

HDMI Matrix Switcher

# User Manual

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Model : H4X4-4K6G

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



## Introduction

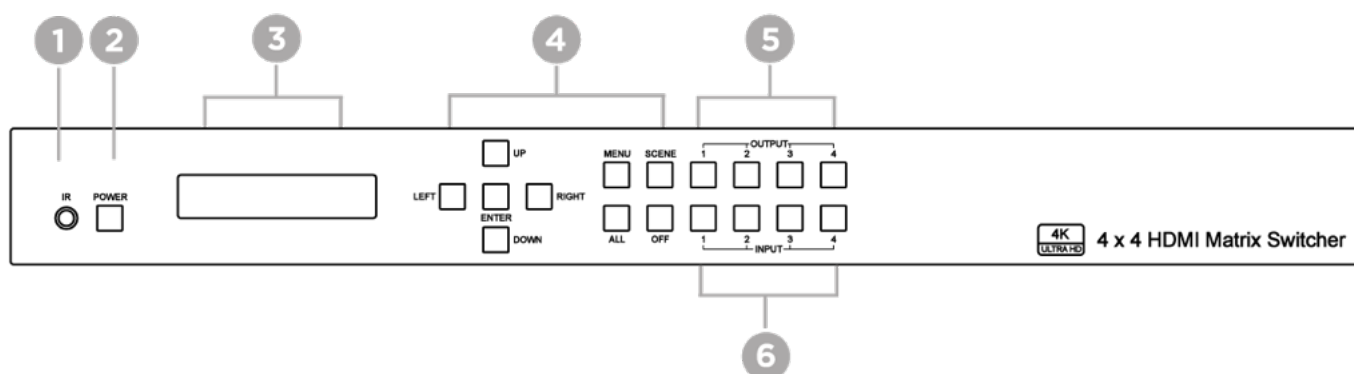
H4X4-4K6G is a 4 input 4 output HDMI matrix switch that allows you to route 4 Hi-res HDMI sources to 4 HDMI displays. Moreover, the HDMI audio extraction function allows you to integrate with your existing premium audio equipment to have superior audiovisual experience.

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

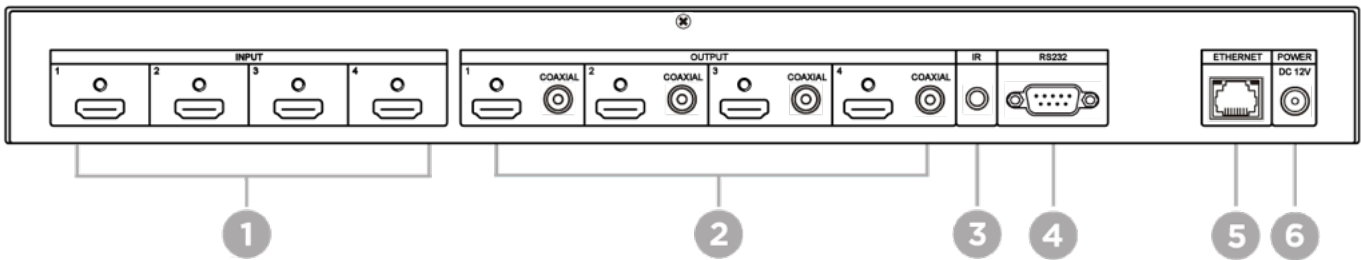
- Resolution up to 4K@60Hz 4:4:4.
- Supports ARC (Audio Return Channel).
- Supports HDMI audio extraction via S/PDIF coaxial output.
- Supports cable locks on each HDMI input & output ports.
- Built-in LCM panel and LED indications for checking the status of all connected devices.
- Rack mountable (1U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

### 1.0 H4X4-4K6G Panel View



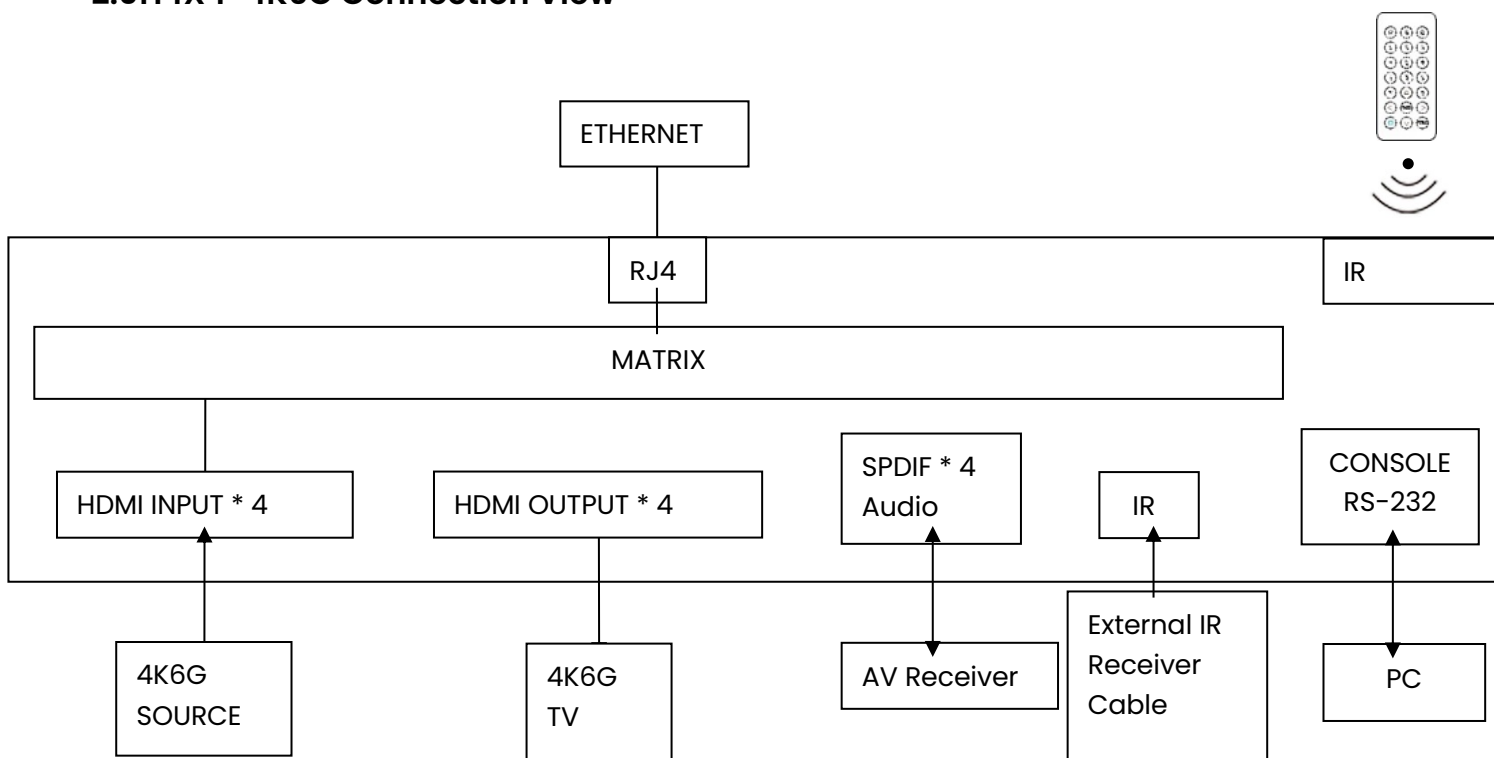
Item	Function	LED Status	Description
1	IR Receiver	N/A	Receiving IR remote signal
2	POWER	Blue ON	Power ON
		Red ON	Standby
3	LCM Display	N/A	Show status and menu function
4	UP	N/A	Move menu function up in LCM
	DOWN		Move menu function down in LCM
	LEFT		Move menu function left in LCM
	RIGHT		Move menu 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>		

