

HDMI Matrix Switcher

# User Manual

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Model : H10X10-4K6G

4K60Hz 10 x 10 HDMI Matrix Switcher Built in Audio Extractor



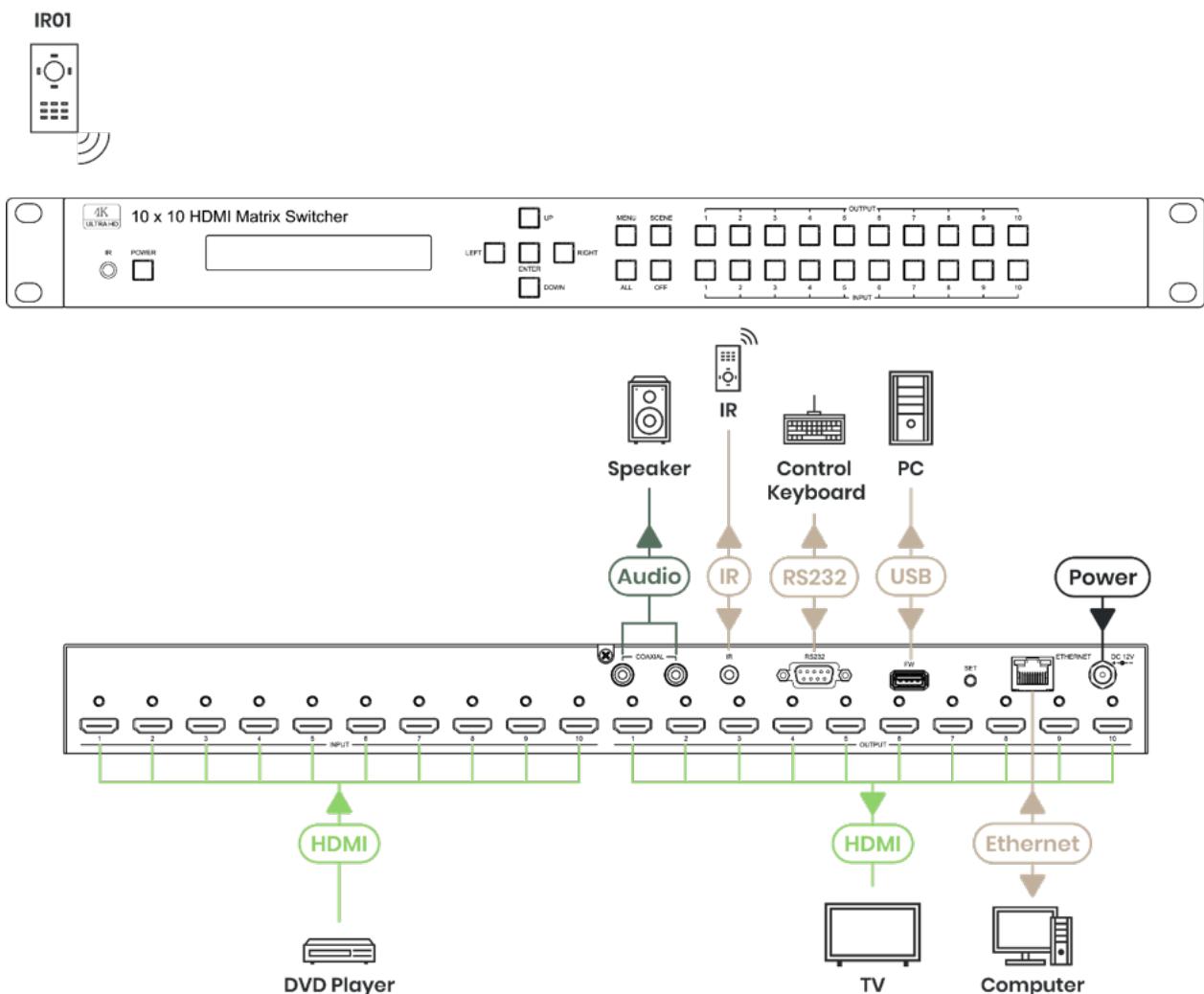
## Introduction

H10X10-4K6G is a 10 input 10 output HDMI matrix switch that can put 10 Hi-res HDMI sources on any of 10 HDMI displays. The HDMI audio extraction function allows you to integrate with your existing premium audio equipment to have superior audiovisual experience. 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.

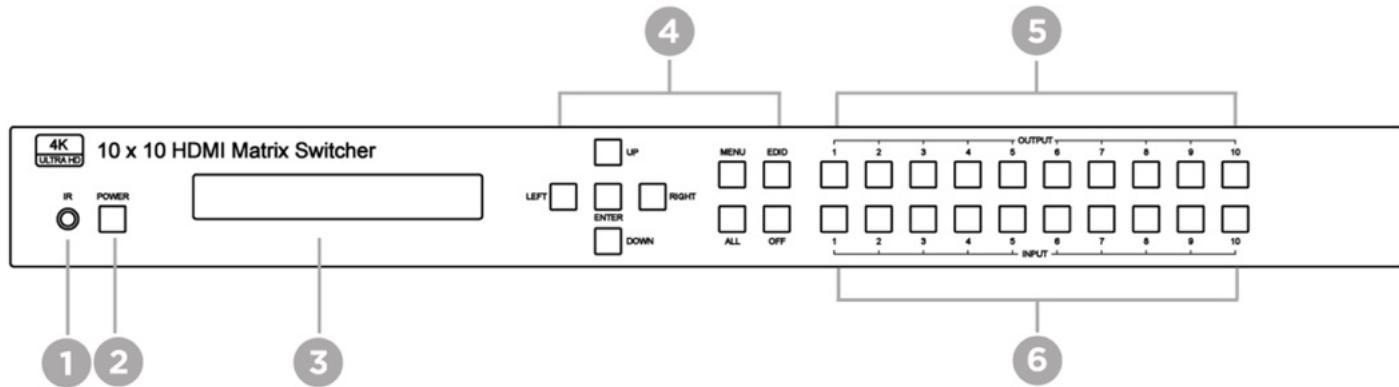
## Features

- 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, Web GUI, iOS/Android APP.

