



# wolfpack 3636-Chassis Modular Matrix Switcher WEB GUI User Manual

[Home](#) » [WOLFPACK](#) » wolfpack 3636-Chassis Modular Matrix Switcher WEB GUI User Manual 

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### Contents

- [1 Safety Reminder](#)
- [2 Product Introduction](#)
- [3 Product Features](#)
- [4 Technical Datasheet](#)
- [5 Packing Details](#)
- [6 Panels](#)
- [7 Equipment Connection Diagram](#)
- [8 Equipment Operation and Instruction](#)
- [9 Trouble Shooting and Attention](#)
- [10 After Sales](#)
- [11 Documents / Resources](#)
- [12 Related Posts](#)

### Safety Reminder

To protect the device and operating personnel from electrostatic discharge, you need to check and ensure that the device is grounding well before the device is powered on. Please observe the following when you install, use, maintain this equipment.



Make sure the device ground connection.

### **Disposal Instruction (US)**

For better protection of our earth, please don't throw this electronic device into municipal trash bin when discarding.

To minimize pollution and ensure utmost protection of the global environment, please recycle the product. For more information about the collection and recycling of Waste Electrical and Electronic Equipment (WEEE), please contact your local dealers.

### **Safety Instructions**

1. Please read these safety instructions carefully.
2. Please keep this User Manual for later reference.
3. Please disconnect this equipment from connector before cleaning. Don't use liquid or sprayed detergent for cleaning. Use moisture sheet or cloth for cleaning.
4. Make sure the equipment is connected to the power source with the correct voltage, frequency, and ampere.
5. All cautions and warnings on the equipment should be noted.
6. Never pour any liquid into opening, this could cause fire or electrical shock.
7. Never open the equipment. For safety reason, the equipment should only be opened by qualified service personnel.
8. If one of the following situations arises, get the equipment checked by a service personnel :
  - a. Liquid has penetrated into the equipment.
  - b. The equipment has been exposed to moisture.
  - c. The equipment has not work well or you can not get it work according to user's manual.
  - d. The equipment has dropped and damaged.
  - e. If the equipment has obvious sign of breakage.
9. Ambient operation temperature: 0 ~ 45 degrees.
10. Risk of overheating! Don't put operating/installing equipment inside too closed space, be sure the installation space at least 1 to 2 inches or 2 to 5 cm of space for ventilation. To ensure that other objects do not cover the equipment.

### **Notice: Peripheral devices**

Only peripherals (input/output devices, terminals, player, etc.) certified to comply with Class B limits may be attached to this equipment. Operation with non-certified peripherals is likely to result in interference to radio and TV reception.

### **Caution**

Changes or modifications not expressly approved by the manufacturer could void the user's authority, which is granted by the Federal Communications Commission, to operate this equipment.

### **Product Introduction**

This is a modular matrix switcher, with 9 input slots and 9 output slots, so it can support maximum 36 inputs and 36 outputs as it's using 1-card 4-port cards, the signals are including the DVI, HDMI, HDBasT, Fiber Optic, 3G-

SDI. Users are able to have mixed signals inputs and mixed signals outputs.

The single channel signal switching speed can reach 12.5Gbps, and the main board is using Four core four links processing technology, the switching ability speed can reach 32Gbps. With uncompressed transmission technology for the digital signal to make sure the image High fidelity output. Unique signal links shielding designing technology to make sure the signal completeness, the internal data switch has super strong capacity of resisting disturbance and long continuous and stable working ability. Supports 7\*24 continuously working and with dual LAN and RS232 backup control, it's convenient for users to control via PC, iPad, APP and the 3rd parties central control by the the RS232 control commands.

With the dual RS232 and LAN control, users also can simply set up and control the surrounding equipment, such as the projector, electric curtain and TVs.

This matrix switchers have been widely used in the conferencing, radio&television project, multimedia conferencing hall, large screen display project, television teaching, command control center and so on applications.

## Product Features

- Modular designing chassis, with 9 input slots and 9 output slots
- 1-card 4-port input and output card
- Supports 1080P, 4K30 and 4K60 cards for selections
- Supports DVI-I/ HDMI/ 3G-SDI/ HDBaseT/ Fiber to mix input and output
- Support Video wall and seamless switching with the 1080P and 4K60 cards
- Support 3.5mm audio embedded and de-embedd function
- Support up/down scaling function via the DIP switch
- Support dual LAN and RS232 ports for backup control
- Front buttons with background lights, easier to operate at any time
- Support auto saving protection and auto recovery function while power cut

## Technical Datasheet

<b>Model</b>	<b>FM-3600</b>
<b>Description</b>	36×36 modular matrix switcher
<b>Input</b>	1-card 4-port input, including DVI/HDMI/VGA/CVBS/YPbPr/SDI/ HDBaseT/Fiber
<b>Output</b>	1-card 4-port output, including DVI/HDMI/VGA/CVBS/YPbPr/SDI/ HDBaseT/Fiber
<b>Protocol Standard</b>	Supports HDMI1.4, HDCP1.4, HDMI2.0.HDCP2.2

