except as listed under "Limited Warranty Coverage". The warrantor is not liable for incidental or consequential damages resulting from the use of this product or arising out of any breach of this warranty. (As examples, this excludes damages for lost time, cost of having someone remove or re-install an installed unit if applicable, travel to and from the service, loss of or damage to media or images, data or other recorded content. The items listed are not exclusive but are for illustration only). Parts and service, which are not covered by this limited warranty, are your responsibility.

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