



HDMI Matrix Switcher

User Manual

Model : HS04M-4K6G

4K60Hz 4 x 4 HDMI Matrix Switcher Built in Audio Extractor



Introduction

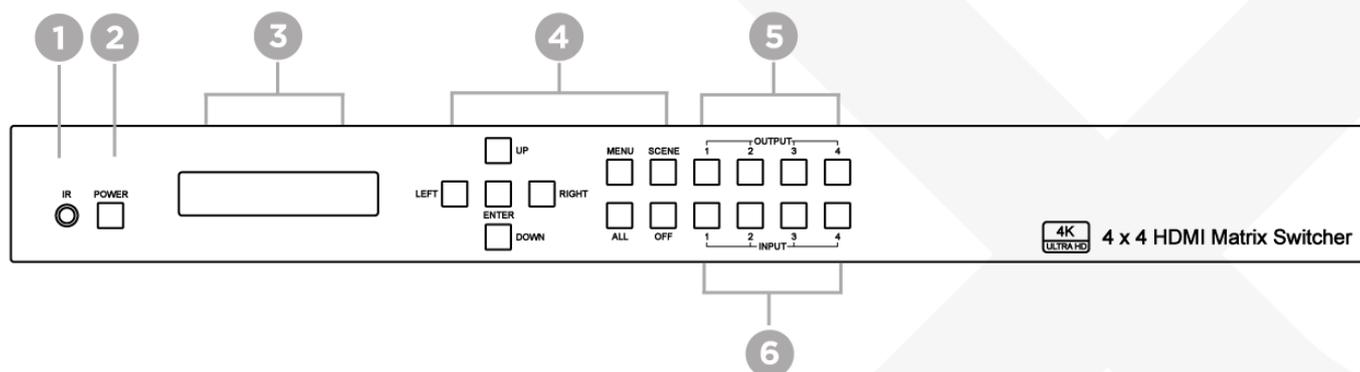
HS04M-4K6G is a 4 input 4 output HDMI matrix switch that allows you to route 4 Hi-res HDMI sources to 4 HDMI displays. Moreover, the HDMI audio extraction function allows you to integrate with your existing premium audio equipment to have superior audiovisual experience.

Last but not least, there are multiple options to control and manage the matrix intuitively, including IR remote, RS-232, front panel buttons, Web GUI, Telnet, and Android/ iOS mobile APP.

Features

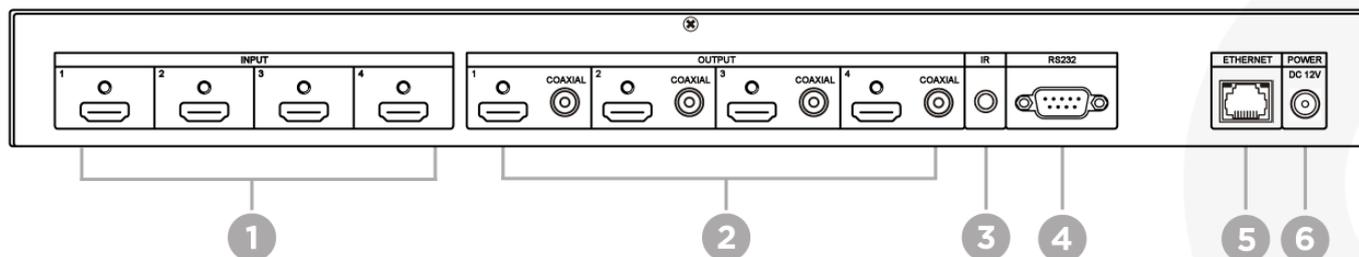
- Resolution up to 4K@60Hz 4:4:4.
- Supports ARC (Audio Return Channel).
- Supports HDMI audio extraction via S/PDIF coaxial output.
- Supports cable locks on each HDMI input & output ports.
- Built-in LCM panel and LED indications for checking the status of all connected devices.
- Rack mountable (1U standard).
- Managed via RS232, front panel buttons, IR remote, WebGUI, iOS/Android APP.

1.0 HS04M-4K6G Panel View



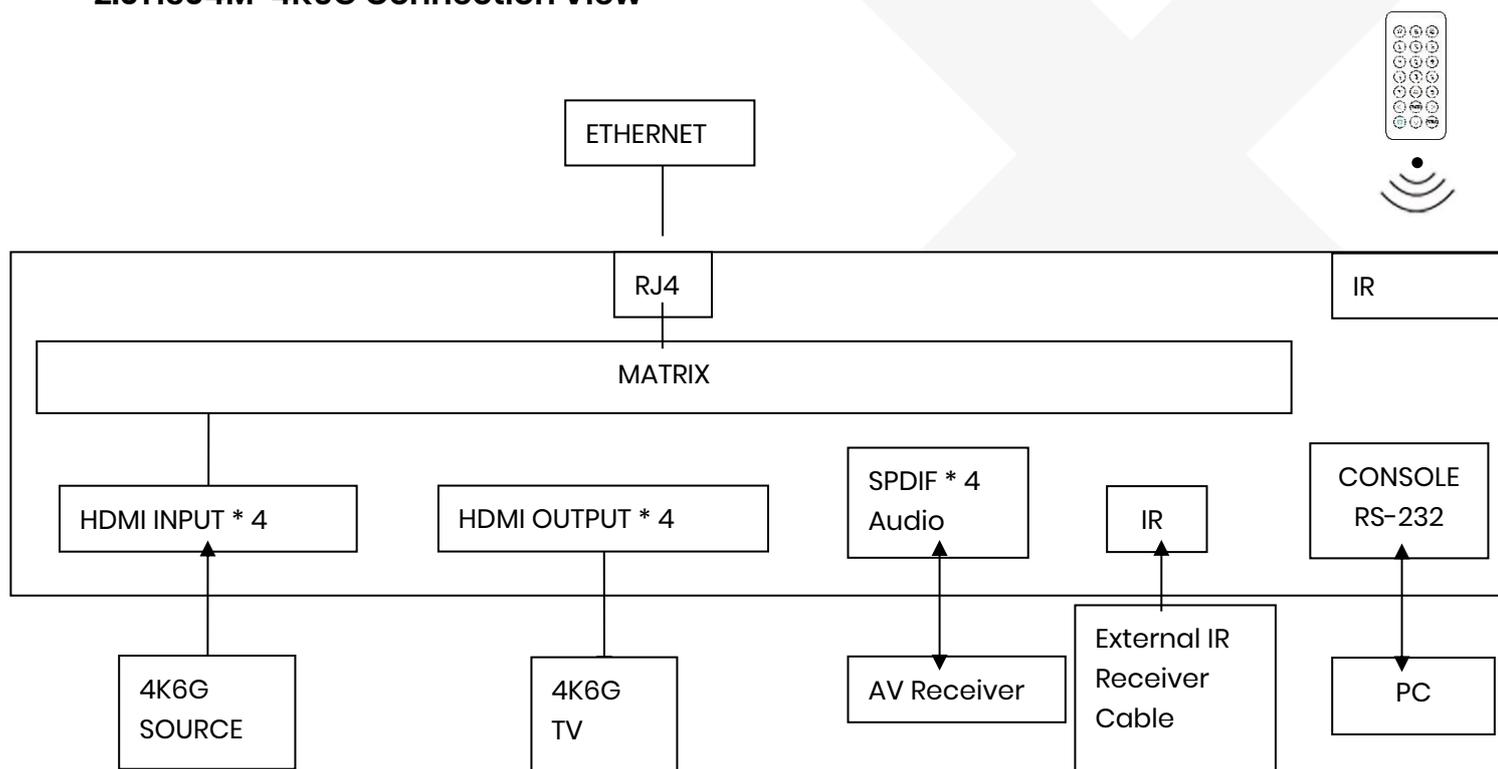
| Item | Function | LED Status | Description |
|------|-------------|------------|--|
| 1 | IR Receiver | N/A | Receiving IR remote signal |
| 2 | POWER | Blue ON | Power ON |
| | | Red ON | Standby |
| 3 | LCM Display | N/A | Show status and menu function |
| 4 | UP | N/A | Move menu function up in LCM |
| | DOWN | | Move menu function down in LCM |
| | LEFT | | Move menu function left in LCM |
| | RIGHT | | Move menu function right in LCM |
| | ENTER | | Execution selected function |
| | MENU | Blue ON | Menu/Status Press 3 seconds to enable/disable KEYLOCK |
| | SCENE | | Save/Load scene |
| | ALL | | Select all output |

| | | | |
|---|------------|---------|---|
| | OFF | | Turn off select output |
| 5 | OUTPUT 1~4 | Blue ON | Press these buttons to select the desired output Monitor connected |
| | | OFF | No monitor connected |
| 6 | INPUT 1~4 | Blue ON | Press these buttons to select the desired input Video input detected |
| | | OFF | No video input |



| | | | |
|--------|---|-----|---|
| 1 | INPUT HDMI | N/A | HDMI input port 1~4 |
| 2 | SPDIF | N/A | SPDIF audio output port 1~4 |
| | OUTPUT HDMI | N/A | HDMI output port 1~4 |
| 3 | IR | N/A | External IR receiver |
| 4 | CONSOLE | N/A | RS232 command control / Firmware update |
| 5 | RJ45 | N/A | WEB control interface |
| 6 | DC JACK | N/A | Power input |
| Notice | <p>* In standby mode, IR remote cannot control matrix but power on matrix only</p> <p>* Please press ENTER to execution any change of menu settings</p> | | |

2.0HS04M-4K6G Connection View



3.0LCM Panel Function

Power on Main Screen

4 X 4 HDMI MATRIX
Version V1.00

After power on, the main screen will show matrix name and version information.
The matrix will back to main screen if no operations in 30 seconds

Channel Switching

OUTPUT 1 2 3 4
INPUT 1 2 3 4

Press OUTPUT 1~4 to select HDMI output (multiple selections) then press INPUT 1~4 (single selection), press ENTER to execute.