## 2.0H4X4-4K6G Connection View



### 3.0 LCM Panel Function

#### Power on Main Screen

4 X 4 HDMI MATRIX Version V1.00
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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

## 4.0 LCM 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

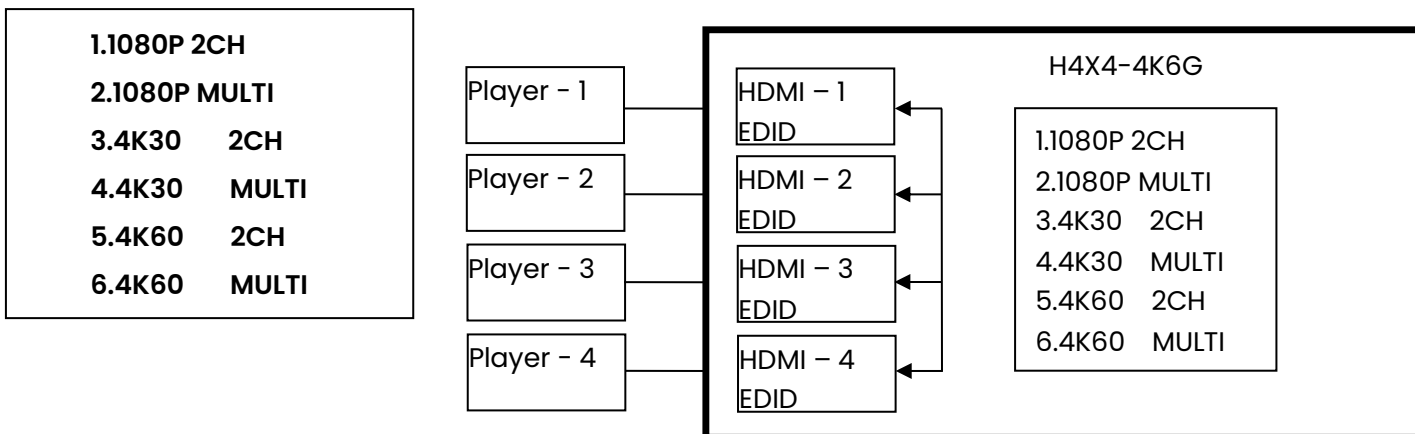
### EDID: (Default: LPCM-2CH)

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

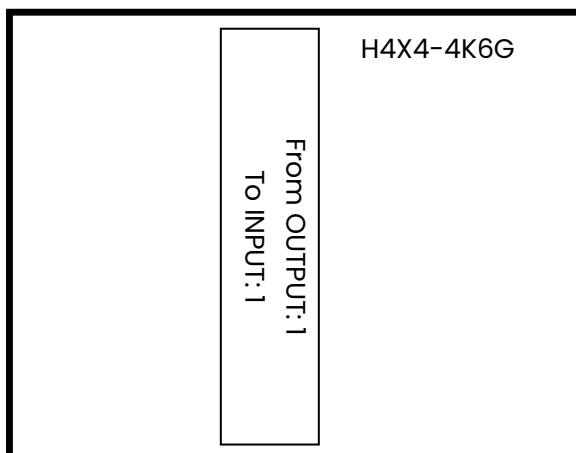
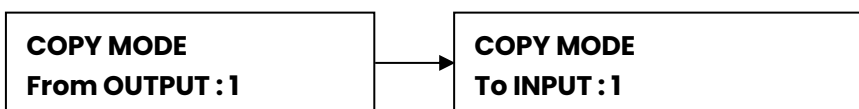
This mode supports video resolution up to 4K 60Hz, audio format support LPCM-2CH · LPCM-7.1 · AC3 · DTS. After enter BUILD-IN MODE menu, press UP or DOWN key to select then press ENTER to confirm setting.

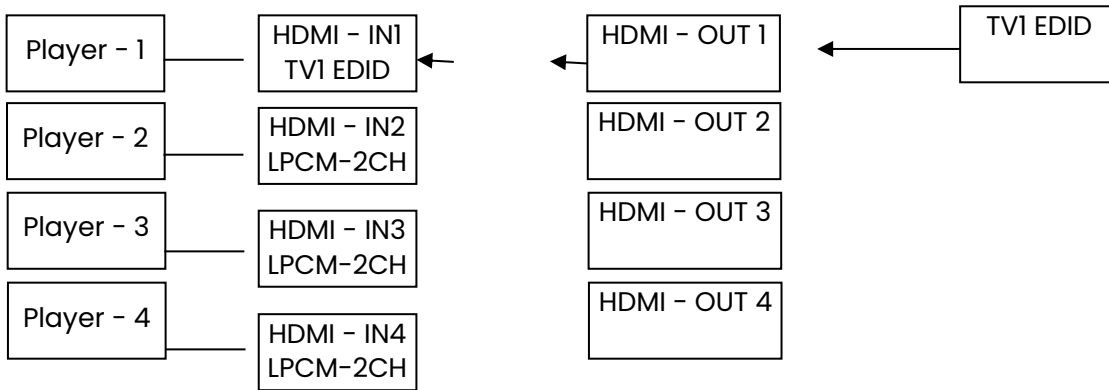


### 4.7 COPY MODE

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
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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.

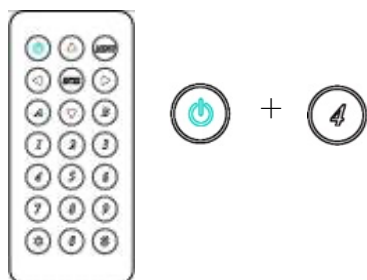
When finish REMOTE ID setting, MATRIX remote control IR01 must also set the same ID in order to operation in normal.