<b>Color Space</b>	Support RGB444, YUV444, YUV422 , x.v.C standard color extension
<b>Resolution</b>	640×480—3840×2160@60Hz(VESA ), 480i—4K@60Hz(HDTV )
<b>Distance</b>	HDMI/DVI: 15m/40ft ; HDBaseT: 70m/220ft; Fiber: 2km/6000ft
<b>Control</b>	iOS/Android Apps, WEB GUI, RS232 & Front buttons with background light
<b>Power</b>	AC: 110V—260V 50/60Hz
<b>Consumption</b>	17W(No Cards)
<b>Dimension</b>	6U, 482*405*267(mm)/ 18.97*15.35*10.5(inch); Packing size: 56*51*25(cm)
<b>Weight</b>	13kg/ 28.66lbs (No Cards)
<b>Work Temperature</b>	0°C ~50°C
<b>Storage Temperature</b>	-20°C ~55°C

## Packing Details

Matrix/switch /chassis/with/customized

configuration .....1 unit

Power

cord.....1

pcs

User

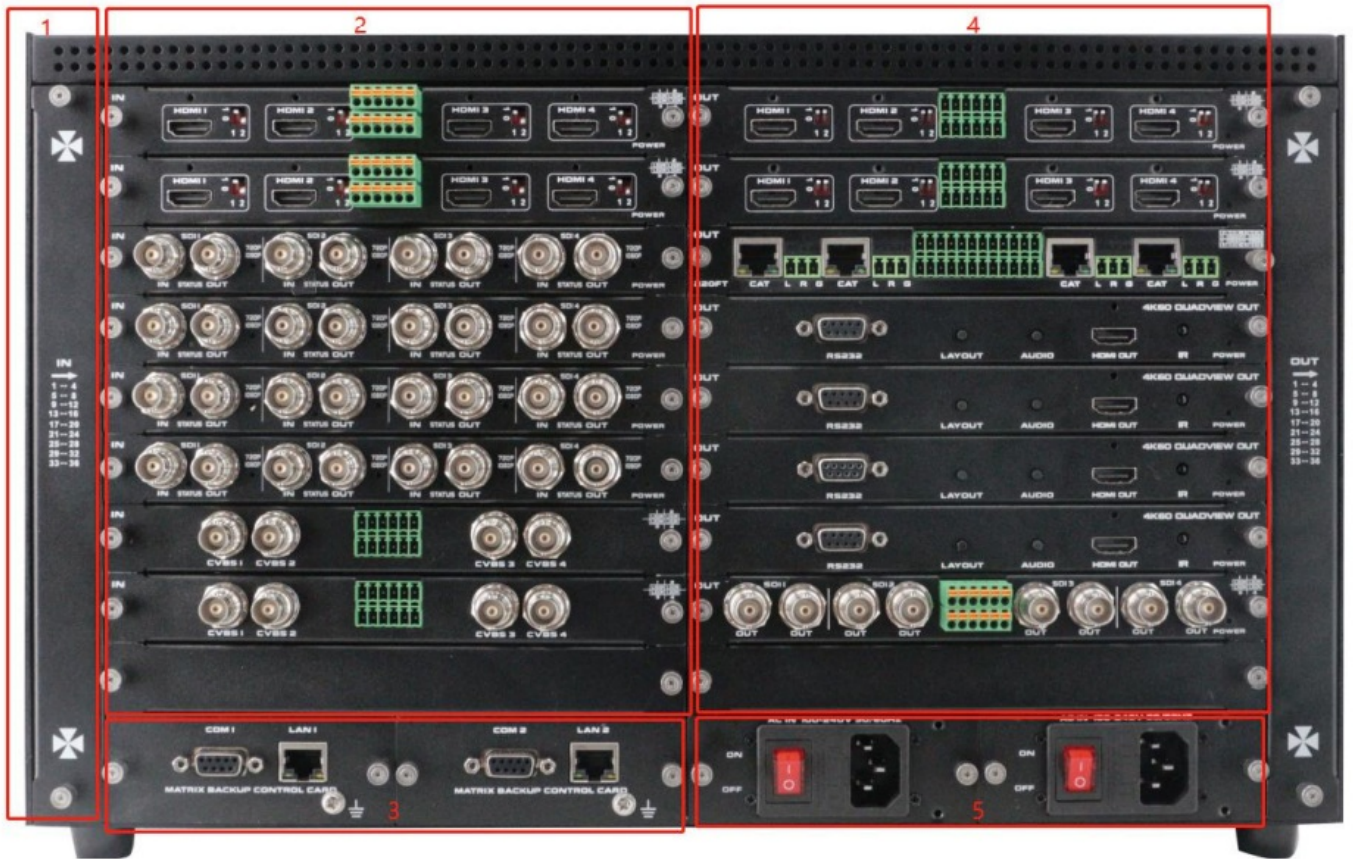
Panels

Front Panel



Name	Description	
LCD Screen	Operation information real-time Display	
POWER	light up after power on, it will light off after power off	
ACTIVE	Flashing while using the buttons/ WEB switching successfully	
IR	IR remote control	
OUTPUT	Input buttons with background light, from 1~36 input buttons	
INPUT	Output buttons with background light, from 1~36 output buttons	
CONTROL	MENU	Select between View, Switch, Scene Save/ Recall and Setup
	UP	Upward and short cut button for switching to ALL outputs
	SAVE	For saving the scene or setup
	ENTER	Enter button
	DOWN	Downward and short cut button for canceling to ALL outputs
	RECALL	For recalling the saved scene