Key Lock:

KEYLOCK!

Press MENU button for 3 seconds to enable/disable key lock function.

Main MENU Option

- * 1. SWITCH
- 2. SCENE
- 3. EDID
- 4. ETHERNET
- 5. REMOTE ID
- 6. AUDIO SELECT
- 7. SYSTEM INFO
- 8. USB UPDATE

Operation

- Press UP or DOWN key to move * to select an item for setting and press ENTER key to enter into subpage.
- When the selected sub-page setting is completed, press the MENU button to return to the main page

4.0LCM Main MENU Function Operations

SWITCH : (Default: 1 2 3 4)

| | |
|--------|---------|
| OUTPUT | 1 2 3 4 |
| INPUT | 1 2 3 4 |

This function is used to switch the input/output port. Enter the SWITCH menu. Press the ENTER key, then the LCM second line INPUT will flash. Press LEFT or RIGHT button to select the output to be modified. Then press UP or Down button to select the input port. After that, press ENTER to confirm setting.

SCENE

| | |
|----------|------|
| OUTPUT → | SAVE |
| INPUT → | LOAD |

SCENE function provide 10 sets of channel setting to fast reload for different application.

SAVE

Save current channel setting, press UP or DOWN to select the number and ENTER to save. It will show input number and status of audio selection.

At main screen you could use IR01 remote button **B** to enter SCENE function, button **7~0** (output) to select port number to save.

| | |
|---------|-------------|
| SAVE | 1 2 3 4 |
| SCENE#1 | 2H 3H 4A XA |

LOAD

Reload saved scenes, press UP or DOWN to select the number and ENTER to load. It will show input number and status of audio selection.

At main screen you could use IR01 remote button **B** to enter SCENE function, button **1~4** (input) to select port number to load.

| | |
|---------|-------------|
| LOAD | 1 2 3 4 |
| SCENE#1 | 2H 3H 4A XA |

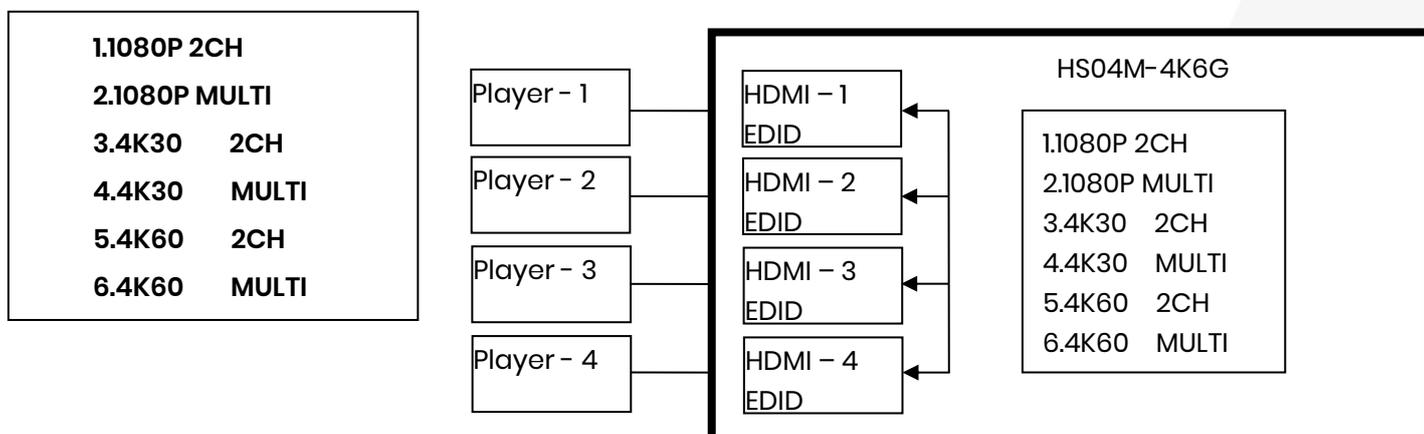
EDID: (Default: LPCM-2CH)

Because the player output display resolution will be based on TV EDID, this Matrix provides two default EDID modes: "BUILD-IN MODE" and "COPY MODE".

| |
|---------------|
| BUILD-IN MODE |
| COPY MODE |

BUILD-IN MODE

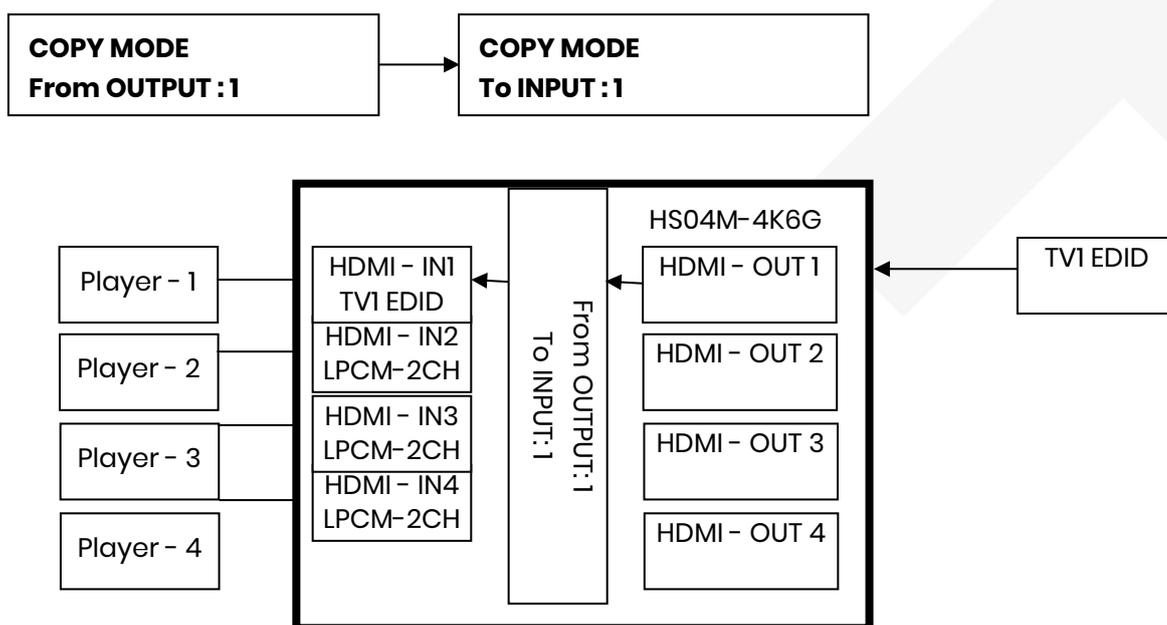
This mode supports video resolution up to 4K 60Hz, audio format support LPCM-2CH、LPCM-7.1、AC3、DTS. After enter BUILD-IN MODE menu, press UP or DOWN key to select then press ENTER to confirm setting.



4.7 COPY MODE

To fully support the TV resolution and audio mode, the matrix provides “copy mode” to copy TV EDID for input source reference. When use the copy mode, recommend copying the lowest resolution TV EDID. Otherwise it may cause no picture display if the TV resolution is not able to support higher resolution.

After entering COPY MODE menu, press UP or DOWN button to select the OUTPUT (1 to 4) and press ENTER, then press UP or DOWN button to select the INPUT (1 to 4 or ALL) and press ENTER to confirm. **If selected output not connected with monitor it will show “NO OUT X HPD” and return to upper menu when press ENTER.**



It will show EDID Write ERROR if update failed, or EDID WRITE OK if success.

4.8 Ethernet

- * 1. IP ADDRESS
- 2. SUBNET MASK
- 3. GATEWAY
- 4. DHCP CLIENT
- 5. MEDIA TYPE
- 6. MAC FILTER

IP Address: (Default: 192.168.0.10)

| |
|-----------------------------|
| IP Address 192.168. 0.10 |
|-----------------------------|

This function can be setup MATRIX host intranet "IP Address", press the ENTER, the left-most number of second row will flash, then press the UP or DOWN button to change the numbers, , press LEFT or RIGHT to move to another location, the move to a position number will flash, press ENTER to complete the setting.