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 H4X4-4K6G 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

## System reset

After holding down the power button on the front panel and then powering on, until the power button lights up → Wait for the LCM panel screen to display "LCM KEYPAD" → Release the power button, press the "ENTER" key → Wait for the LCM panel screen to display "RESTORE EDID EDID WRITE OK" → Press the "ENTER" key again → The system reset is completed, the power light turns red and shuts down.















Note: After resetting, the EDID, INPUT/OUTPUT switching status and scene settings will be cleared.

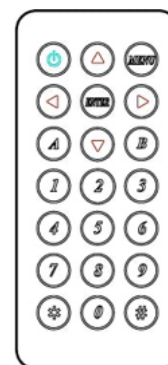
**SS**







## 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 on/Standby
	LEFT
	RIGHT
	UP
	DOWN
	ENTER
	MENU
	ALL
	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 H4X4-4K6G Matrix.

## 6.0 Remote Control Function : ( CONSOLE )

H4X4-4K6G 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 TCP/IP(Winsock)

Default IP address: 192.168.0.10, Port:47011

## Computer Command Code

Command + △(Space) + Parameter + Enter (0D0A)

General Setup	
[Command]	[Description]
POWER△[00]	Set the matrix power OFF
POWER△[01]	Set the matrix power ON
TX01△[00]	Set HDMI OUT 1 to OFF
TX01△[01]	Set HDMI IN 1 to HDMI OUT 1
TX02△[02]	Set HDMI IN 2 to HDMI OUT 2
TX03△[03]	Set HDMI IN 3 to HDMI OUT 3
TX04△[04]	Set HDMI IN 4 to HDMI OUT 4
AUDIO01△[p]	Set ARC/HDMI IN to AUDIO 1
AUDIO02△[p]	Set ARC/HDMI IN to AUDIO 2
AUDIO03△[p]	Set ARC/HDMI IN to AUDIO 3
AUDIO04△[p]	Set ARC/HDMI IN to AUDIO 4
Save & Load Scene:	
[Command]	[Description]
SAVE△[a]	Save current scene (including ARC), entering commend to save the scene
LOAD△[a]	Load saved scene (0~9), entering commend to load scene, Ex: LOAD + △(Space) + 3 + [Enter] (Load Scene 3)
LOCK△[d]	Lock Panel & IR Remote Control, lock(00), unlock(01)
IRID△[i]	Set IR Remote ID (0~9)
DHCP△[d]	DHCP Client ON(01)/ OFF(00)
IP_ADDRESS△[n.n.n.n]	Set IP Address (0~255)
SUBNET_MASK△[n.n.n.n]	Set subnet Mask (0~255)
GATEWAY△[n.n.n.n]	Set Gateway (0~255)
MEDIA_TYPE△[m]	Set Media Type (Network Speed Select) 00=auto, 01=10M, 02=100M
MAC_FILTER△[d]	Mac Filter ON/OFF
STATUS	Show Connection Status
VERSION	Show Firmware Version
HELP	Help

[Symbol]	[Parameter]
a	01~04
d	00=OFF, 01=ON
i	00~09=0~9
m	00=auto, 01=10M, 02=100M
n	0~255

Example:

TX1△[04Enter]	To route input 4 to output 1
POWER△00Enter	To put in standby the matrix

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

HDMI 2.0 4x4 MATRIX

SWITCH SETTING

MATRIX-01

Power      Output      Input

Power On ▾      Output 1 ▾      Input 1 ▾      Reload

Output 2 ▾      Input 2 ▾      Advanced

Output 3 ▾      Input 3 ▾

Output 4 ▾      Input 4 ▾      Apply

All port      NA ▾

Version V1.00

- **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

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

MAC Filter	Enable
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
<input type="button" value="Save1"/>	<input type="button" value="Load1"/>	<input type="text" value="02_01_04_01"/>			
<input type="button" value="Save2"/>	<input type="button" value="Load2"/>	<input type="text" value="02_01_04_01"/>			
<input type="button" value="Save3"/>	<input type="button" value="Load3"/>	<input type="text" value="01_02_03_04"/>			
<input type="button" value="Save4"/>	<input type="button" value="Load4"/>	<input type="text" value="01_02_03_04"/>			
<input type="button" value="Save5"/>	<input type="button" value="Load5"/>	<input type="text" value="01_02_03_04"/>			
<input type="button" value="Save6"/>	<input type="button" value="Load6"/>	<input type="text" value="01_02_03_04"/>			
<input type="button" value="Save7"/>	<input type="button" value="Load7"/>	<input type="text" value="01_02_03_04"/>			
<input type="button" value="Save8"/>	<input type="button" value="Load8"/>	<input type="text" value="01_02_03_04"/>			
<input type="button" value="Save9"/>	<input type="button" value="Load9"/>	<input type="text" value="01_02_03_04"/>			
<input type="button" value="Save10"/>	<input type="button" value="Load10"/>	<input type="text" value="01_02_03_04"/>			
<input type="button" value="Back"/>		<input type="button" value="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**

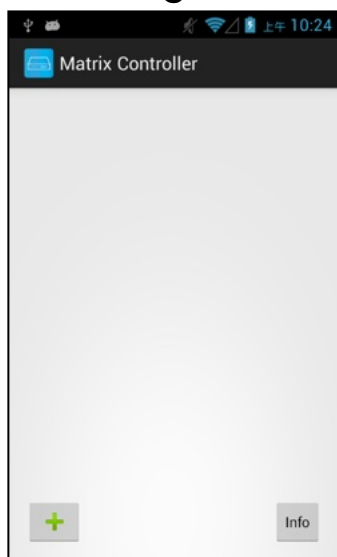
Default subnet mask is 255.255.255.0

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

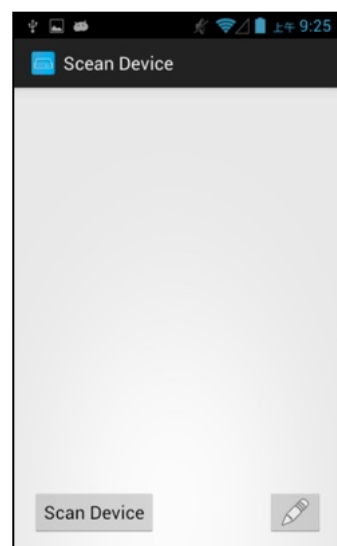
## Main Page



When first time enter the APP will see the main page

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

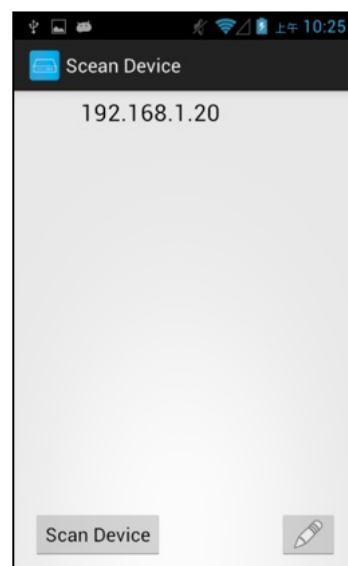
## Scan Device



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

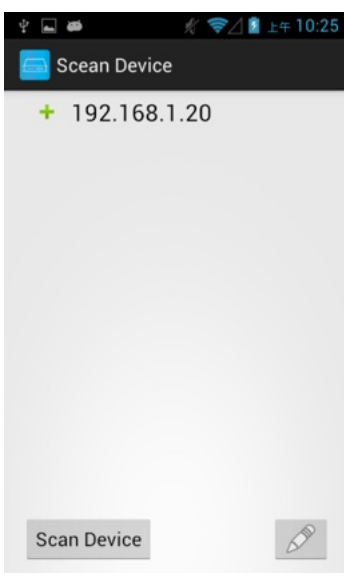


After scanning it will show all matrixes in the list  
Touch the IP in list to enter 「Add Device」 page