## Installation View

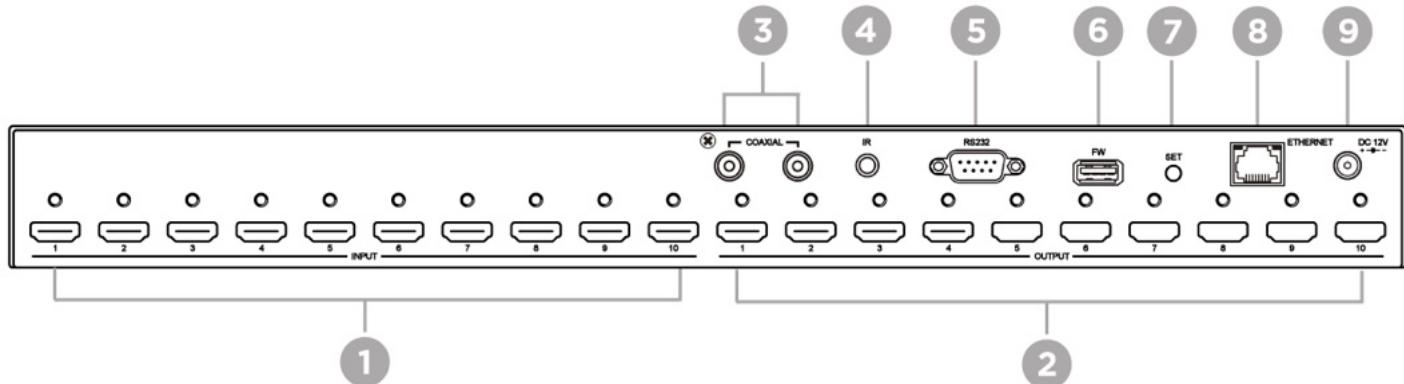


## Front Panel View



No.	Feature	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	Display operating status or Menu.
4	UP Button	N/A	Go up direction in Menu.
	DOWN Button		Go down direction in Menu.
	LEFT Button		Go left direction in Menu.
	RIGHT Button		Go right direction in Menu.
	ENTER Button		Execute selected function
5	MENU Button	Blue ON	Press to enter Menu or display current operating status Press and hold 3 seconds to enable/disable KEYLOCK
	SCENE Button		Save/Load scene
	ALL Button		Select all output
	OFF Button		Turn off select output
6	OUTPUT Buttons	Blue ON	Press these buttons to select the desired output Monitor connected
		OFF	No monitor connected
7	INPUT Buttons	Blue ON	Press these buttons to select the desired input Video input detected
		OFF	No video input

## Rear Panel View



1	INPUT HDMI	N/A	HDMI input port 1~10
2	OUTPUT HDMI	N/A	HDMI output port 1~10
3	SPDIF	N/A	SPDIF audio output port 1~2
4	IR	N/A	External IR receiver
5	CONSOLE	N/A	RS232 command control / Firmware update
6	FW	N/A	Firmware update
7	SET	N/A	
8	Ethernet (RJ45)	N/A	WEB control interface
9	DC JACK	N/A	Power input
Notice	* In standby mode, IR remote cannot control matrix but power on matrix only * Please press ENTER to execute any change of menu settings		

## Panel Function

### Power on Main Screen

HDMI 2.0 10X10 MATRIX  
Version V1.01

After power on, the main screen will show matrix name and version information.

The matrix will go back to main screen if no operations in 30 seconds

### Channel Switching

OUT 1 2 3 4 5 6 7 8 9 10  
IN 1 2 3 4 5 6 7 8 9 10

Press OUTPUT 1~10 to select HDMI output (multiple selections) then press INPUT 1~10 (single selection) then press ENTER to execute.

### SCENE Button

OUTPUT	→	SAVE
INPUT	→	LOAD

Press SCENE button then press INPUT 1 ~ 10 to load the pre-stored scenes, or press OUTPUT 1 ~ 10 to save the current channel settings to a total of 10 scenes then press ENTER to execute

#### ALL Button

OUT	1 2 3 4 5 6 7 8 9 10
IN	1 1 1 1 1 1 1 1 1 1

Press ALL button and the number on the second line of IN will flash. Press INPUT 1 ~ 10 to select input port or OFF button to turn off all outputs then press ENTER to execute.

#### OFF Button

OUT	1 2 3 4 5 6 7 8 9 10
IN	X X X X X X X X X X

Press OUTPUT 1 ~ 10 then press OFF to turn off the selected output, or ALL to turn off all outputs then press ENTER to execute.

#### Key Lock

KEYLOCK!
----------

Press MENU button for 10 seconds to enable/disable key lock function.

#### Main Menu

* 1 - SWITCH
2 - SCENE

Press MENU button to enter main menu

#### 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

### LCM Main MENU Function Operations

#### SWITCH : (Default: 1 2 3 4 5 6 7 8 9 10)

OUTPUT	1 2 3 4 5 6 7 8 9 10
INPUT	1 2 3 4 5 6 7 8 9 10

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 provides 10 sets of channel settings to fast reload for different application.

## SAVE

SAV	1H2H 3 4 5 6 7 8 9 10
#01	3 2 3 4 5 6 7 8 9 10

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.

## LOAD

LOD	1A2H 3 4 5 6 7 8 9 10
#01	3 1 3 4 5 5 5 5 5 5

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 1~0 to select port number 1~10 to load.