Subnet Mask: (Default 255.255.255.0)

| |
|--------------------------------|
| Subnet Mask 255.255.255.000 |
|--------------------------------|

This function can be setup MATRIX host intranet "Subnet Mask", press the ENTER, the left-most number of second row will flash, then press the UP or DOWN button to change the numbers Press the ENTER, , press LEFT or RIGHT to move to another location, the move to a position number will flash, press ENTER to complete the setting.

Gateway: (Default 192.168.0.1)

| |
|--------------------------|
| Gateway 192.168. 0. 1 |
|--------------------------|

This function can be setup MATRIX host intranet "Gateway", press the ENTER, the left-most number of second row will flash, then press the UP or DOWN button to change the numbers Press the ENTER, , press LEFT or RIGHT to move to another location, the move to a position number will flash, press ENTER to complete the setting.

DHCP Client: (Default Disable)

| |
|------------------------|
| DHCP Client Disable |
|------------------------|

When DHCP Clients setup at "Enable", the MATRIX host will automatically get IP Address, Subnet Mask, Gateway, if setup at "Disable", the MATRIX Host IP Address need go through "ETHERNET" menu to set IP Address, Subnet Mask, Gateway, to press the ENTER, the second row will flash, then press the UP or DOWN

to select DISABLE, ENABLE, then press ENTER to complete the setting.

Media Type: (Default 100M)

| |
|--------------------|
| Media Type 100M |
|--------------------|

This function can be setup MATRIX host intranet “Media Type, press the ENTER, the second row will flash, then press the UP or DOWN button to select 10M, 100M, AUTO, press ENTER to complete the setting.

MAC Filter : (Default Disable)

| |
|-----------------------|
| MAC FILTER DISABLE |
|-----------------------|

MAC Filter can be setup with registered MAC Address in order to connect the MATRIX host Web UI, MAC Address required by the Web page to fill in, this function can only be setup at “DISABLE”, “ENABLE”, then to press the ENTER, the second row will flash, then press the UP or DOWN to select DISABLE, ENABLE, then press ENTER to complete the setting.

REMOTE ID : (Default ID 4)

This function must be set to match the Matrix remote control IR01 with the matrix itself. A conflict with other devices remote control is avoided.

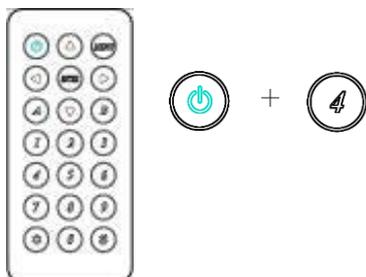
After entering REMOTE ID menu, press ENTER, the LCM LINE 1 number will flash. Then Press UP or DOWN button to select the number, and then press ENTER to confirm.

When finish REMOTE ID setting, MATRIX remote control IR01 must also set the same ID in order to operation in normal.

IR Remote setting: Press and hold the POWER button, then press the number button which can be set from 0 to 9, total 10 groups.

These settings on IR01 remote control have to be done the first time you use the IR01 or when you change the batteries.

REMOTE ID 4



AUDIO SELECT: (Default H)

This function can set the output of SPDIF to HDMI (H) or ARC (A).

| | | | | |
|--------|---|---|---|---|
| OUTPUT | 1 | 2 | 3 | 4 |
| AUDIO | H | H | H | H |

SYSTEM INFO

Display HS04M-4K6G Matrix firmware version

| | |
|----------|-------|
| * 1.MAIN | V1.00 |
| 2.WEB | V1.00 |
| 3.CPLD | V1.00 |
| 4.IN1 | V1.00 |
| 5.IN2 | V1.00 |
| 6.IN3 | V1.00 |

| | |
|----------|-------|
| 7. IN4 | V1.00 |
| 8. OUT1 | V1.00 |
| 9. OUT2 | V1.00 |
| 10. OUT3 | V1.00 |
| 11. OUT4 | V1.00 |

5.0 Remote Control Function (IR01)

- To command the matrix locally, setup the remote control IR01 ID with the same code of the Matrix (see 4.5). The default code is 4. (Power+4)
- Warning: These settings have to be done the first time you use the IR01 or when you change the batteries.
- IR ID setup : press and hold POWER button , then press Number key

Remote control button define

| Symbol | Function |
|--------|----------|
|--------|----------|



| | | |
|--|-------|------------------|
|  | Power | Power on/Standby |
|  | LEFT | LEFT |
|  | RIGHT | RIGHT |
|  | UP | UP |
|  | DOWN | DOWN |
|  | ENTER | ENTER |
|  | MENU | MENU |
|  | A | ALL |
|  | B | SCENE |
|  | | Output 1 |
|  | | Output 2 |
|  | | Output 3 |
|  | | Output 4 |
|  | | N/A |
|  | | N/A |
|  | | Input 1 |
|  | | Input 2 |
|  | | Input 3 |
|  | | OFF |
|  | | Input 4 |

For example: to switch output port 1 to input port 4, press 1 (OUTPUT 1) and then press 7 (INPUT 4).

* Under using quick key operation, LCM screen will jump to the output / input setting page; it won't allow using the front panel button to operate the HS04M-4K6G Matrix.

6.0 Remote Control Function : (CONSOLE)

HS04M-4K6G support RS232 and TCP/IP control by same command as below:

6.1 For RS232 CONSOLE:

Connect the RS232 CONSOLE port to the COM port of the host by a F/M RS232 straight cable (pin 2 to pin 2; pin 3 to pin 3, pin 5 to pin 5).



Communication format is 9600,8, N, 1 (9600 bps, 8 data bits, no parity check, 1 stop bit)

For Ethernet
Default IP



TCP/IP(Winsock)
address: 192.168.0.10, Port:47011

6.2 Operation Instruction format:

Command + Δ (Space) + Parameter + Enter

| [Command] | [Description] |
|--------------------|--------------------------|
| POWER Δ [y] | Power on/off |
| TX1 Δ [n] | Set Input #n to output 1 |
| TX2 Δ [n] | Set Input #n to output 2 |
| TX3 Δ [n] | Set Input #n to output 3 |
| TX4 Δ [n] | Set Input #n to output 4 |
| IR_ID Δ [p] | Set IR remote ID |
| SAVE Δ [p] | Save scene to #n |
| LOAD Δ [p] | Load scene from #n |

| | |
|----------------------|---|
| LOCK△[y] | Panel button& IR remote control Lock/Unlock |
| SET_DHCP△[y] | DHCP client on/off |
| IPADDRESS△[x.x.x.x] | Set Matrix IP address |
| SUBNETMASK△[x.x.x.x] | Set Matrix subnet mask |
| GATEWAY△[x.x.x.x] | Set Matrix gateway |
| MEDIATYPE△[z] | Network speed select |
| MACFILTER△[y] | MAC filter on/off |
| STATUS | Show connection status |
| VERSION | Show firmware version |
| HELP | Help |

| [Symbol] | [Parameter] |
|----------|----------------------|
| n | 00=off, 01~04=1~4 |
| p | 00~09=0~9 |
| x | 0~255 |
| y | 00=off, 01=on |
| z | 00=auto, 01=10M, 02= |

Example:

-To route input 4 to output 1, send the following string:
TX1△04Enter

-To put in standby the matrix, send the following string:
POWER△00Enter

Commands are **case insensitive**.

The Matrix will reply **OK** once string is correct, **NG** in case of incorrect string

7. Ethernet Control Function

Initial IP Configuration

1. Setup MATRIX IP Address same as your PC with same domains.(Default 192.168.0.10)
2. MATRIX IP Address method, please refer. to "ETHERNET" Chapter
3. Input IP Address on a web page, you could link to the Web UI of the MATRIX host.
4. Web UI Operation :

SWITCH SETTING

The screenshot shows a web-based configuration page for an HDMI 2.0 4x4 MATRIX. The page title is "HDMI 2.0 4x4 MATRIX" in a green bar. Below it, the section is titled "SWITCH SETTING" in orange. The interface includes a "MATRIX-01" label, a "Power" section with a "Power On" dropdown menu, and four rows of "Output" and "Input" dropdown menus. There are also "Reload", "Advanced", and "Apply" buttons. The "All port" dropdown is currently set to "NA". The version "Version V1.00" is displayed in the bottom right corner.

- **Power** : Control MATRIX power on and standby.
- **Output** : Display output 1~4, it can change the display name by the Aliases page.
- **Input** : Display input 1~4, this field is a drop down menu, this field is a drop-down menu, a drop-down menu include Input 1 ~ 4 and OFF, It can change the display name by the Aliases page.
- **Reload** : Get MATRIX host message.
- **Advanced** : Enter into the "Advanced" page.
- **Apply** : Complete the setting
- **All Port** : Set all output from input 1~4 or off at once.