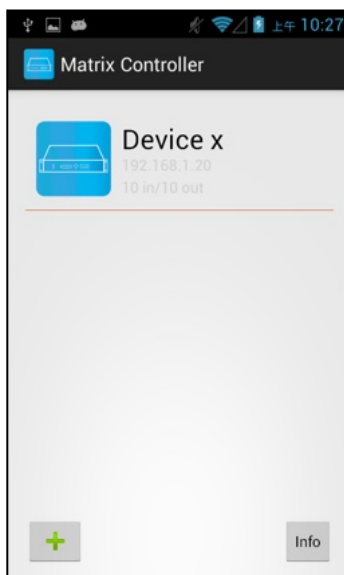
Enter the name of matrix then touch 「Add Device」 to finish setting  
**Notice : Name should be unique, not allow duplicate**



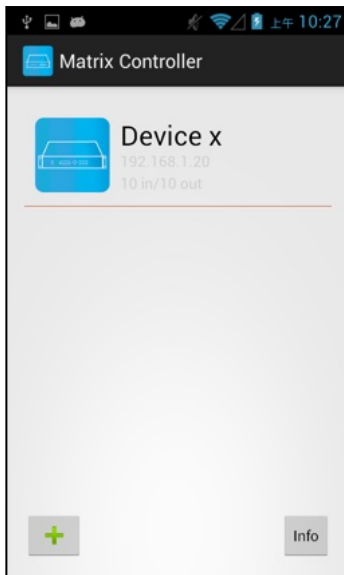
It will show 「+」 icon in front of the IP address when finished



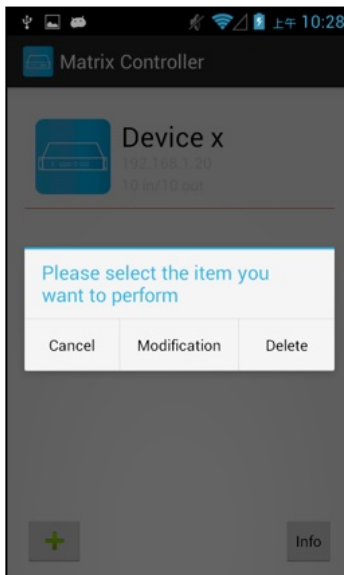
Return to main screen you will see the matrix which just add



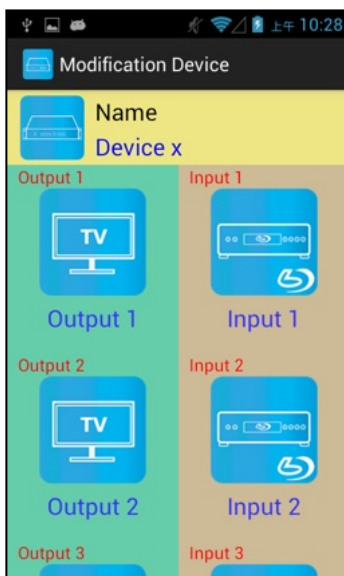
## Modify Device



Press the matrix name to show pop-up dialog



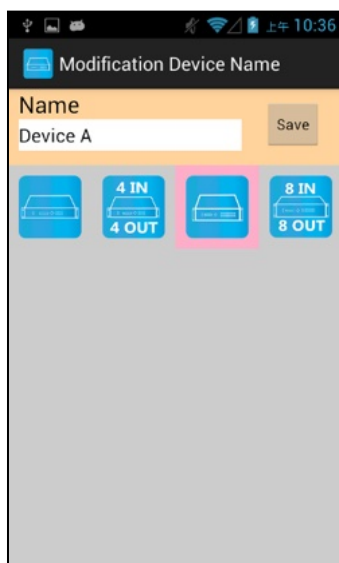
Touch 「Modification」 to enter modification page.



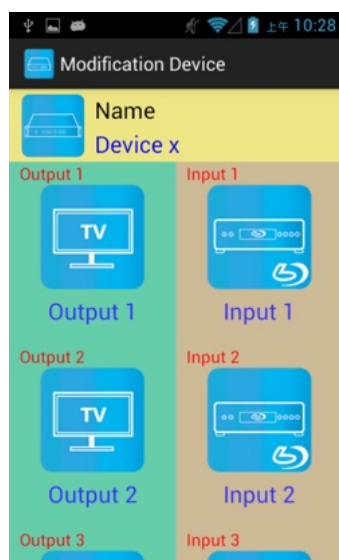
Yellow block shows matrix name and icon

Green block shows name and icon of output devices

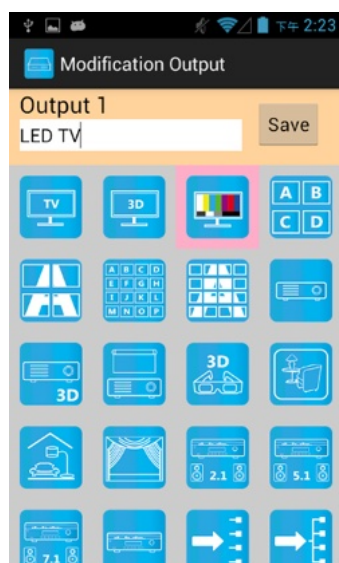
Brown block shows name and icon of input devices



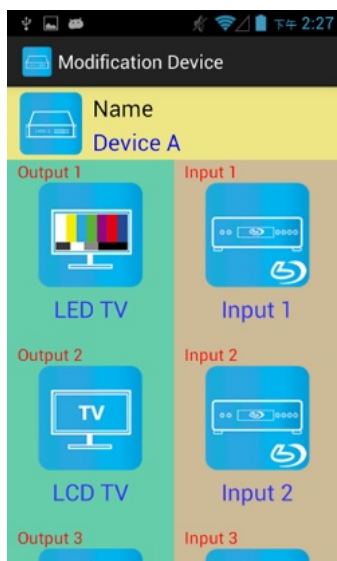
Touch yellow block to modify matrix name and icon  
Input the name and select the icon you prefer then touch 「Save」 to finish