## 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.

1.1080P 2CH
2.1080P MULTI
3.4K30 2CH
4.4K30 MULTI
5.4K60 2CH
6.4K60 MULTI

Player - 1
Player - 2
Player - 3
Player - 4

HDMI - 1 EDID
HDMI - 2 EDID
HDMI - 3 EDID
HDMI - 4 EDID

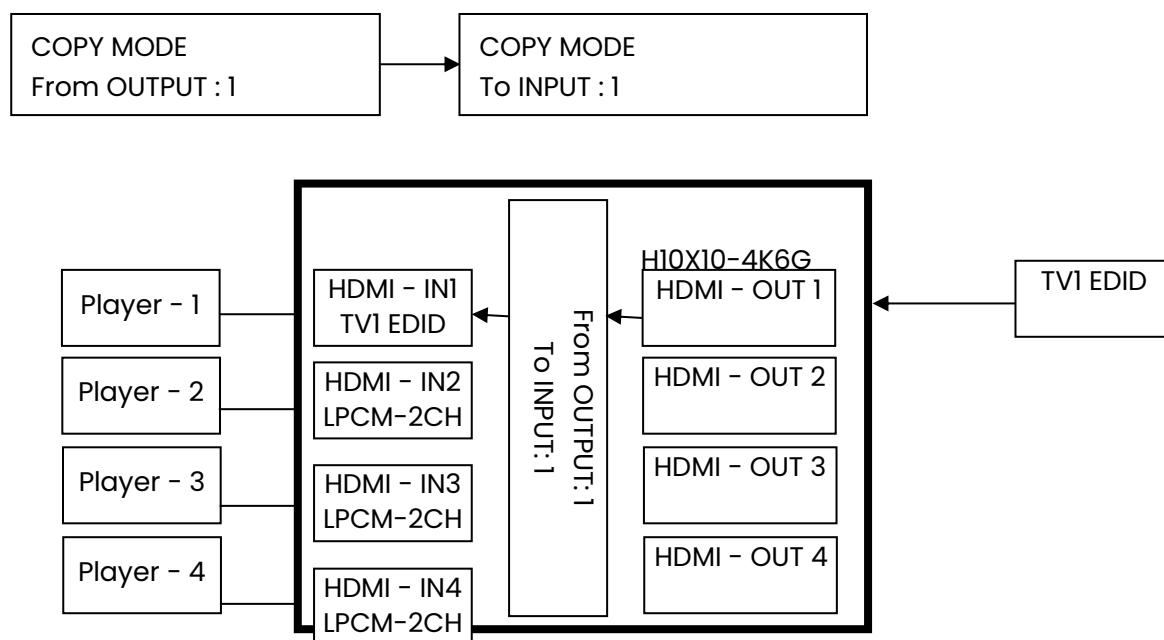
H10X10-4K6G

1.1080P 2CH
2.1080P MULTI
3.4K30 2CH
4.4K30 MULTI
5.4K60 2CH
6.4K60 MULTI

## 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 using 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 is not connected with monitor it will show "NO OUTX HPD" and return to upper menu when you press ENTER.**



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

## Ethernet

This function can change the network settings of the matrix. 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

**IP Address: (Default: 192.168.0.10)**

IP Address
192.168. 0.10

This function can be setup as 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 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 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

DHCP Client
Enable

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 needs to 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

Media Type
AUTO

Media Type
10M

This function can be setup as 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 ENABLE
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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)**

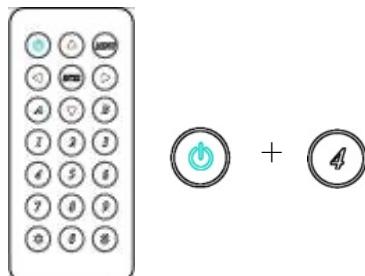
This function must be set to match the Matrix remote control IR01 with the matrix itself. A conflict with other devices remote control is avoided.

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 finished REMOTE ID setting, MATRIX remote control IR01 must also set the same ID in order for operation to be 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
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**AUDIO SELECT: (Default H)**

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

OUTPUT	12
AUDIO	H H

## SYSTEM INFO

Display H10X10-4K6G Matrix firmware version

* 1.MAIN V1.00	8. IN5 V1.00	16. OUT3 V1.00
2.WEB V1.00	9. IN6 V1.00	17. OUT4 V1.00
3.CPLD V1.00	10. IN7 V1.00	18. OUT5 V1.00
4.IN1 V1.00	11. IN8 V1.00	19. OUT6 V1.00
5.IN2 V1.00	12. IN9 V1.00	20. OUT7 V1.00
6.IN3 V1.00	13. IN10 V1.00	21. OUT8 V1.00
7.IN4 V1.00	14. OUT1 V1.00	22. OUT9 V1.00
8.IN5 V1.00	15. OUT2 V1.00	23. OUT10 V1.00

## USB UPDATE

Update on boot:

Connect the USB flash drive, select USB UPDATE, and press ENTER to execute the FW update. When the screen turns dark during the update, the screen will display "FIRMWARE UPDATE PLEASE WAIT". After completion, it will restart to the boot screen.

Update in standby mode:

Connect the USB flash drive, press and hold the SET button in back panel, connect the power then release the button after 2 seconds, it will automatically update and reboot to the startup screen after completion.

## 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.

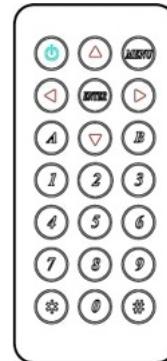
Note: After resetting, the EDID, INPUT/OUTPUT switching status and scene settings will be cleared.

## Remote Control Function (IR01)

To command the matrix locally, setup the remote control IR01 ID the same with 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
	LEFT
	RIGHT
	UP
	DOWN
	ENTER
	MENU
	A
	B
	Quick key 1
	Quick key 2
	Quick key 3
	Quick key 4
	Quick key 5



Quick key 6



Quick key 7



Quick key 8



Quick key 9



OFF



Quick key 10

## Quick key

For example: to switch output port 1 to input port 4, press 1 (OUTPUT 1) and then press 4 (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 H10X10-4K6G Matrix.

## Remote Control Function : (CONSOLE)



**H10X10-4K6G support RS232 and TCP/IP control by commands as below**

**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

Operation Instruction format:

**Computer Command Code**Command +  $\Delta$ (Space) + Parameter + Enter (0D0A)

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

## 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 the 'SWITCH SETTING' page of the HDMI 2.0 10x10 MATRIX web interface. The page has a green header bar with the text 'HDMI 2.0 10x10 MATRIX'. Below the header, the title 'SWITCH SETTING' is centered in orange. The page is divided into four main sections: Power, Output, Input, and Audio. Each section contains a dropdown menu for selecting a value. The 'Power' section includes a 'Power On' dropdown, an 'Output' dropdown, an 'Input' dropdown, and an 'Audio' dropdown. The 'Output' dropdown is currently set to 'Input 1'. The 'Input' dropdown is currently set to 'ARC'. Below these are buttons for 'Reload' (blue) and 'Advanced' (purple). The 'Output' section contains dropdowns for 'Input 2' through 'Input 10'. The 'Input' section contains dropdowns for 'Input 1' through 'Input 10'. The 'Audio' section contains dropdowns for 'Input 1' through 'Input 10'. At the bottom left, there is a 'All port' dropdown set to 'NA'. On the right side, there is an 'Apply' button. At the bottom right of the page, the text 'Version V1.02' is displayed.