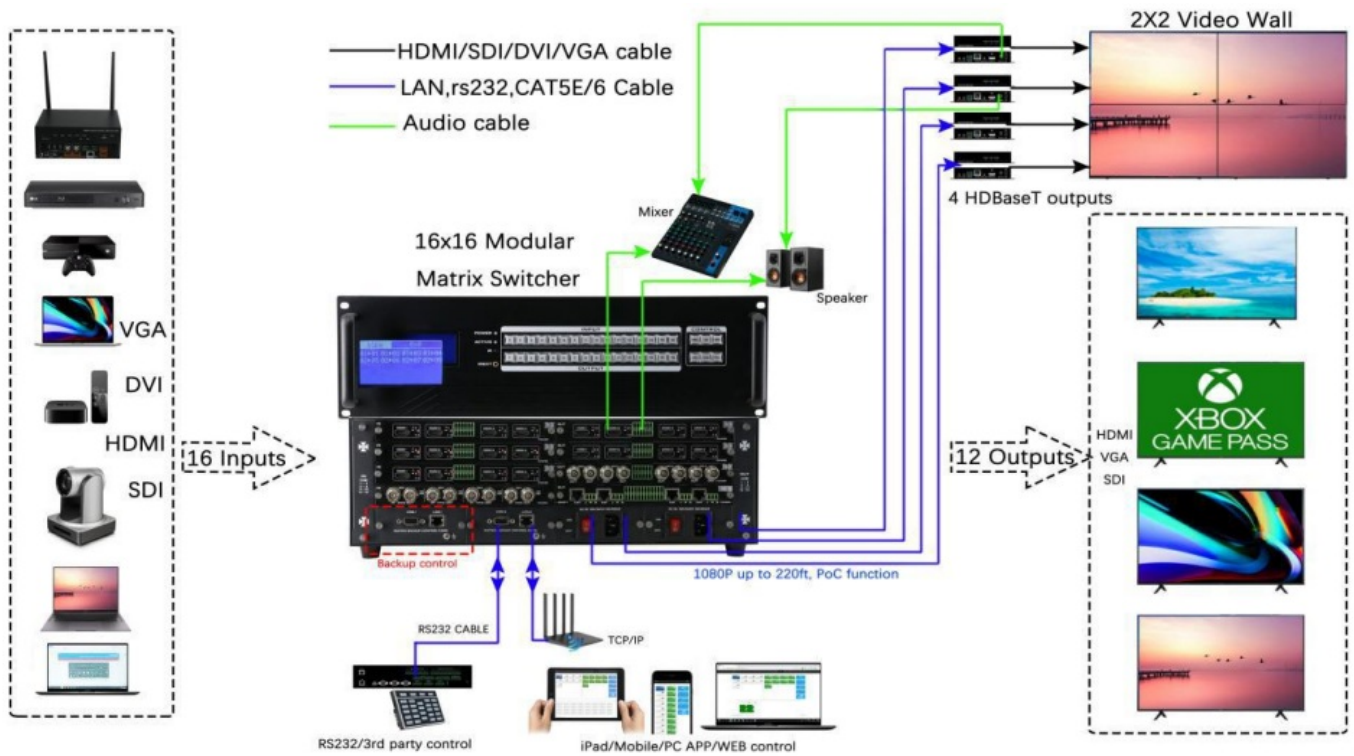
**Rear Panel:**



No	Name	Description
1	Cooling fans	Modular cooling fans
2	Input slots	Total up to 18 input slots
3	Control card	Backup control ports: LAN1, COM1; LAN2, COM2
4	Output slots	Total up to 18 output slots
5	Power module	Redundant power supply

## Equipment Connection Diagram





## Equipment Operation and Instruction

The LCD display screen will light up after power and turned on. It shows the current operation status, press MENU button, it will keep recycling between VIEW, SWITCH, SCENE, SETUP four different interface. The default interface is VIEW.

### Font buttons switching operation

#### Switching operation

Switching with industry 2-key fast switching, first press the input button and then select/press output button. Details are as follow:

- There are 36 input buttons, 36 output buttons. First press MENU to show SWITCH interface, then can continue the next switching step
- Press input number at the INPUT area, the input button will light up with blue light
- Then press output number at the OUTPUT area, and the output button will light up. Users also can press the UP button to realize 1 to ALL switching.
- If need to cancel switching, can press the button again to cancel. Users also can press the DOWN button to cancel all outputs

#### Scene Operation

- The system can save 40 scenes, after switching successfully in the SWITCH interface, press MENU button and switch to SCENE interface.
- Enter the wanted scene save number(1~36), then press SAVE. If want to reload the saved scene, press the scene number and press RECALL button



## Setup Operation

- First press MENU switch to SETUP interface, then continue next operation
- Via SETUP, it can realize IP address changing, in SETUP interface can use UP/ DOWN button to position, enter the needed IP address from the left button side, then press SAVE button to save