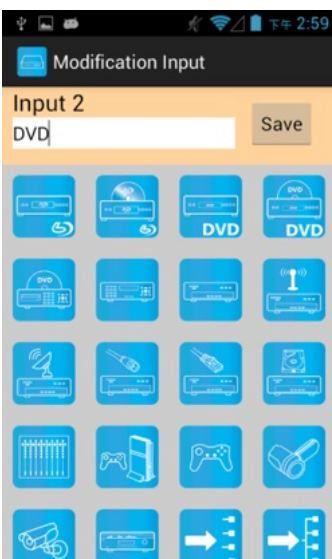
Return to Modification page you will see the matrix have been changed



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



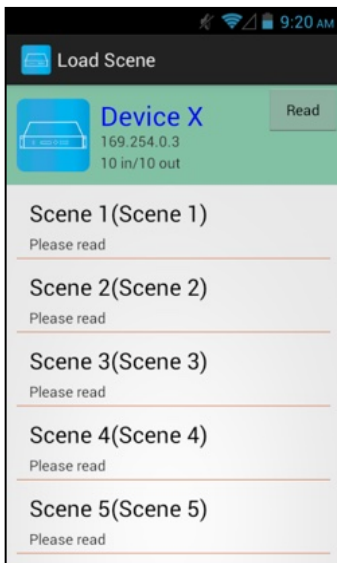
Touch brown block to modify input name and icon  
Input the name and select the icon you prefer then touch 「Save」 to finish



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)



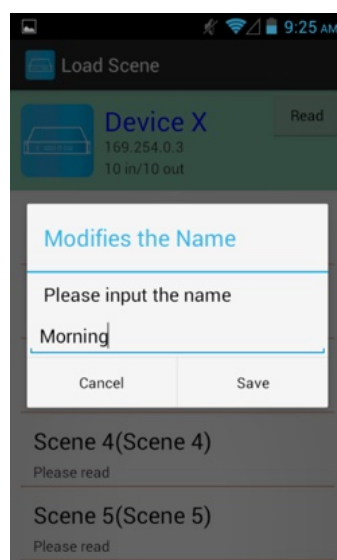
Slide left from load scene page to enter output selection mode (support multiple selection)

## Load scene

### Modify scene name



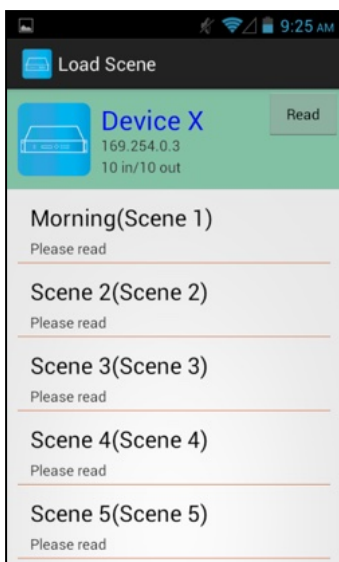
Press scene column to show pop-up dialog to modify scene name



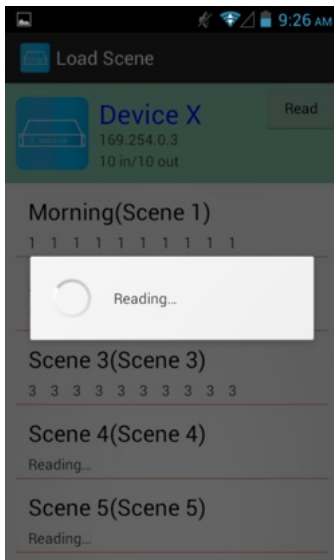
After modification touch 「Save」 to save scene name  
It will return to Load Scene page automatically.

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

### Read scene status



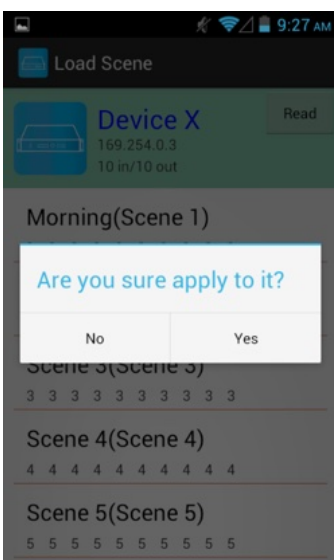
Touch top right 「Read」 to renew the scene status



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 side shows 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

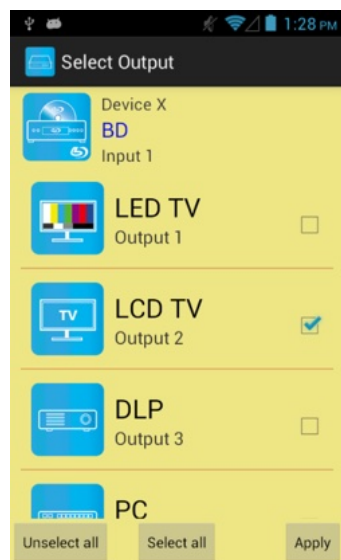
The blocks under device are Input 1~ Input 10  
(4 by 4 matrix only shows Input 1~Input 4)

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



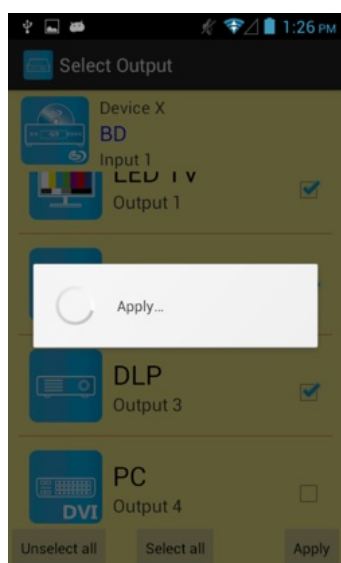
Touch input block or 「Video off」 to enter Output Selection page

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

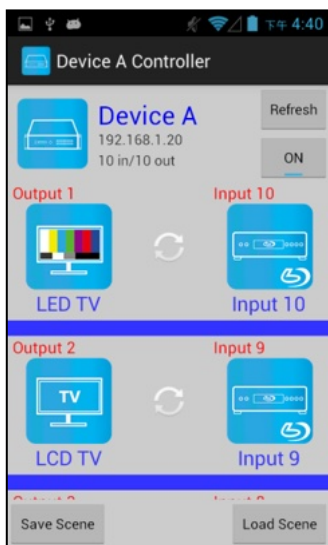
Bottom right 「Apply」 to apply output setting