1. Power : Control MATRIX power on and standby.
2. Output : Display output 1~10, it can change the display name by the Aliases page.
3. Input : Display input 1~10, this field is a drop-down menu, this field is a drop-down menu, a drop-down menu includes Input 1 ~ 10 and OFF, It can change the display name by the Aliases page.
4. Audio : Switch Audio function HDMI or ARC
5. Reload : Get MATRIX host message.
6. Advanced : Enter into the “Advanced” page.
7. Apply : Complete the setting
8. All Port : Set all output from input 1~10 or off at once.

**Advanced**

**HDMI 2.0 10x10 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-CE-0B-E3-13      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 as Enable, the MATRIX host will automatically get IP Address、Subnet Mask、Gateway, if setup at Disable, the MATRIX host IP Address、Subnet Mask、Gateway need to be set from Advanced page.
- Auto Reset: The terminal connection people will be 4 users online at same time, this function could setup the linking time to avoid long time linking and other users 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

**HDMI 2.0 10x10 MATRIX**

**Aliases**

Output		Input	
Output 1	Output 1	Input 1	Input 1
Output 2	Output 2	Input 2	Input 2
Output 3	Output 3	Input 3	Input 3
Output 4	Output 4	Input 4	Input 4
Output 5	Output 5	Input 5	Input 5
Output 6	Output 6	Input 6	Input 6
Output 7	Output 7	Input 7	Input 7
Output 8	Output 8	Input 8	Input 8
Output 9	Output 9	Input 9	Input 9
Output 10	Output 10	Input 10	Input 10

**Back** **Apply**

- 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 to advanced page.

## MAC Filter

**HDMI 2.0 10x10 MATRIX**

**MAC Filter**

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

**Back** **Apply**

- 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

HDMI 2.0 10x10 MATRIX		
Scene		
Save	Load	1 2 3 4 5 6 7 8 9 10
Save1	Load1	01_02_03_04_05_06_07_08_09_10
Save2	Load2	01_02_03_04_05_06_07_08_09_10
Save3	Load3	01_02_03_04_05_06_07_08_09_10
Save4	Load4	01_02_03_04_05_06_07_08_09_10
Save5	Load5	01_02_03_04_05_06_07_08_09_10
Save6	Load6	01_02_03_04_05_06_07_08_09_10
Save7	Load7	01_02_03_04_05_06_07_08_09_10
Save8	Load8	01_02_03_04_05_06_07_08_09_10
Save9	Load9	01_02_03_04_05_06_07_08_09_10
Save10	Load10	01_02_03_04_05_06_07_08_09_10

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

## 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**

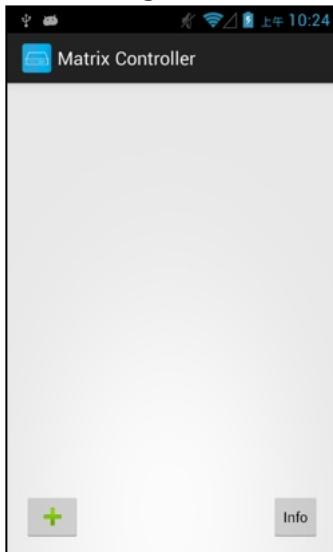
Default subnet mask is 255.255.255.0

You could also set to DHCP mode, please refer to 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