## View Operation

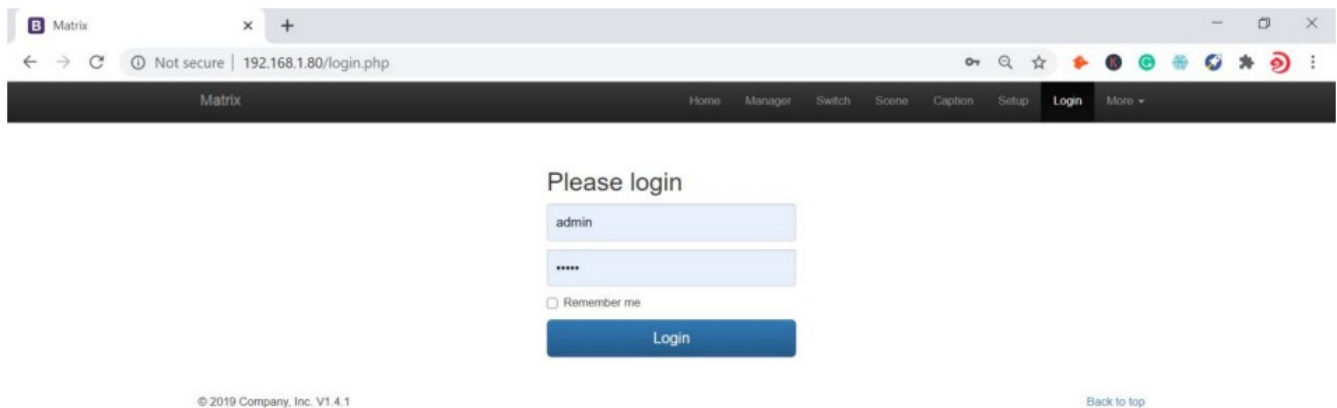
Via MENU button switch to VIEW interface, will display the current switching status

## WEB Control

The default IP address are 192.168.0.80(LAN1) and 192.168.1.80(LAN2).

## Login Operation

Accordingly to connected LAN port, enter the corresponding IP address, if using the LAN2, then enter 192.168.1.80 in the browse(Recommend with Google Chrome) as below:

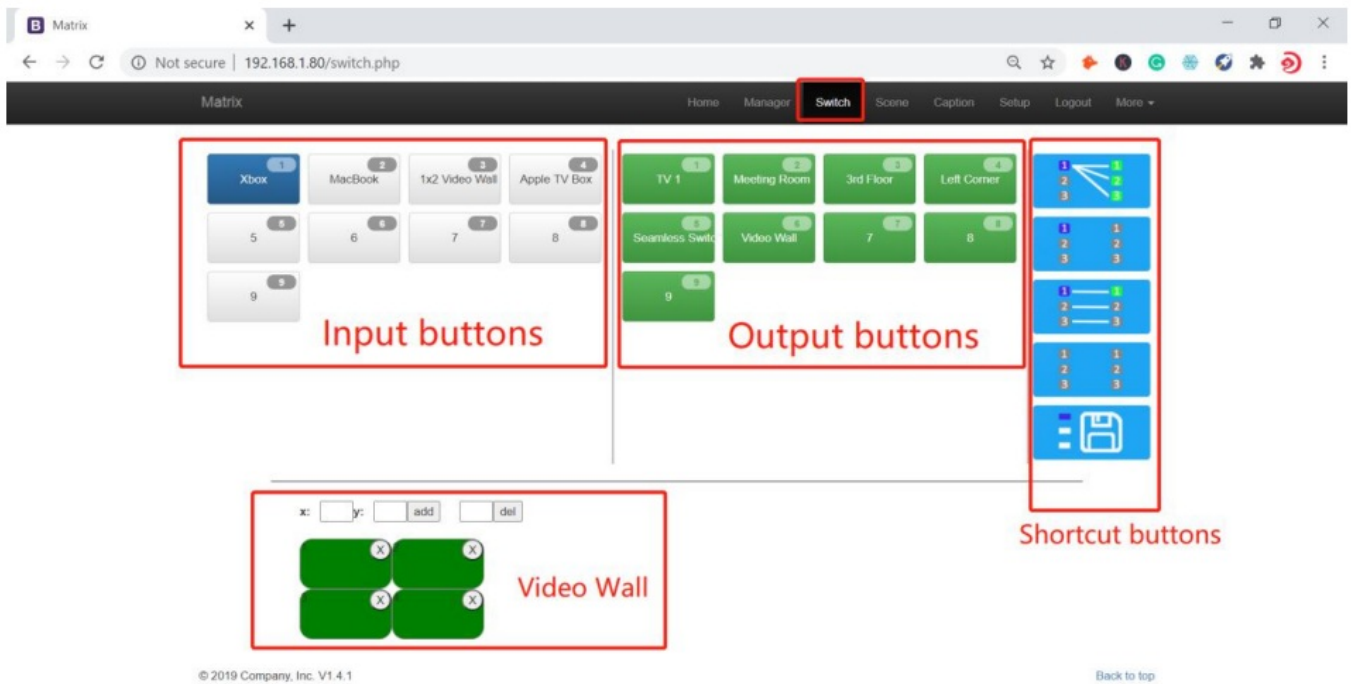


**Note:** The default user name and password is the same: admin, click login after entering. Please make sure the control PC is at the same IP segment.