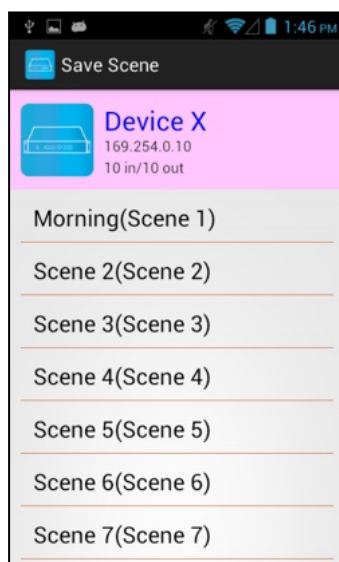
After touch 「Apply」 it will show pop-up message 「Apply...」

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

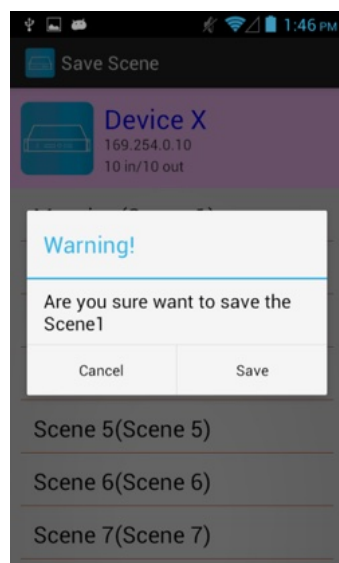
## Save Scene



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

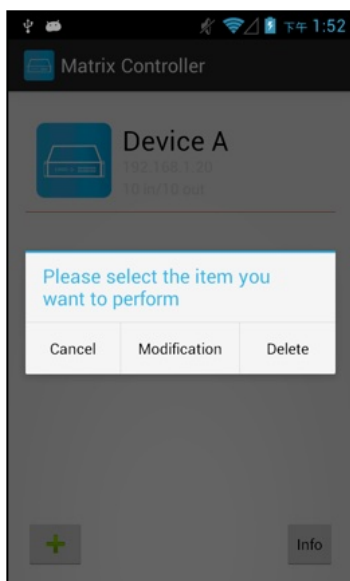


Touch the Scene column to show pop-up dialog

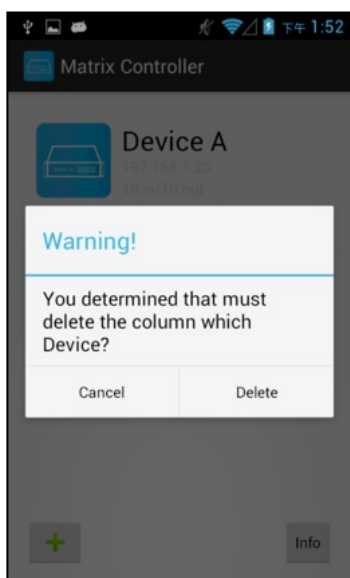


Touch 「Save」 to save current channels setting for all output  
It will return to Save Scene page automatically.

## 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

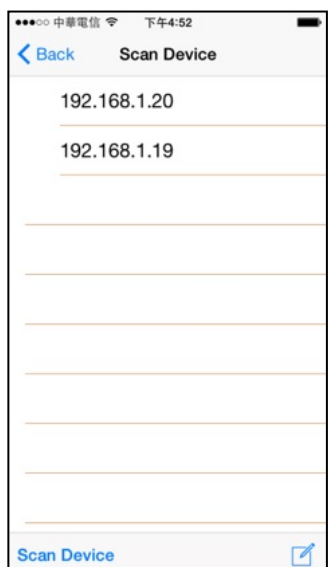


Touch 「+」 button at main screen to enter 「Scan Device」 page

Touch bottom left 「Scan Device」 to start scan

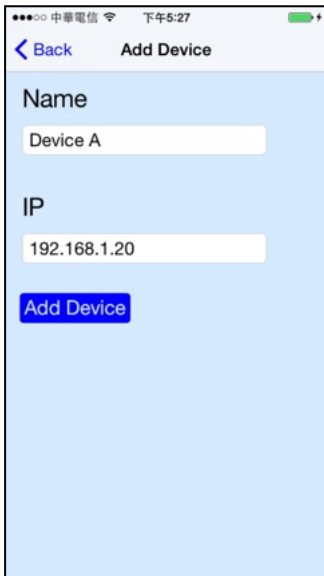
Touch bottom right pen icon to input the IP address manually

## Add Matrix



After scanning it will show all matrixes in the list

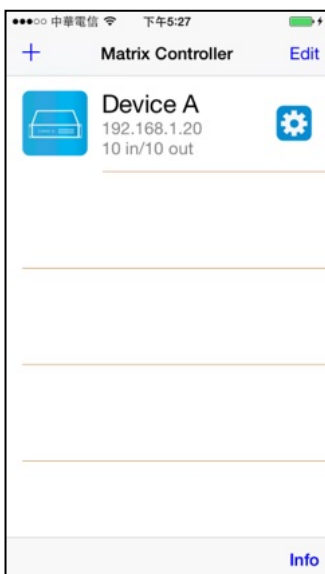
Touch the IP in list to enter 「Add Device」 page



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

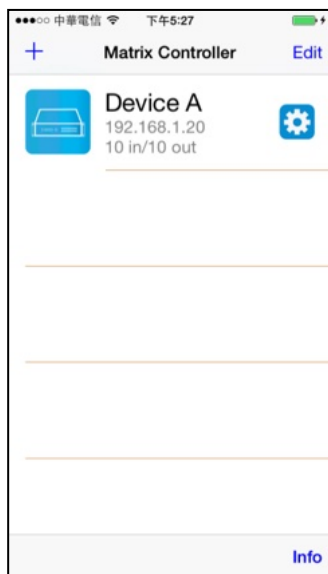


It will show 「+」 icon in front of the IP address when finished

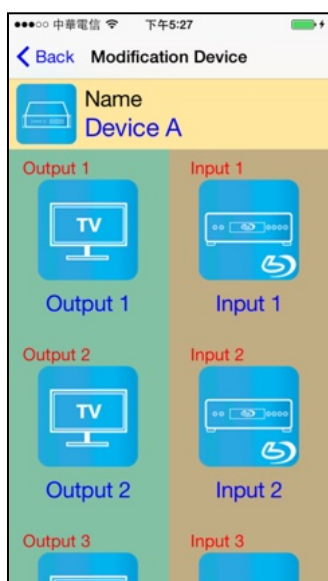


Return to main screen you will see the matrix which just add

## Modify Device



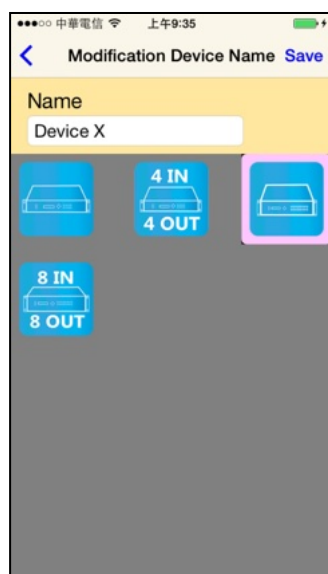
Touch the gear icon to enter Modification page