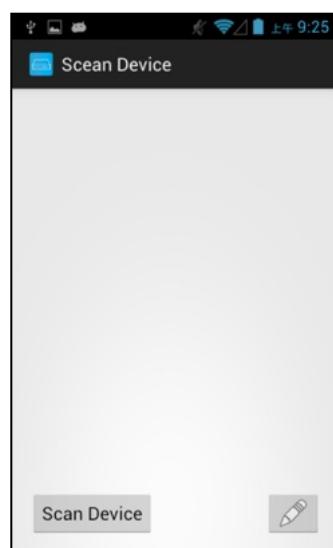


First time entering the APP you will see the main page

Bottom left 「+」 to add matrix

Bottom right 「Info」 to show information

## Scan Device

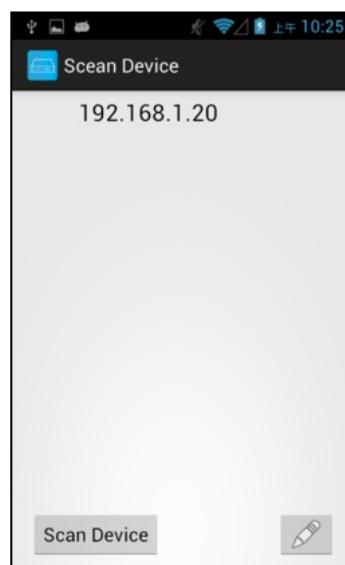


Touch 「+」 button at main screen to enter 「Scan Device」 page

Touch bottom left 「Scan Device」 to start scan

Touch bottom right pen icon to input the IP address manually

## Add Matrix

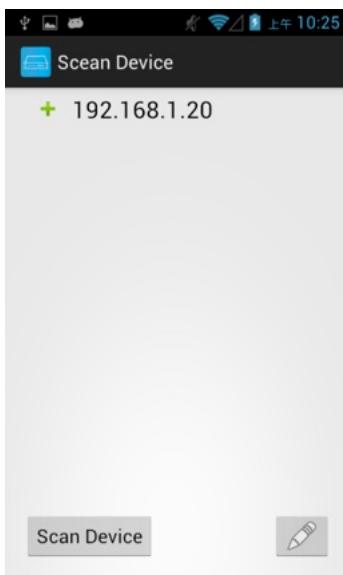


After scanning it will show all matrixes in the list

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, no duplicates**



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

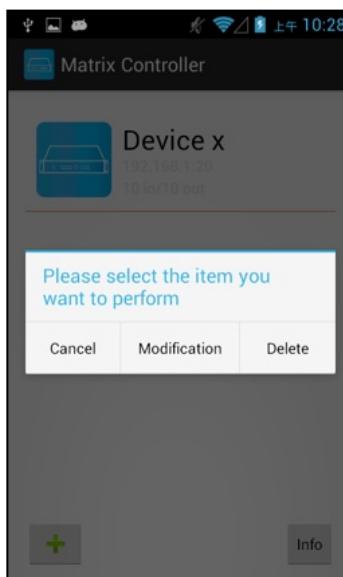


Return to main screen you will see the matrix just added

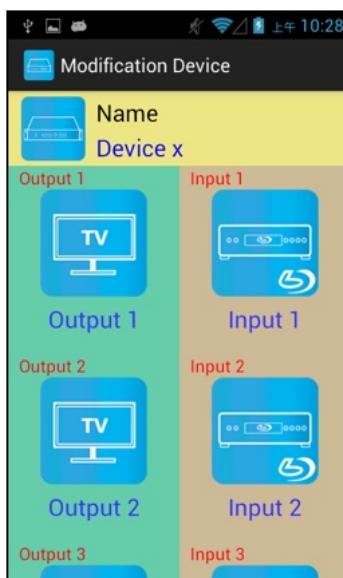
## Modify Device



Press the matrix name to show pop-up dialog



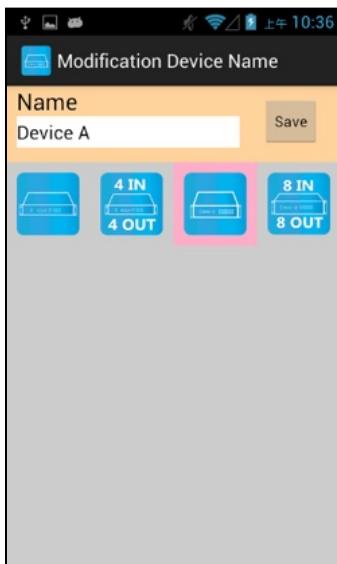
Touch 「Modification」 to enter modification page.



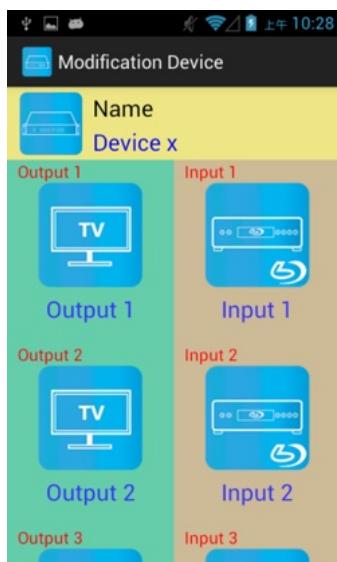
Yellow block shows matrix name and icon

Green block shows name and icon of output devices

Brown block shows name and icon of input devices



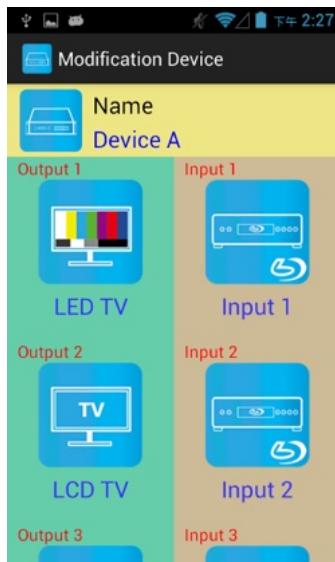
Touch yellow block to modify matrix name and icon  
Input the name and select the icon you prefer then touch 「Save」 to finish



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



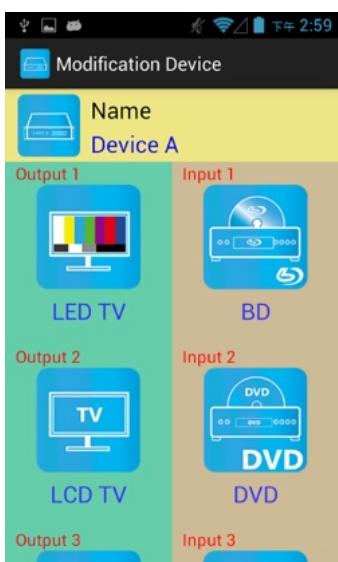
Touch green block to modify output name and icon  
Input the name and select the icon you prefer then touch 「Save」 to finish



Return to Modification page you will see the output has 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 has 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



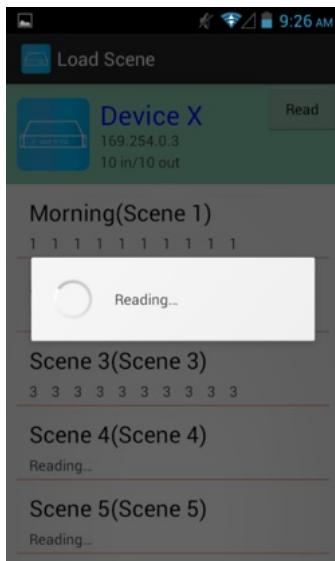
After modification touch 「Save」 to save scene name  
It will return to Load Scene page automatically.

**Notice : Name should be unique, no duplicates or empty**

## Read scene status



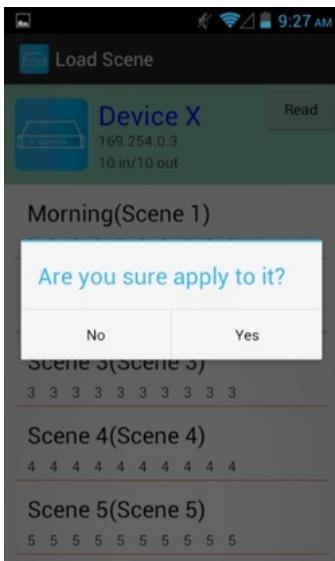
Touch top right 「Read」 to renew the scene status



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 has 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 number of devices

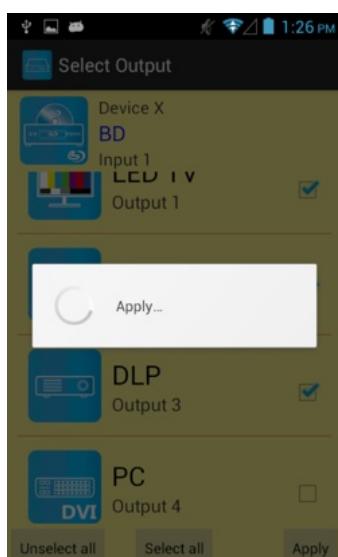
Bottom left 「Save Scene」 to save the scenes  
Bottom right 「Video off」 to turn off video output



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

It will show connected output of current input

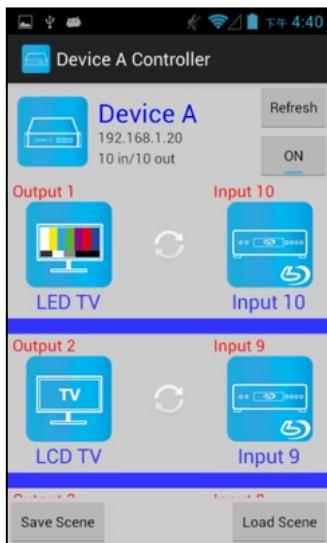
Bottom left 「Unselect all」 to clear all output box  
Bottom center 「Select all」 to check all output box  
Bottom right 「Apply」 to apply output setting