Advanced

| MATRIX | |
|----------------------------|--------------------|
| Advanced | |
| IP address | 192.168.0.10 |
| Subnet mask | 255.255.255.0 |
| Gateway IP | 192.168.0.1 |
| Media Type | Auto detect ▼ |
| DHCP Client | Disable ▼ |
| Auto Reset (No data input) | 2 (1 ~ 255 Minute) |
| Device Name | MATRIX-01 |
| MAC address | 00-60-69-BE-36-1C |
| OnLine | 0 |

Scene MAC Filter Aliases Back Apply

- **IP address** : Change **IP address**
- **Subnet mask** : Change **Subnet mask**
- **Gateway IP** : Change **Gateway IP**
- **Media Type** : Change 10 / 100 / **Auto detect**
- **DHCP Client** : When setup at Enable, the MATRIX host will automatic get **IP Address** · **Subnet Mask** · **Gateway**, if setup at **Disable**, the **MATRIX** host **IP Address** · **Subnet Mask** · **Gateway** need to set from Advanced page.
- **Auto Reset** : The terminal connection people will be 4 users on line at same time, this function could setup the linking time to avoid long time linking and other user cannot use. When over the setting link time, the terminal will automatically disconnect the link. . (0: no time setup, 1 ~ 255 Minute time range that can be setup)
- **Scene** : Click to enter Scene setup page
- **MAC Filter** : Enter to **MAC Filter to setup page**
- **Aliases** : Enter to **Aliases** to setup page
- **Device Name** : Can change device name
- **Back** : Jump back **SWITCH SETTING** page
- **Online** : Terminal connection users display, the max. 4 users on line.

Aliases

MATRIX

Aliases

| Output | | Input | |
|----------|---------------------------------------|---------|--------------------------------------|
| Output 1 | <input type="text" value="Output 1"/> | Input 1 | <input type="text" value="Input 1"/> |
| Output 2 | <input type="text" value="Output 2"/> | Input 2 | <input type="text" value="Input 2"/> |
| Output 3 | <input type="text" value="Output 3"/> | Input 3 | <input type="text" value="Input 3"/> |
| Output 4 | <input type="text" value="Output 4"/> | Input 4 | <input type="text" value="Input 4"/> |

- Aliases page can change input/output name, enter **Apply** to finish the setting after change **The new name will update and correspond to SWITCH SETTING** page **Output / Input**.
- Press **Back** jump back to **advanced** page.

MAC Filter

MATRIX

MAC Filter

| | |
|----------------|--|
| MAC Filter | Enable <input type="button" value="v"/> |
| MAC address 1 | <input type="text" value="11-22-33-44-55-66"/> |
| MAC address 2 | <input type="text" value="00-00-00-00-00-00"/> |
| MAC address 3 | <input type="text" value="00-00-00-00-00-00"/> |
| MAC address 4 | <input type="text" value="00-00-00-00-00-00"/> |
| MAC address 5 | <input type="text" value="00-00-00-00-00-00"/> |
| MAC address 6 | <input type="text" value="00-00-00-00-00-00"/> |
| MAC address 7 | <input type="text" value="00-00-00-00-00-00"/> |
| MAC address 8 | <input type="text" value="00-00-00-00-00-00"/> |
| MAC address 9 | <input type="text" value="00-00-00-00-00-00"/> |
| MAC address 10 | <input type="text" value="00-00-00-00-00-00"/> |

- **MAC Filter** can be setup as registered **MAC Address** to link **MATRIX** host Web UI , the max. up to **10 groups MAC Address**
- **After MAC Address fill in**, select **Enable** and press **Apply** to complete the setting.
- Press **Back** jump to **advanced** page.

Scene

MATRIX

Scene

| Save | Load | 1 | 2 | 3 | 4 |
|------------------------|------------------------|--|---|---|---|
| Save1 | Load1 | <input type="text" value="02_01_04_01"/> | | | |
| Save2 | Load2 | <input type="text" value="02_01_04_01"/> | | | |
| Save3 | Load3 | <input type="text" value="01_02_03_04"/> | | | |
| Save4 | Load4 | <input type="text" value="01_02_03_04"/> | | | |
| Save5 | Load5 | <input type="text" value="01_02_03_04"/> | | | |
| Save6 | Load6 | <input type="text" value="01_02_03_04"/> | | | |
| Save7 | Load7 | <input type="text" value="01_02_03_04"/> | | | |
| Save8 | Load8 | <input type="text" value="01_02_03_04"/> | | | |
| Save9 | Load9 | <input type="text" value="01_02_03_04"/> | | | |
| Save10 | Load10 | <input type="text" value="01_02_03_04"/> | | | |
| Back | | Update | | | |

- **Save** : Save 10 set of channel settings
- **Load** : Reload 1 of the channel settings
- **Update**: Refresh the status of Load
- **Back** : Back to Advanced page



8. Android APP Function

APP name: Matrix Controller



System Requirement

Android 4.0 and up

Size: 1.2M

Language: English, Traditional Chinese, Simplified Chinese

Google Play Download Link

<https://play.google.com/store/apps/details?id=sct.com.matrixcontroller>

Google Play Download QR code



System Setting

Connect mobile phone to Wi-Fi and set the IP/ subnet mask same with matrix network segment

Default IP address of matrix is **192.168.0.10**

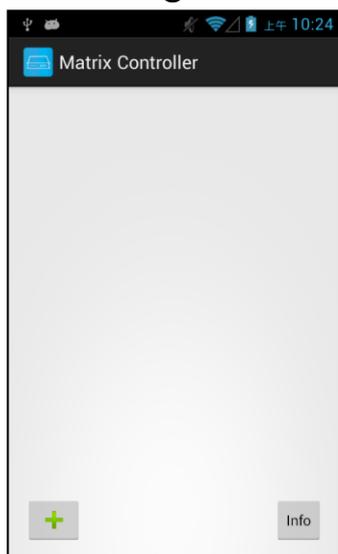
Default subnet mask is 255.255.255.0

You could also set to DHCP mode, please refer user manual

There are two ways to get the IP address of matrix:

1. Use APP function: Scan Device to get the IP address.
2. Use panel button or IR remote control by press [MENU], select to [ETHERNET] function and press [ENTER] to enter [IP Address] function than press [ENTER], it will show IP Address in the LCD panel of matrix

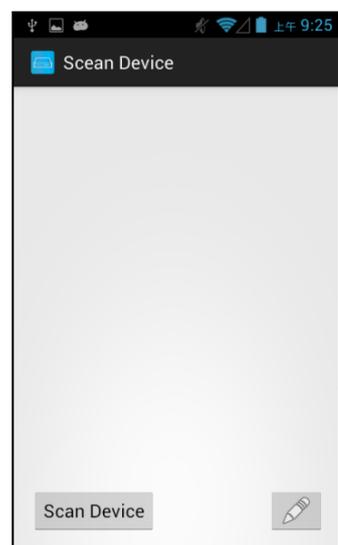
Main Page



When first time enter the APP will see the main page

Bottom left 「+」 to add matrix
Bottom right 「Info」 to show information

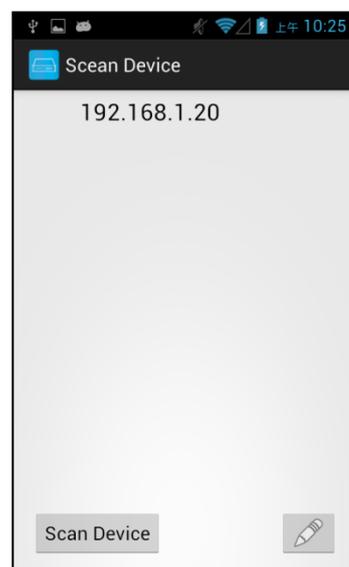
Scan Device



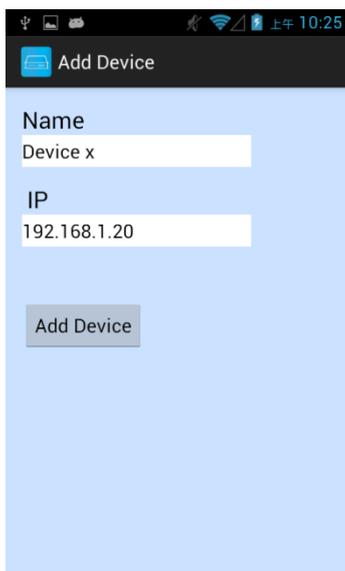
Touch 「+」 button at main screen to enter 「Scan Device」 page

Touch bottom left 「Scan Device」 to start scan
Touch bottom right pen icon to input the IP address manually

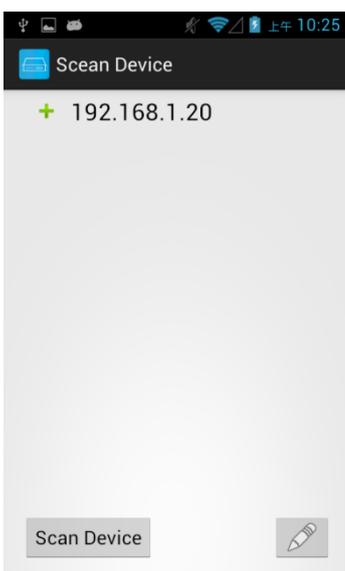
Add Matrix



After scanning it will show all matrixes in the list
Touch the IP in list to enter 「Add Device」 page