Yellow block shows matrix name and icon

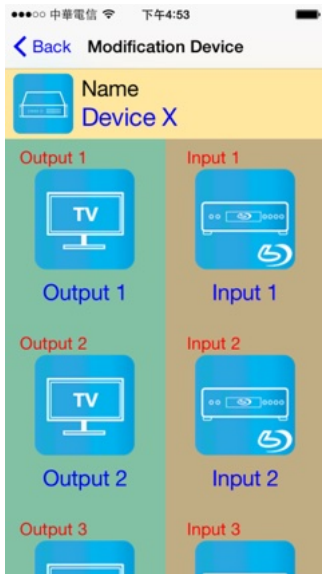
Green block shows name and icon of output devices

Brown block shows name and icon of input devices



Touch yellow block to modify matrix name and icon

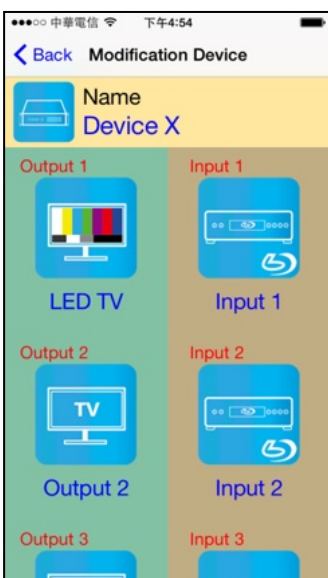
Input the name and select the icon you prefer then touch 「Save」 to finish



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



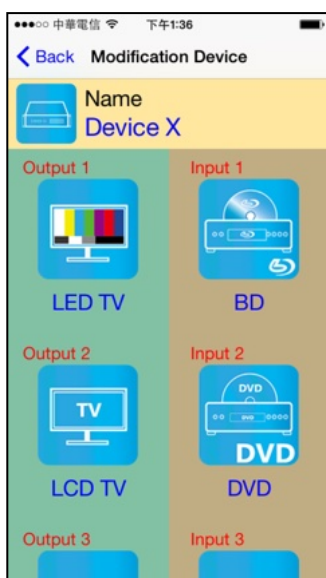
Touch green block to modify output name and icon  
Input the name and select the icon you prefer then touch 「Save」 to finish



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

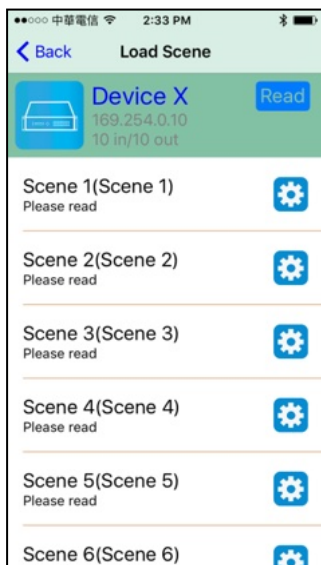


Touch brown block to modify input name and icon  
Input the name and select the icon you prefer then touch 「Save」 to finish



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

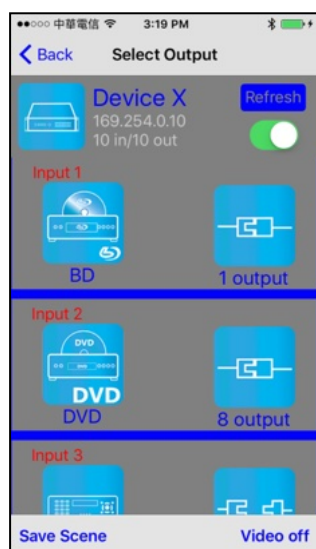
## Channel Switching mode (load scene, input selection, output selection)



Click device name in list to enter load scene page

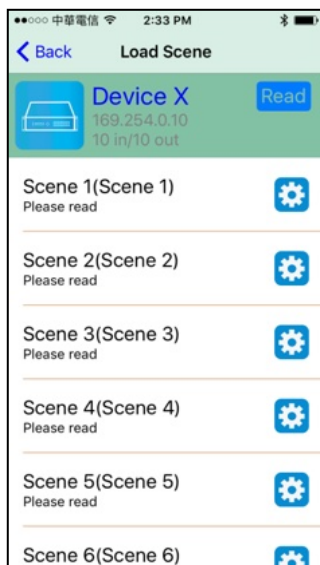


Slide right from load scene page to enter input selection mode (as before)

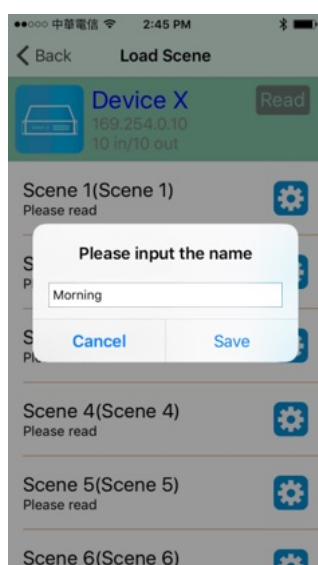


Slide left from load scene page to enter output selection mode (support multiple selection)

## Load scene Modify scene name



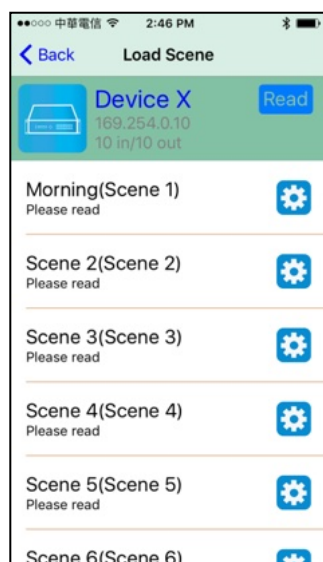
Touch the gear icon to enter modify scene name



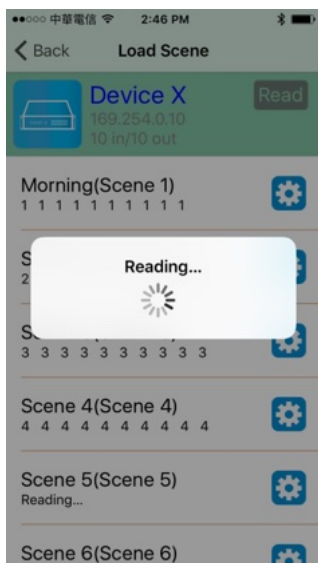
After modification touch 「Save」 to save scene name  
It will return to Load Scene page automatically.