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

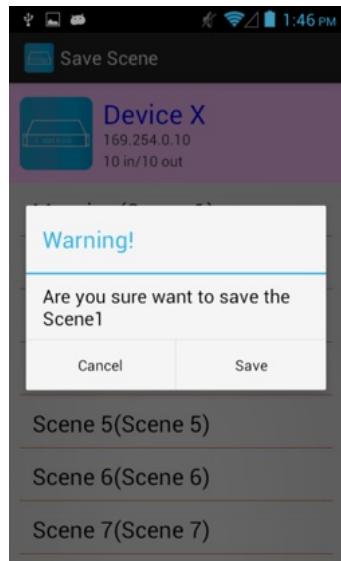
## Save Scene



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

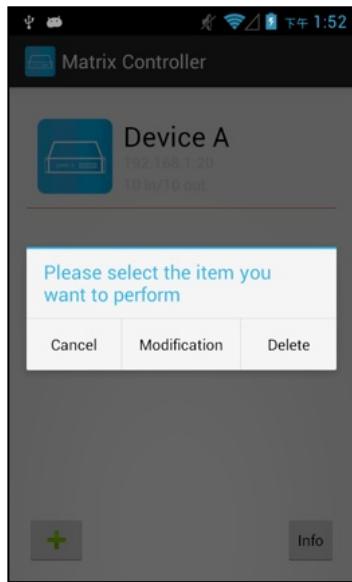


Touch the Scene column to show pop-up dialog



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

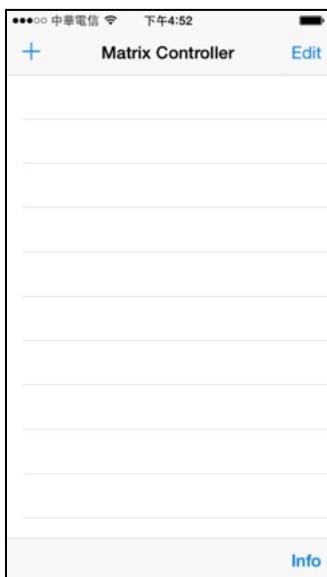
Default subnet mask is 255.255.255.0

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 then press [ENTER], it will show IP Address in the LCD panel of matrix

## Main Page



First time entering the APP you will see the main page

Bottom left 「+」 to add matrix

Bottom right 「Info」 to show information

## Scan Device

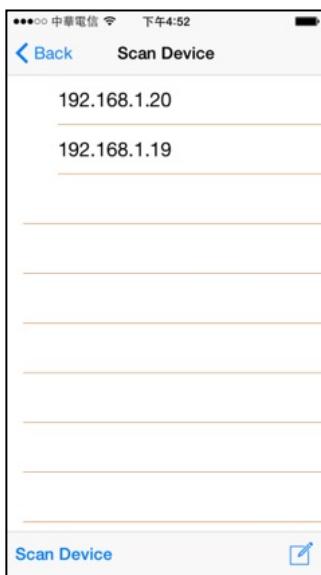


Touch 「+」 button at main screen to enter 「Scan Device」 page

Touch bottom left 「Scan Device」 to start scan

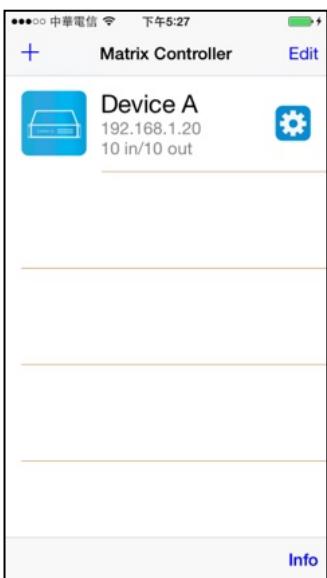
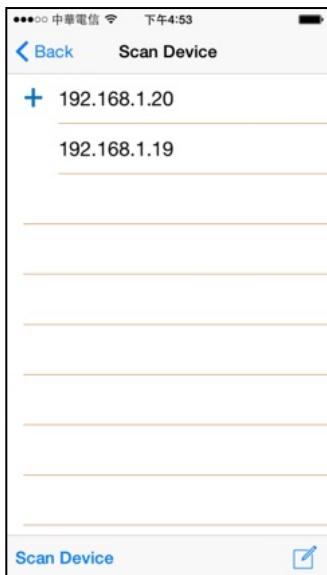
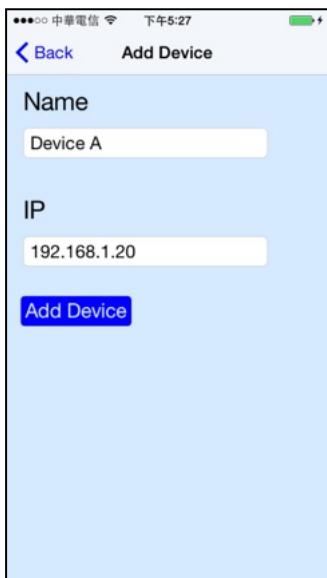
Touch bottom right pen icon to input the IP address manually

## Add Matrix



After scanning it will show all matrixes in the list

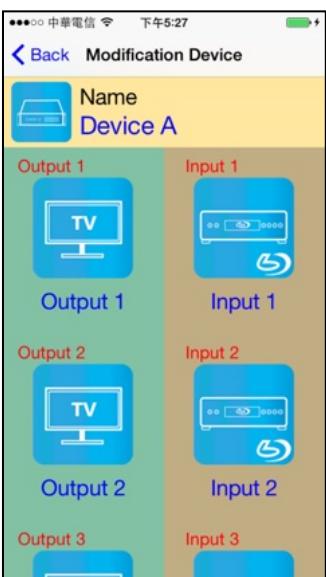
Touch the IP in list to enter 「Add Device」 page