## Switch

Switch interface:



Users can do the input sources switching by clicking the Input buttons first, then pressing the Output buttons. Or users can use the shortcut buttons on the right for the fast switching:

	Switch one input to all the outputs
	Close one input to all the outputs
	Switch all inputs on all outputs
	Close all inputs to all outputs
	Switch to the scenes Save and Recall interface

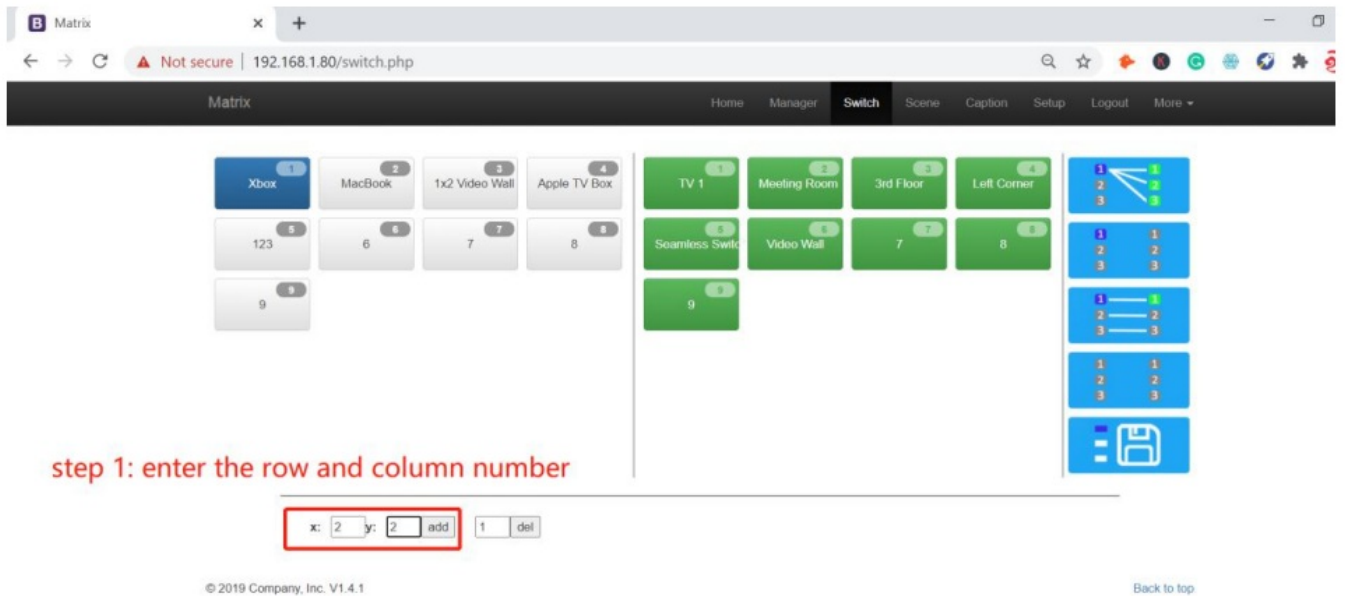
Users also can do the Video wall settings on the WEB GUI bottom by simply adding the x&y(x: for the rows; y: for column).