Enter the name of matrix then touch 「 Add Device 」 to finish setting
Notice : Name should be unique, not allow duplicate

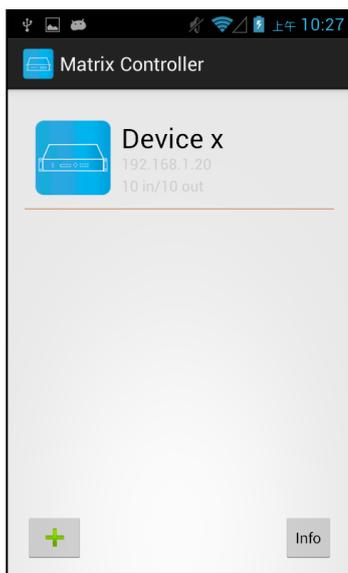


It will show 「 + 」 icon in front of the IP address when finished

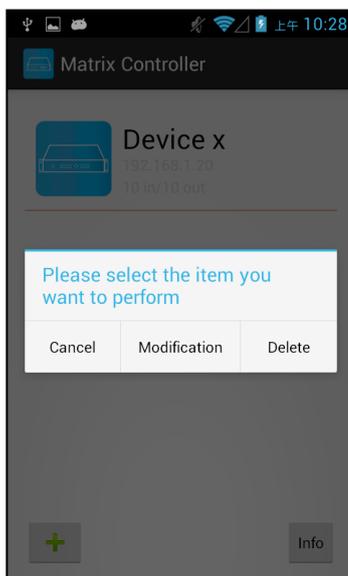


Return to main screen you will see the matrix which just add

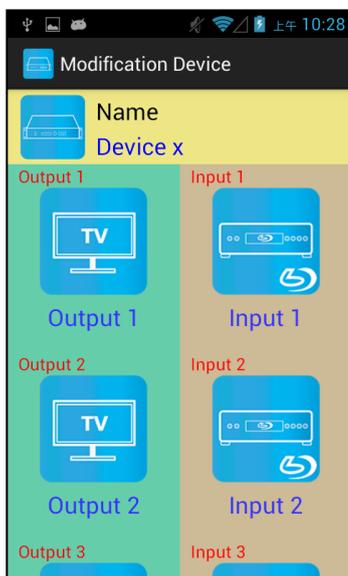
Modify Device



Press the matrix name to show pop-up dialog



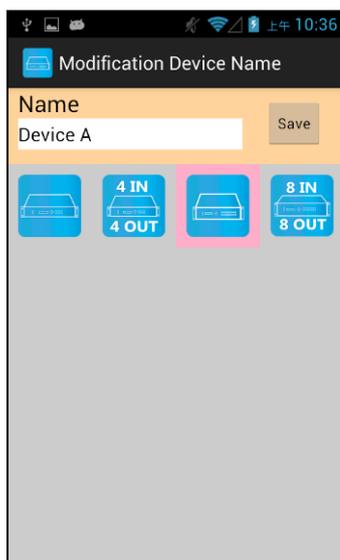
Touch 「Modification」 to enter modification page.



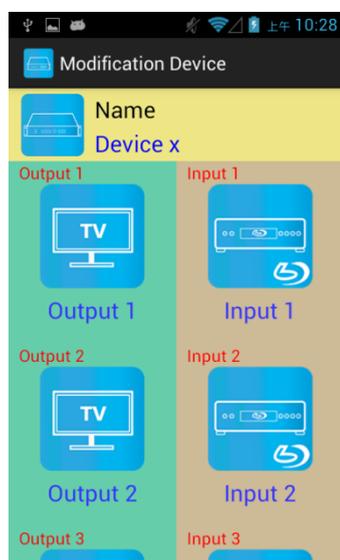
Yellow block shows matrix name and icon

Green block shows name and icon of output devices

Brown block shows name and icon of input devices



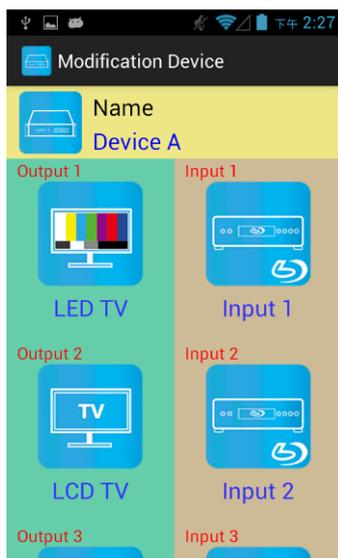
Touch yellow block to modify matrix name and icon
Input the name and select the icon you prefer then touch 「 Save 」 to finish



Return to Modification page you will see the matrix have been changed



Touch green block to modify output name and icon
Input the name and select the icon you prefer then touch 「 Save 」 to finish



Return to Modification page you will see the output have been changed



Touch brown block to modify input name and icon
Input the name and select the icon you prefer then touch 「 Save 」 to finish



Return to Modification page you will see the input have been changed

Channel Switching mode (load scene, input selection, output selection)



Click device name in list to enter load scene page



Slide right from load scene page to enter input selection mode (as before)



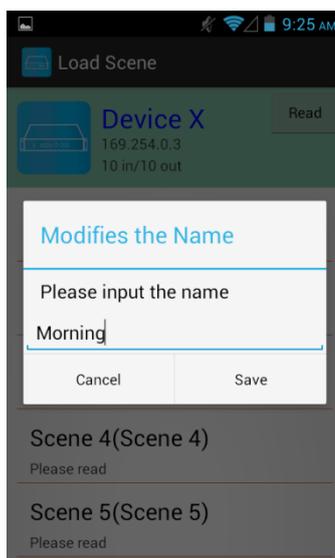
Slide left from load scene page to enter output selection mode (support multiple selection)

Load scene

Modify scene name



Press scene column to show pop-up dialog to modify scene name



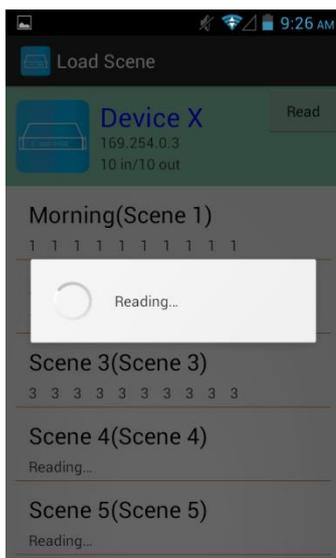
After modification touch 「Save」 to save scene name
It will return to Load Scene page automatically.

Notice : Name should be unique, not allow duplicate or empty

Read scene status



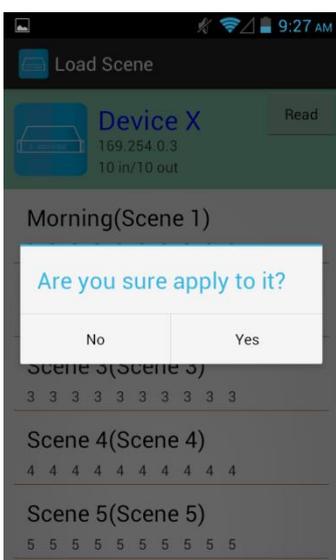
Touch top right 「Read」 to renew the scene status



It will show pop-up message 「Reading...」
After reading it will refresh scene status



Touch the column name to show pop-up dialog



Touch 「Yes」 to apply scene

Input Selection Mode



Top right 「Refresh」 to renew the status of matrix
Below 「Refresh」 button to power on/off the matrix

The block under device are Output 1~ Output 10
(4 by 4 matrix only shows Output 1~Output 4)

Left side shows output device name
Right sideshows current input device name

Bottom left 「Save Scene」 to save the scenes



Touch output block to enter Channel Selection page

Touch input device to switch or ON/OFF icon to power on/off



It will return to Input Selection page after switching and you will see the input have been changed

Output Selection Mode



Top right 「Refresh」 to renew the status of matrix
Below 「Refresh」 button to power on/off the matrix

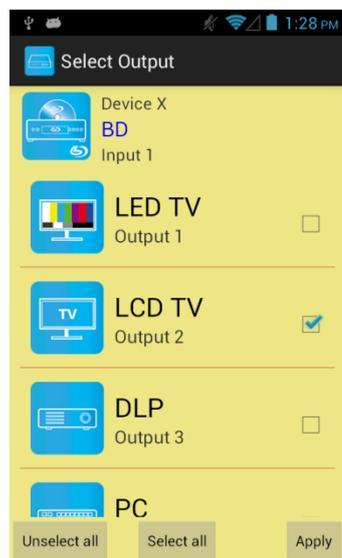
The blocks under device are Input 1~ Input 10
(4 by 4 matrix only shows Input 1~Input 4)