## Modify Device



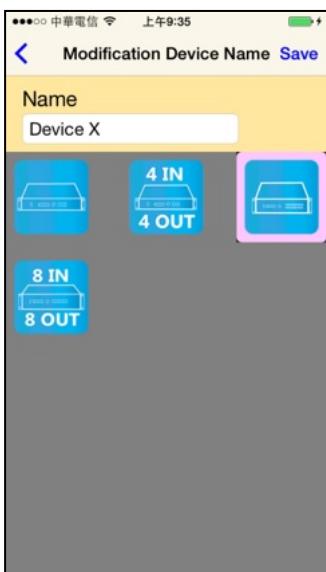
Touch the gear icon to enter Modification page



Yellow block shows matrix name and icon

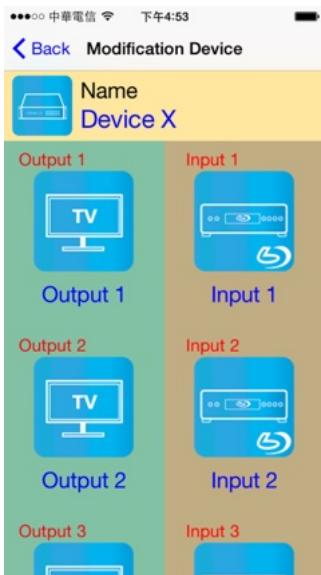
Green block shows name and icon of output devices

Brown block shows name and icon of input devices

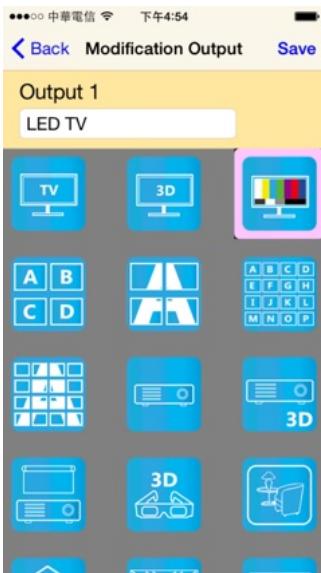


Touch yellow block to modify matrix name and icon

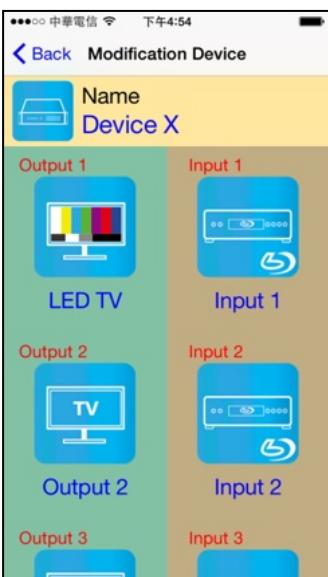
Input the name and select the icon you prefer then touch 「Save」 to finish



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

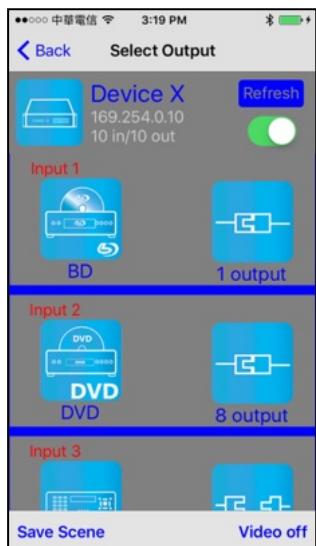
## Channel Switching mode (load scene, input selection, output selection)



Click device name in list to enter load scene page



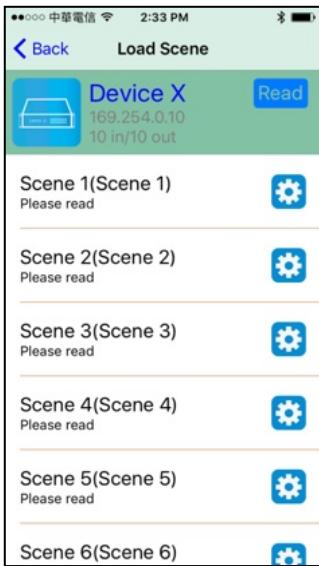
Slide right from load scene page to enter input selection mode (as before)



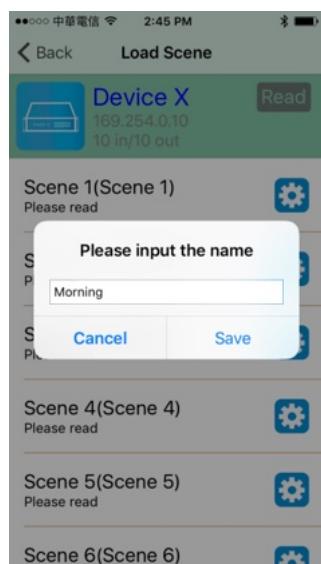
Slide left from load scene page to enter output selection mode (support multiple selection)

## Load scene

### Modify scene name



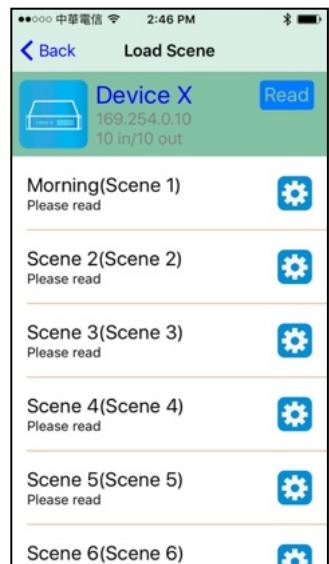
Touch the gear icon to enter modify scene name



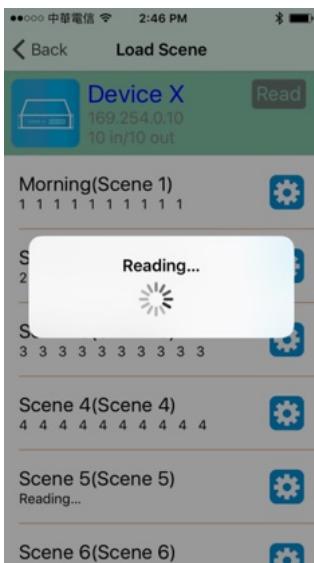
After modification touch 「Save」 to save scene name  
It will return to Load Scene page automatically.