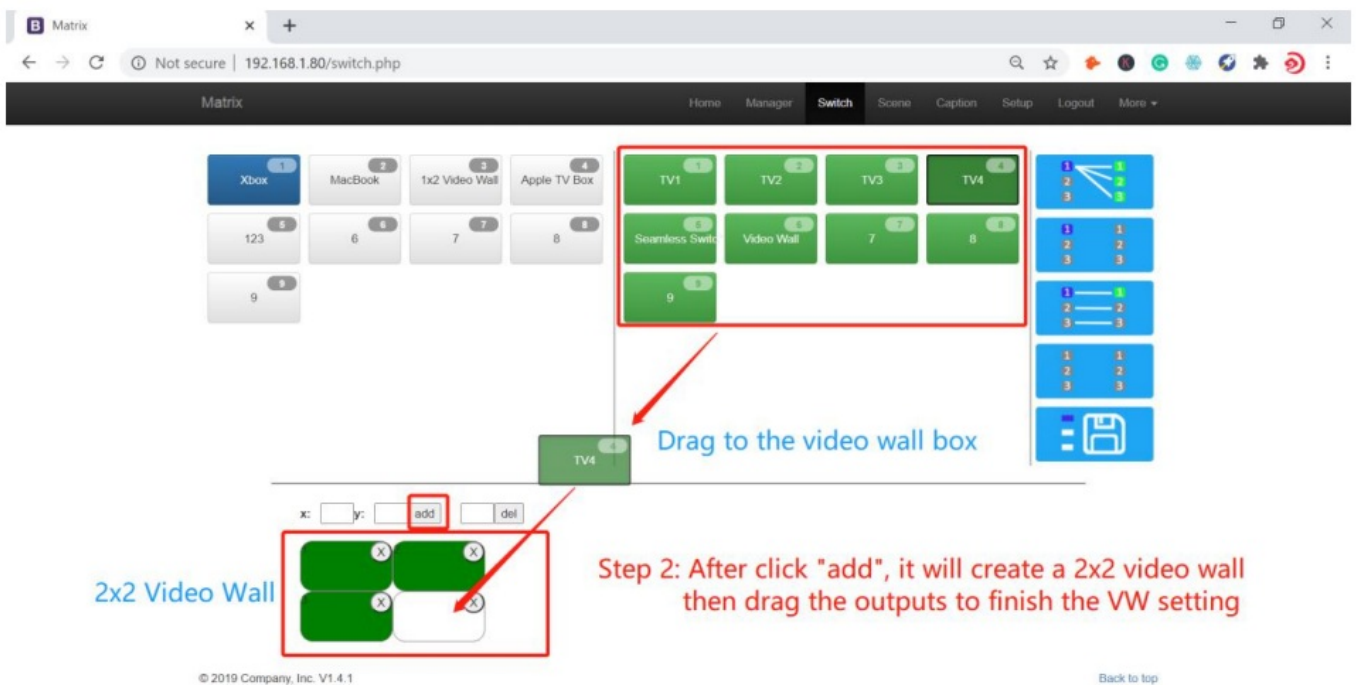
© 2019 Company, Inc. V1.4.1

**Note:** that this video wall function only works with the 1080P HDMI/HDBaseT and 4K60 HDMI output card only. Below the steps to create the video walls:

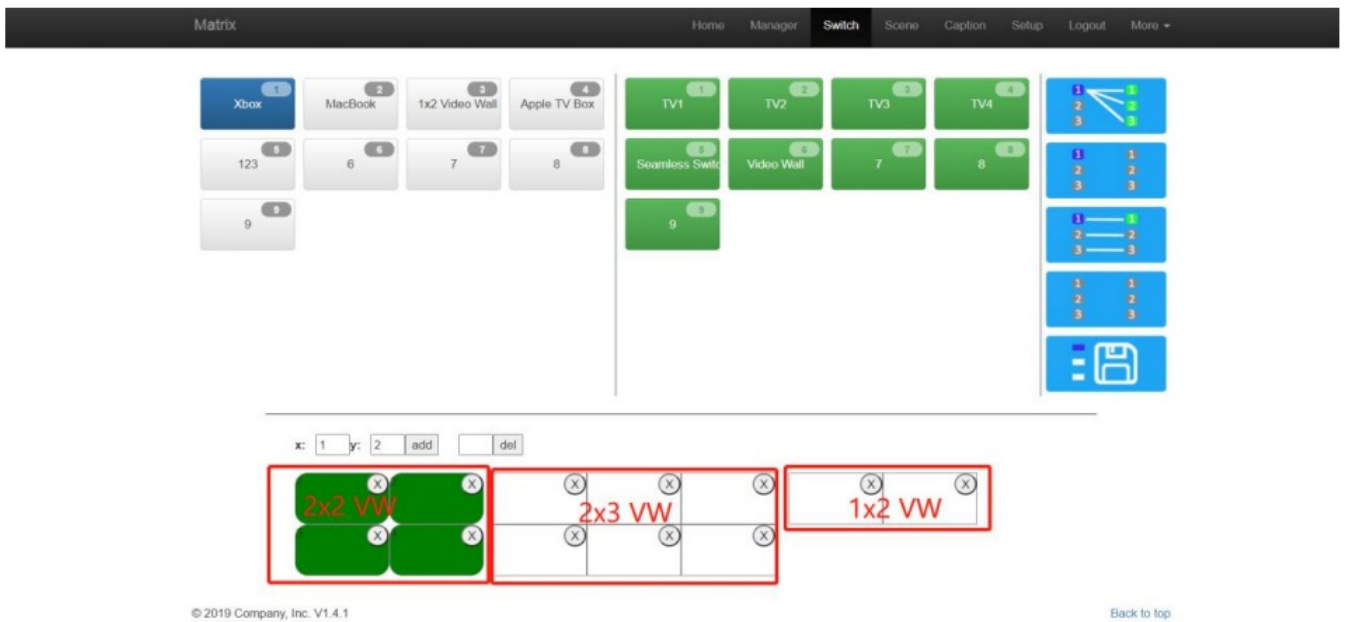
Step1: Enter the video wall Row(x) and column(y) numbers, and then click “add”, example to create a 2×2:



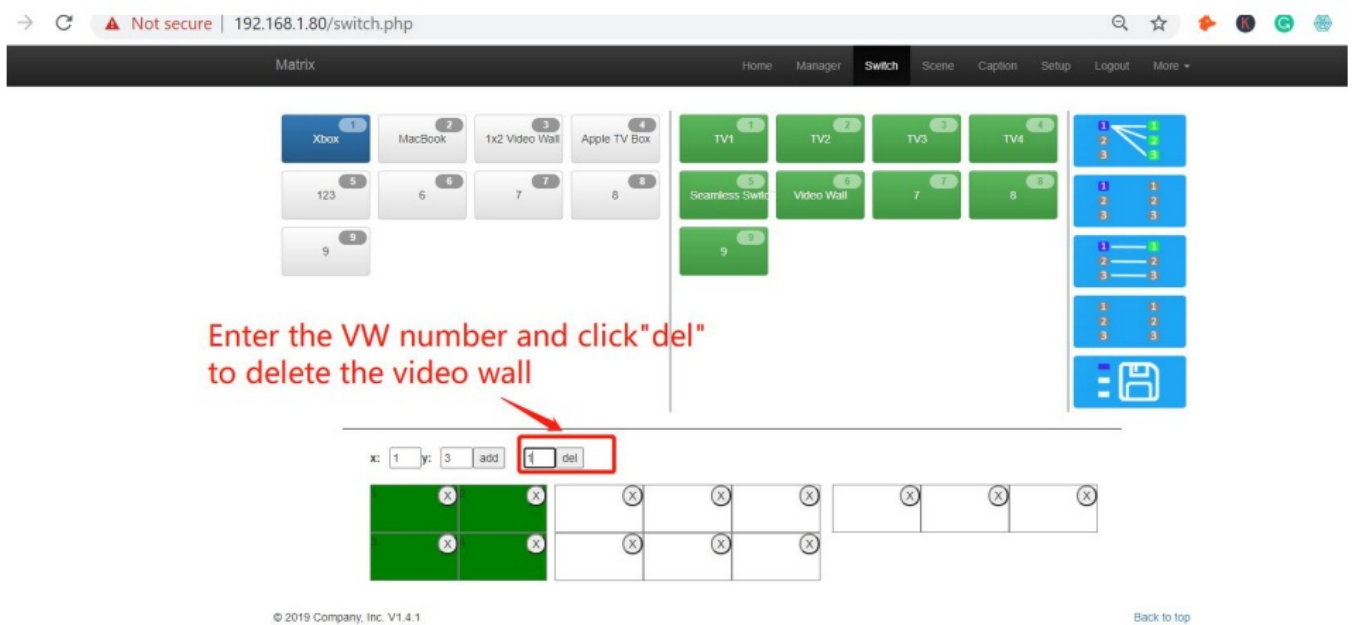
Step 2: Click “add” to create the 2×2 video wall, then drag the outputs to the video wall box.



Users can have multiple video walls by the same way to create, for the 9×9 matrix switcher, the video wall configuration will be limited to 9, it means the configuration could be 3×4 video wall.

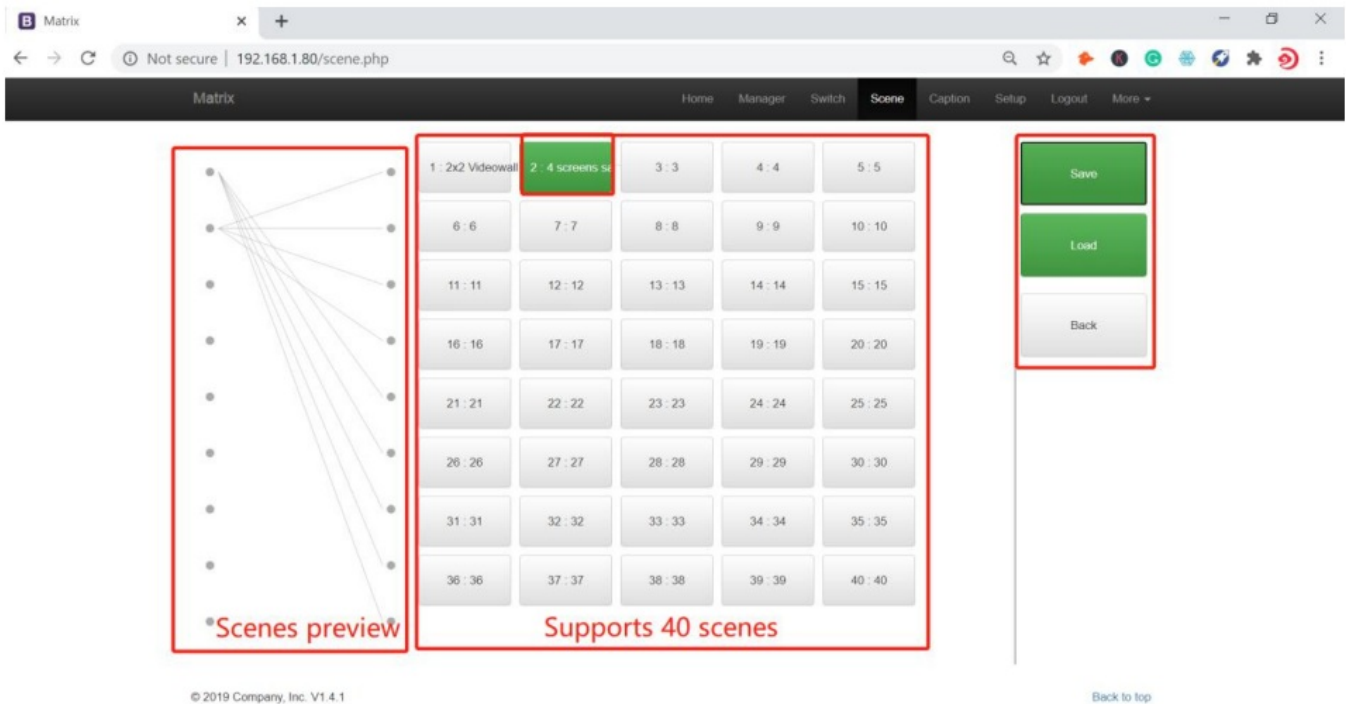


To delete the video wall, users will only need to enter the video wall number in the del box and click “del”.