Left side shows input device name

Right side shows current output numbers of devices

Bottom left 「Save Scene」 to save the scenes

Bottom right 「Video off」 to turn off video output



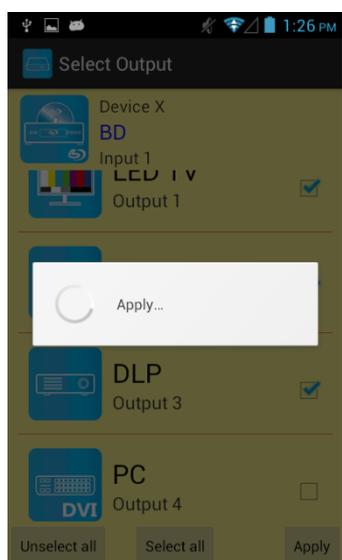
Touch input block or 「Video off」 to enter Output Selection page

It will show connected output of current input

Bottom left 「Unselect all」 to clear all output box

Bottom center 「Select all」 to check all output box

Bottom right 「Apply」 to apply output setting



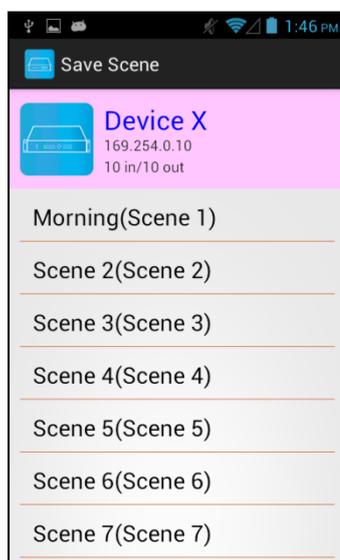
After touch 「Apply」 it will show pop-up message 「Apply...」

It will return to Input Selection page after switching and you will see the numbers of output have been changed

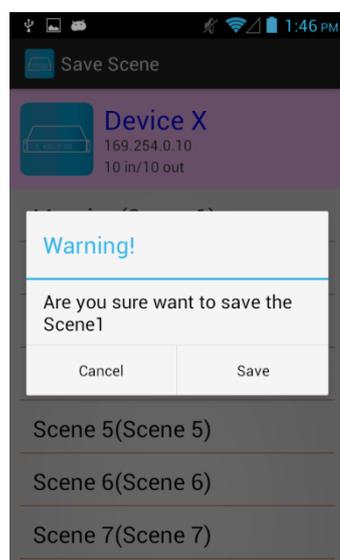
Save Scene



In Input or Output Selection page touch bottom left 「 Save Scene 」 to enter Save Scene page

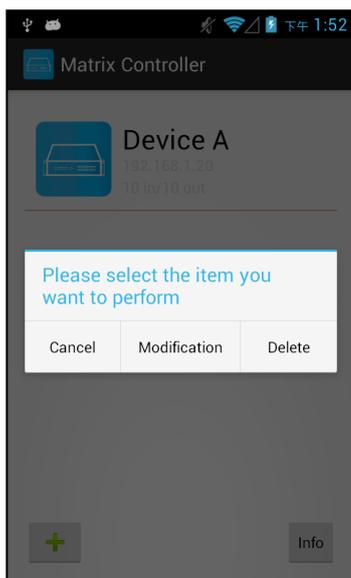


Touch the Scene column to show pop-up dialog

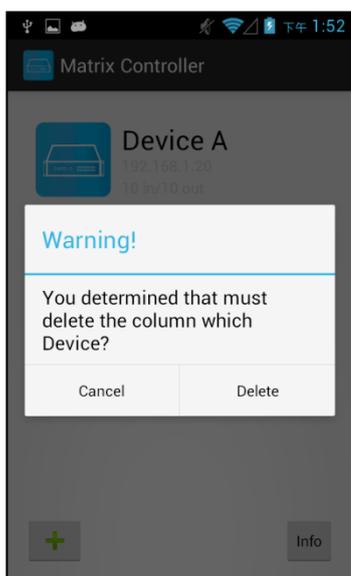


Touch 「 Save 」 to save current channels setting for all output
It will return to Save Scene page automatically.

Delete Matrix



Press the block of matrix in Controller page to show pop-up dialog then touch 「Delete」



Touch 「Delete」 to delete the matrix

9. iOS APP Function

APP name: Matrix Controller



System Requirement

iOS 7.1 and up

Size: 2.3M

Language: English, Traditional Chinese, Simplified Chinese

iTunes Download Link

<https://itunes.apple.com/us/app/matrix-control/id904487754?l=zh&ls=1&mt=8>

iTunes Download QR code



System Setting

Connect mobile phone to Wi-Fi and set the IP/ subnet mask same with matrix network segment

Default IP address of 10 by 10 matrix is 192.168.0.10

Default IP address of 4 by 4 matrix is 192.168.0.200

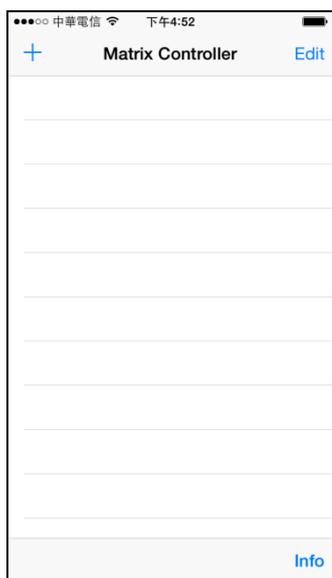
Default subnet mask is 255.255.255.0

You could also set to DHCP mode, please refer user manual

There are two ways to get the IP address of matrix:

1. Use APP function: Scan Device to get the IP address.
2. Use panel button or IR remote control by press [MENU], select to [ETHERNET] function and press [ENTER] to enter [IP Address] function than press [ENTER], it will show IP Address in the LCD panel of matrix

Main Page



When first time enter the APP will see the main page

Bottom left 「+」 to add matrix

Bottom right 「Info」 to show information

Scan Device

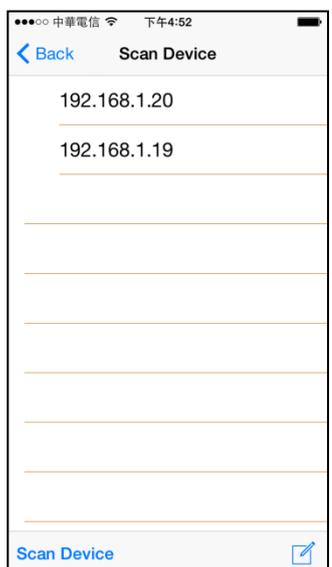


Touch 「+」 button at main screen to enter 「Scan Device」 page

Touch bottom left 「Scan Device」 to start scan

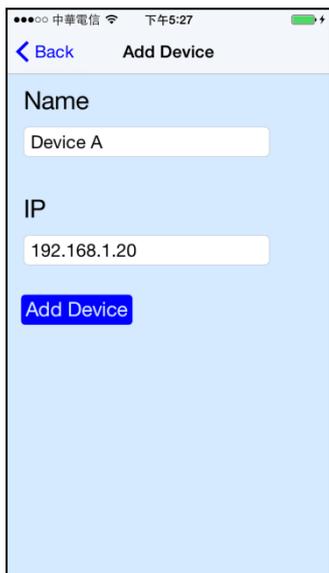
Touch bottom right pen icon to input the IP address manually

Add Matrix



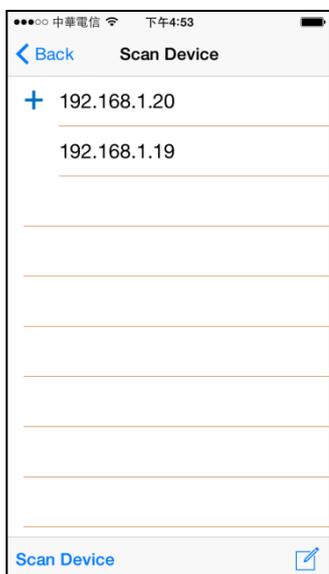
After scanning it will show all matrixes in the list