**Notice: Name should be unique, no duplicates or empty**

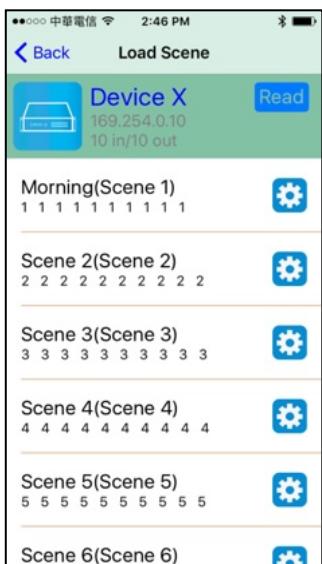
## Read scene status



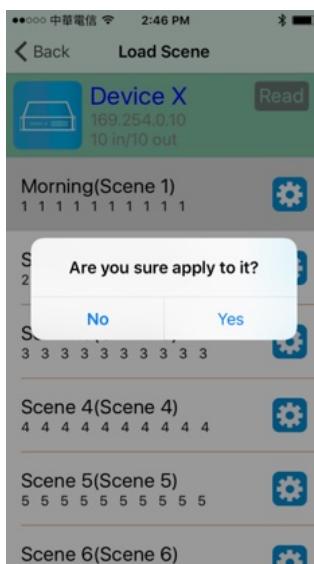
Touch top right 「Read」 to renew the scene status



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

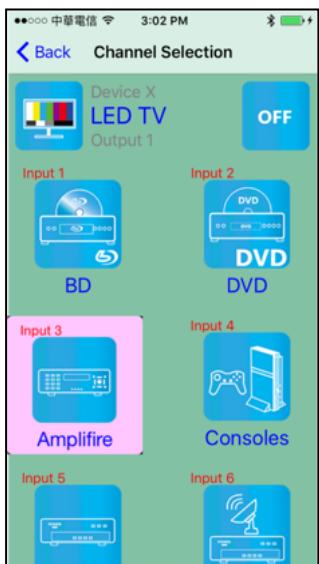
## Input Selection Mode



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

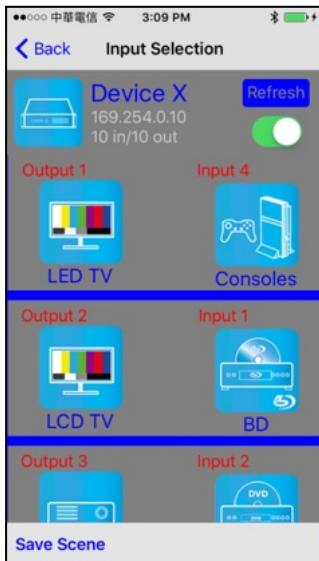
The block under device are Output 1~ Output 10  
(4 by 4 matrix only shows Output 1~Output 4)  
Left side shows output device name  
Right side shows current input device name

Bottom left 「Save Scene」 to save the scenes



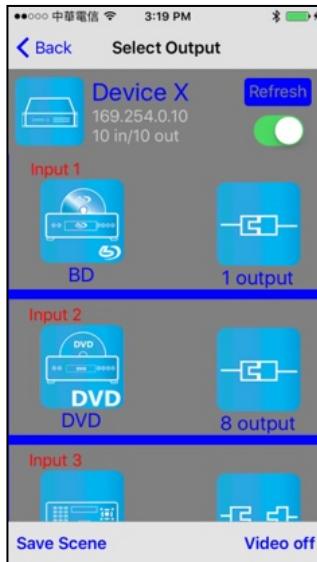
Touch output block to enter Channel Selection page

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 has 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



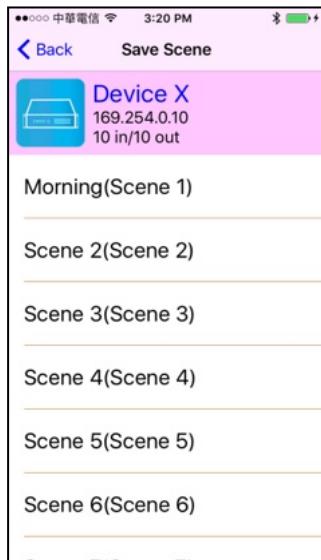
After touch 「Apply」 it will show pop-up message 「Apply...」

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

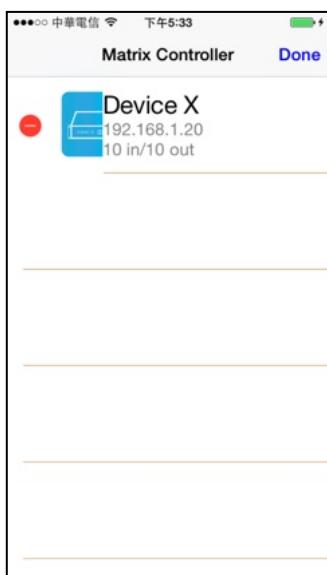


Touch 「Save」 to save current channels setting for all output  
It will return to Save Scene page automatically.

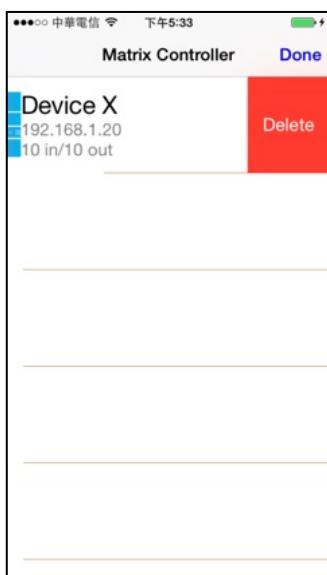
## Delete Matrix



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.	H10X10-4K6G
Support	
Compliance	HDMI 2.0, HDCP 2.2, DVI 1.1, 3D, HDR 10, Dolby Vision, HLG
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	9600 bps
IR Support	45°, 5M
Ports & Interfaces	
Video Input	10 x HDMI Type A
Video Output	10 x HDMI Type A
Audio Output	2 x SPDIF
Ethernet Interface	1 x RJ45
RS232 Interface	1 x DB9 Female (Console)
IR Interface	1 x (3.5mm) Phone Jack
USB Interface	1 x USB-A (Firmware Update)
Power	
Power Supply	DC 12V 6.67A
Power Consumption	2.8A
Ambient Temperature	
Operation	32°F to 131°F (0 to 55°C)
Storage	-4°F to 185°F (-20 to 85°C)
Humidity	up to 95%
Physical Characteristics	
Dimensions	19" x 9.13" x 1.73" (483 x 232 x 44mm)
Weight	6.44lbs (2.92kg)