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

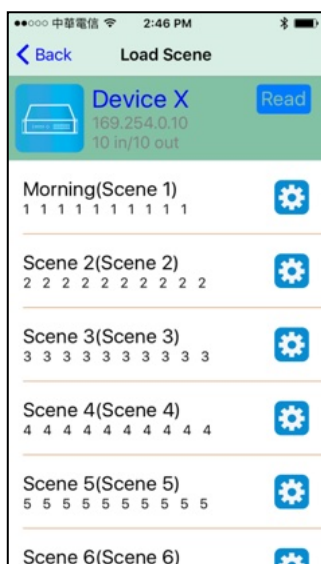
## Read scene status



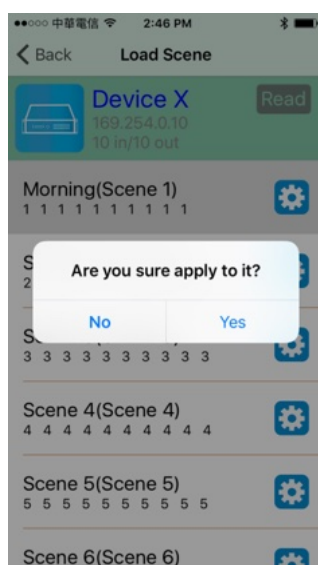
Touch top right 「Read」 to renew the scene status



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)

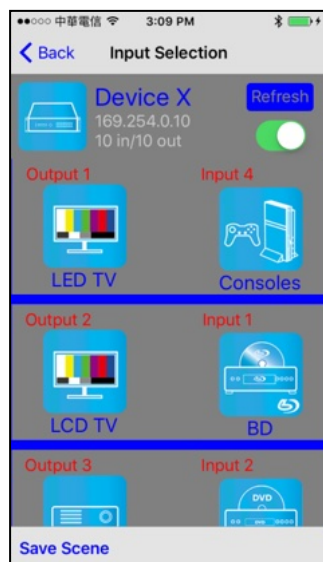
Left side shows output device name  
Right sideshows current input device name

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

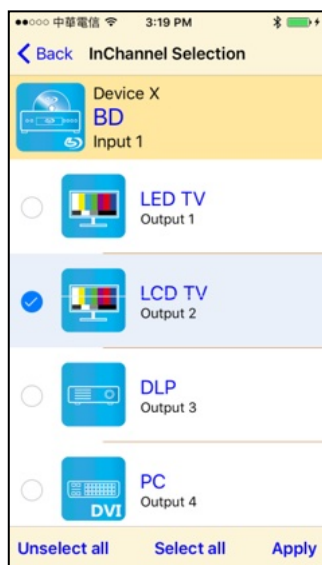
The blocks under device are Input 1~ Input 10  
(4 by 4 matrix only shows Input 1~Input 4)

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



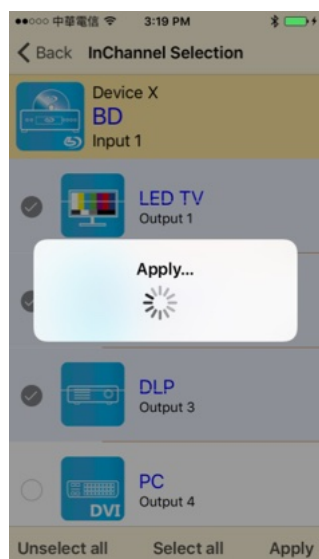
Touch input block or 「Video off」 to enter Output Selection page

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



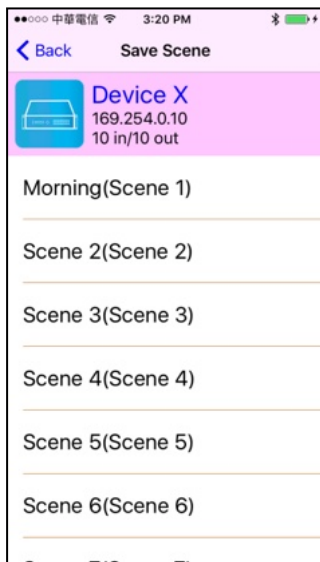
After touch 「Apply」 it will show pop-up message 「Apply...」

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

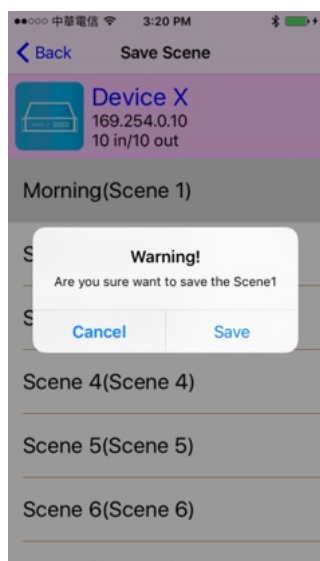
## Save Scene



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

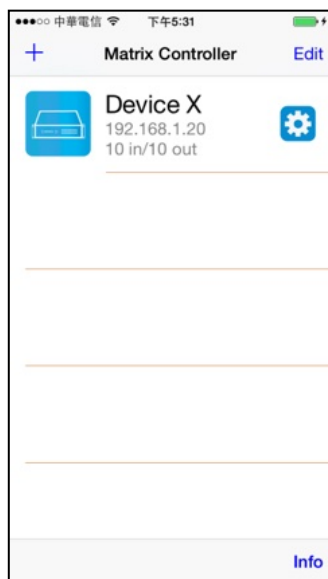


Touch the Scene column to show pop-up dialog

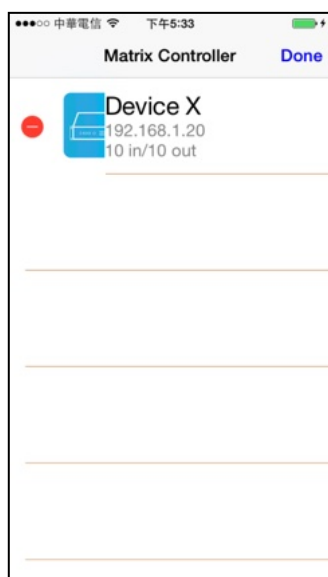


Touch 「Save」 to save current channels setting for all output  
It will return to Save Scene page automatically.

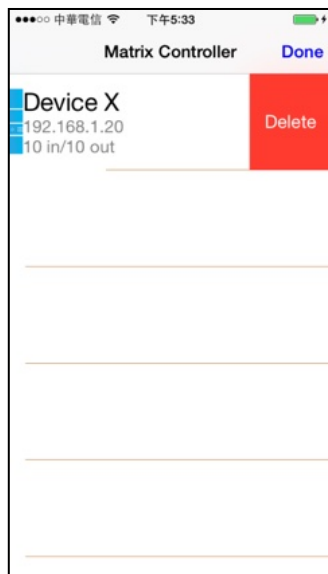
## Delete Matrix



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.	H4X4-4K6G
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	19" x 7.24" x .73" (483 x 184 x 44mm)
Weight	4.85lbs (2200g)