Touch the IP in list to enter 「Add Device」 page

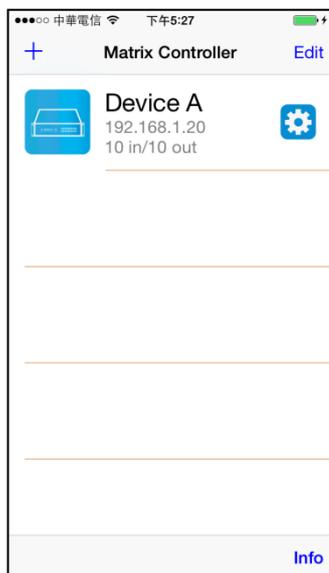


Enter the name of matrix then touch 「Add Device」 to finish setting

Notice : Name should be unique, not allow duplicate

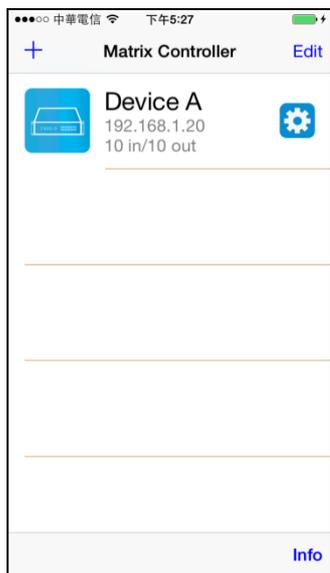


It will show 「+」 icon in front of the IP address when finished

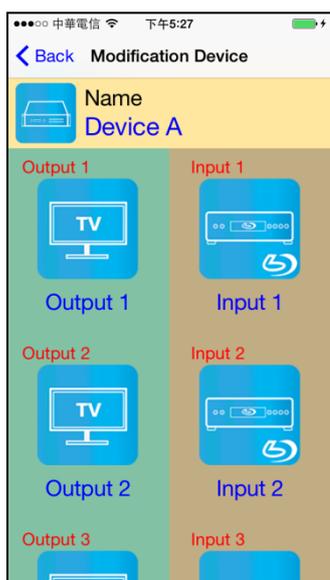


Return to main screen you will see the matrix which just add

Modify Device



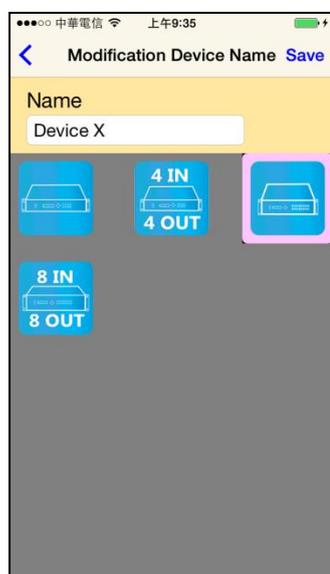
Touch the gear icon to enter Modification page



Yellow block shows matrix name and icon

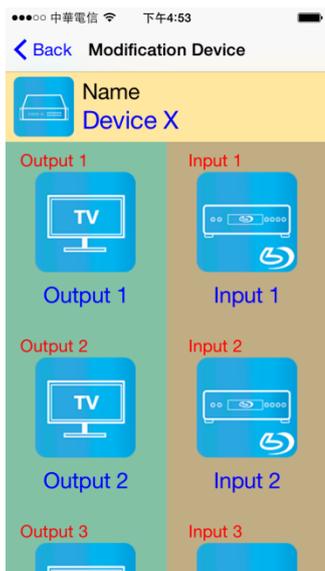
Green block shows name and icon of output devices

Brown block shows name and icon of input devices



Touch yellow block to modify matrix name and icon

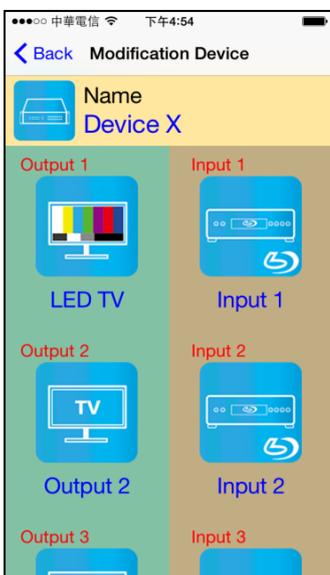
Input the name and select the icon you prefer then touch 「Save」 to finish



Return to Modification page you will see the matrix have been changed



Touch green block to modify output name and icon
Input the name and select the icon you prefer then touch 「 Save 」 to finish



Return to Modification page you will see the output have been changed

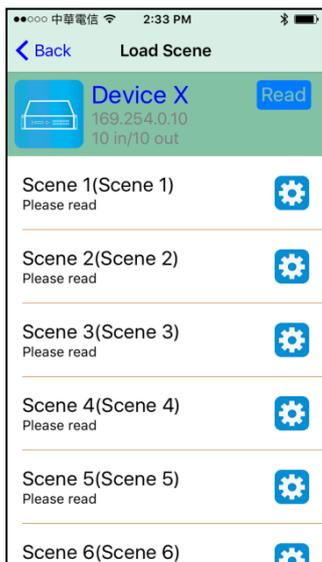


Touch brown block to modify input name and icon
Input the name and select the icon you prefer then touch 「Save」 to finish

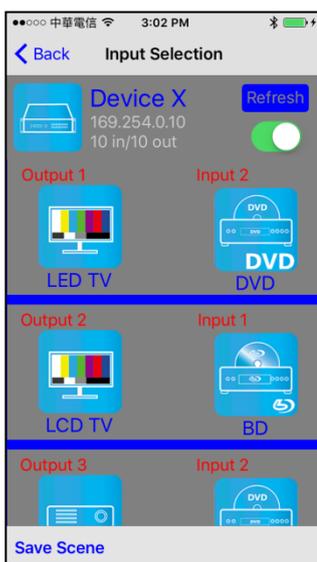


Return to Modification page you will see the input have been changed

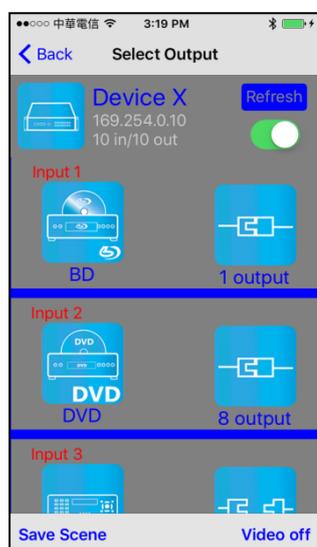
Channel Switching mode (load scene, input selection, output selection)



Click device name in list to enter load scene page



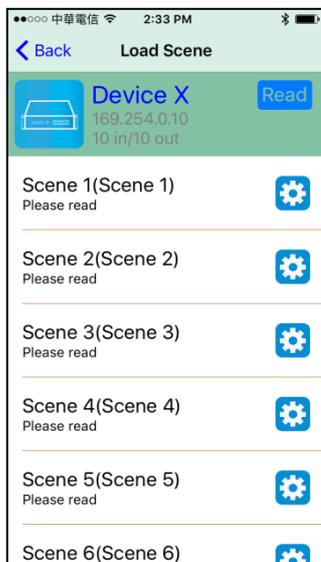
Slide right from load scene page to enter input selection mode (as before)



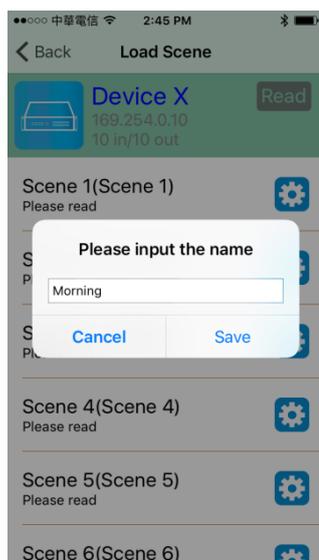
Slide left from load scene page to enter output selection mode (support multiple selection)

Load scene

Modify scene name



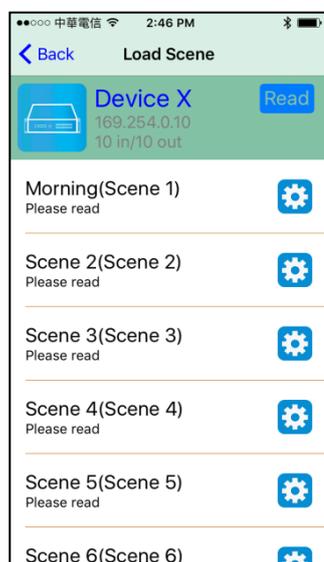
Touch the gear icon to enter modify scene name



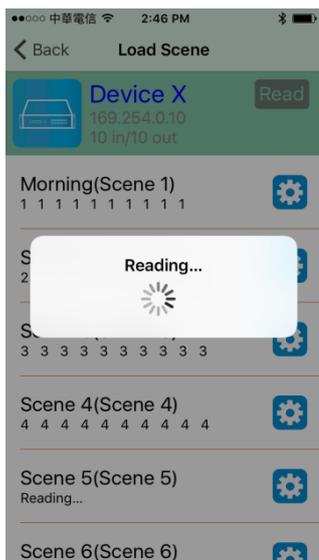
After modification touch 「Save」 to save scene name
It will return to Load Scene page automatically.

Notice : Name should be unique, not allow duplicate or empty

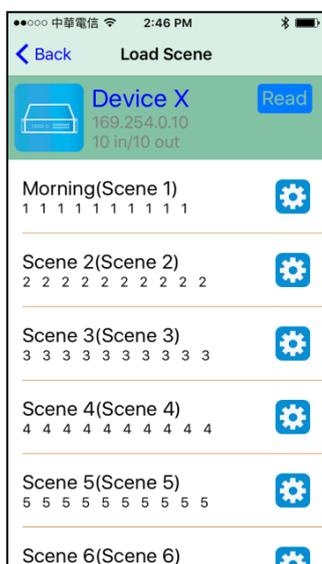
Read scene status



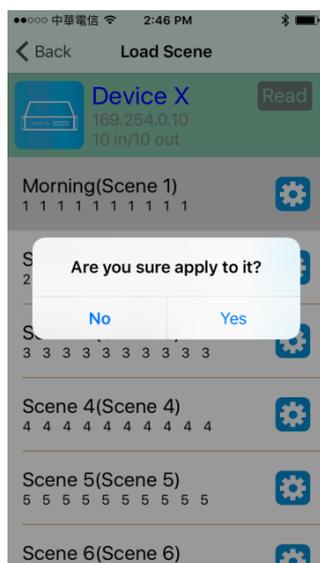
Touch top right 「Read」 to renew the scene status



It will show pop-up message 「Reading...」
After reading it will refresh scene status



Touch the column name to show pop-up dialog



Touch 「Yes」 to apply scene

Input Selection Mode



Top right 「Refresh」 to renew the status of matrix
Below 「Refresh」 button to power on/off the matrix

The block under device are Output 1~ Output 10
(4 by 4 matrix only shows Output 1~Output 4)

Left side shows output device name

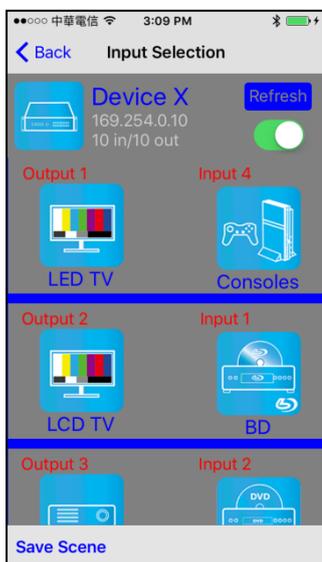
Right sideshows current input device name

Bottom left 「Save Scene」 to save the scenes



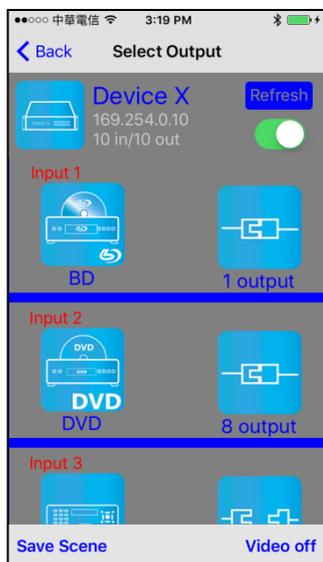
Touch output block to enter Channel Selection page

Touch input device to switch or ON/OFF icon to power on/off



It will return to Input Selection page after switching and you will see the input have been changed

Output Selection Mode



Top right 「Refresh」 to renew the status of matrix
Below 「Refresh」 button to power on/off the matrix

The blocks under device are Input 1~ Input 10
(4 by 4 matrix only shows Input 1~Input 4)

Left side shows input device name

Right side shows current output numbers of devices

Bottom left 「Save Scene」 to save the scenes

Bottom right 「Video off」 to turn off video output



Touch input block or 「Video off」 to enter Output Selection page

It will show connected output of current input

Bottom left 「Unselect all」 to clear all output box

Bottom center 「Select all」 to check all output box

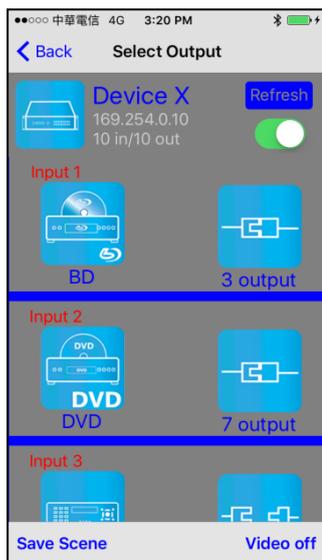
Bottom right 「Apply」 to apply output setting



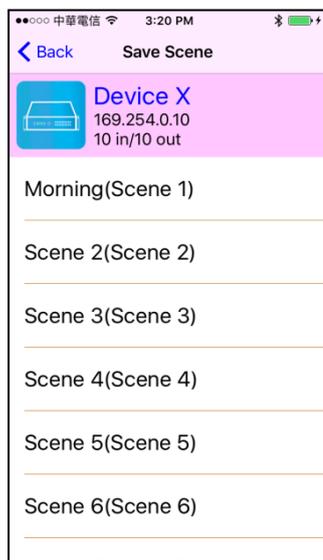
After touch 「Apply」 it will show pop-up message 「Apply...」

It will return to Input Selection page after switching and you will see the numbers of output have been changed

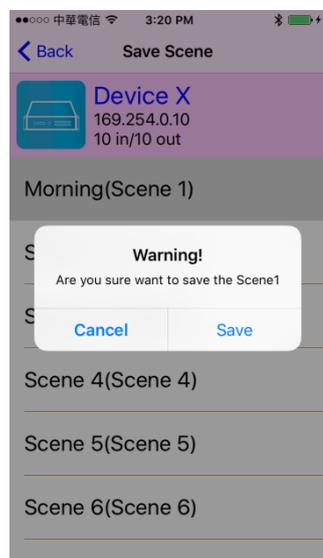
Save Scene



In Input or Output Selection page touch bottom left 「Save Scene」 to enter Save Scene page

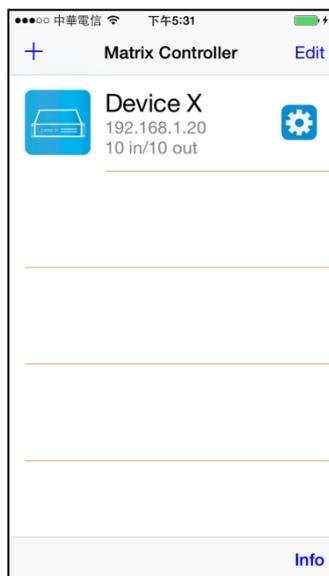


Touch the Scene column to show pop-up dialog

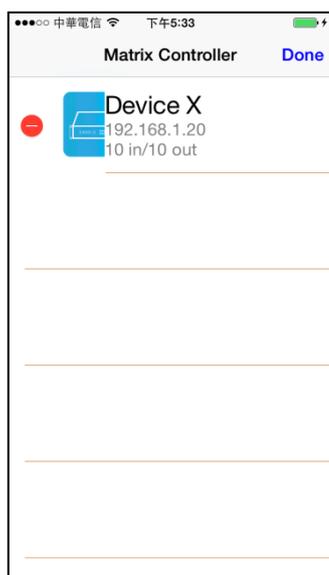


Touch 「Save」 to save current channels setting for all output
It will return to Save Scene page automatically.

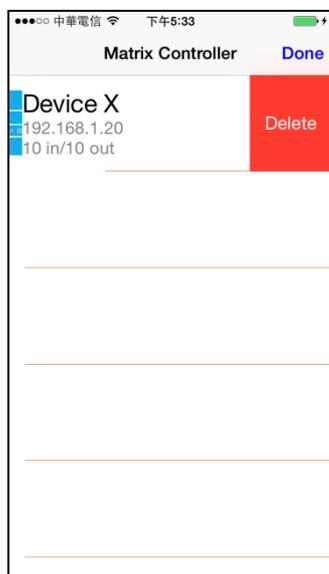
Delete Matrix



Touch top right 「Edit」 button to enter delete mode



Touch 「-」 button in the left of matrix



Touch 「Delete」 to delete the matrix
Touch top right 「Done」 to exit

Specification

| | |
|---------------------------|--|
| ITEM NO. | HS04M-4K6G |
| Support | |
| Compliance | HDMI 2.0, HDCP 2.2, DVI, 3D, HDR, Dolby Vision |
| Max. HDMI Resolution | 4K@60Hz 4:4:4 |
| Video Bandwidth | 18 Gbps |
| Audio Format | LPCM 7.1@192KHz, Dolby TrueHD, DTS-HD MA |
| RS232 Baud Rate | 9600bps |
| IR Support | 45°, 5M |
| Ports & Interfaces | |
| Video Input | 4 x HDMI Type A |
| Video Output | 4 x HDMI Type A |
| Audio Output | 4 x SPDIF |
| Ethernet Interface | 1 x RJ45 |
| RS232 Interface (Console) | 1 x DB9 Female |
| IR Interface | 1 x (3.5mm) Phone Jack |
| Power | |
| Power Supply | DC 12V 4.2A |
| Power Consumption | 2.8A |
| Ambient Temperature | |
| Operation | 0 to 55°C |
| Storage | -20 to 85°C |
| Humidity | up to 95% |
| Physical Characteristics | |
| Dimensions | 483 x 184 x 44mm |
| Weight | 2200g |