## Scene

### Scene Interface:

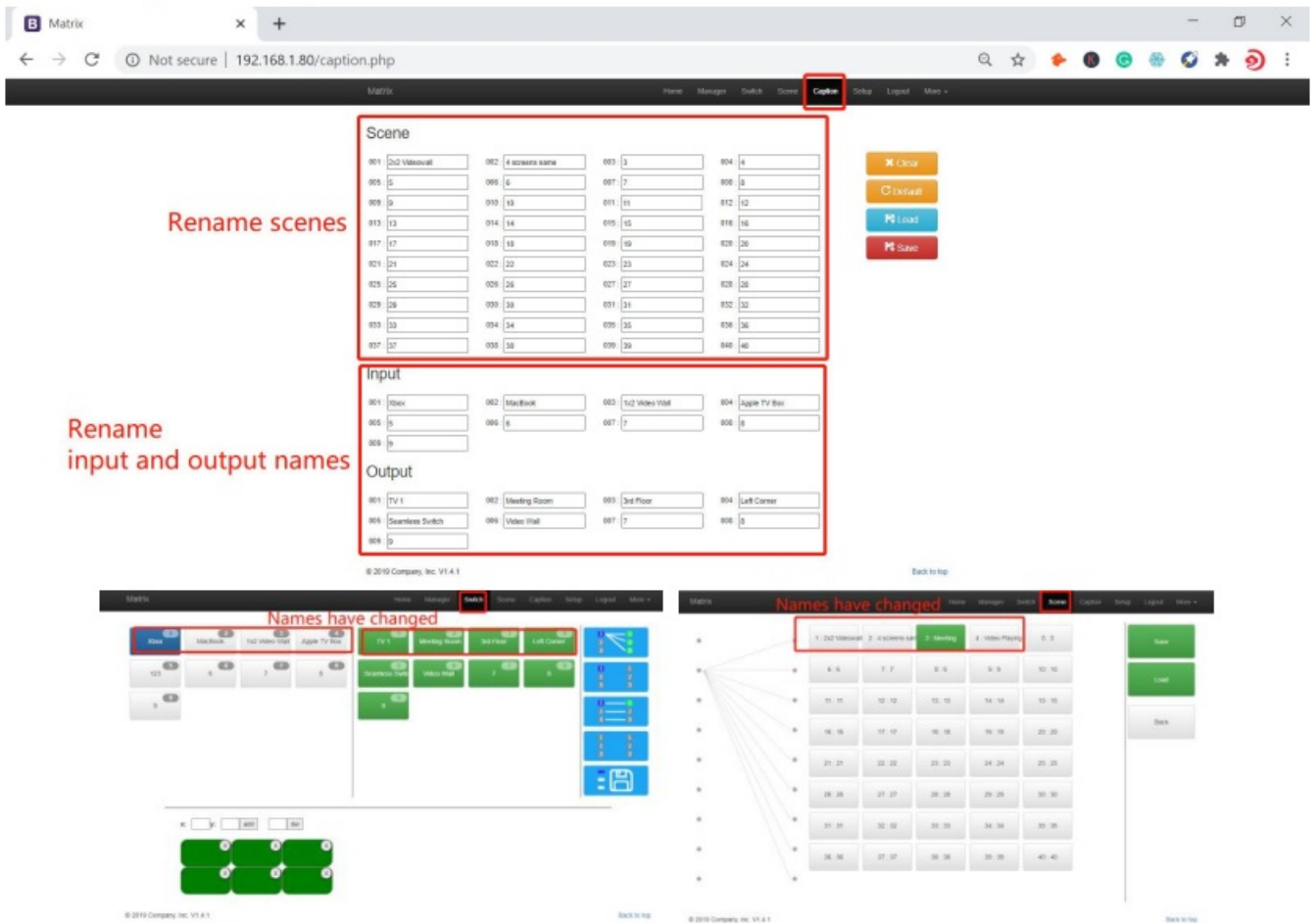


It can support 40 scenes in total, users can preview each scene switching status by clicking on any of the scene number. Click “Save” to save the switching status, and “Load” to recall the scenes. “Back” to return back to the switch interface.

### Caption:

### For changing the input, output and scenes' name

Users can rename the scenes, input and output names here, users can change all the names and then need to click the “Save” button on the right. After renamed the names, users will see the input, output and the scenes names have changed once click to the “Switch” and “Scenes” interface. With this renaming function, it can be easier for the users to know the sources and ends.



## Setup

### Setup interface:

Users can reboot, change the IP address, set up the login user names, language and the RS232 baud rate settings here. After changed the IP address, will need to reboot the matrix switcher, then the new IP address will take effect.

The screenshot shows the Matrix Setup interface with four configuration windows:

- System:** A window with a message "System will reboot" and buttons for "Close" and "Reboot".
- Ethernet:** A window for network configuration with fields for IP 1, Subnet 1, Gateway 1, IP 2, Subnet 2, and Gateway 2. The values are: IP 1: 192.168.0.80, Subnet 1: 255.255.255.0, Gateway 1: 192.168.0.1, IP 2: 192.168.1.80, Subnet 2: 255.255.255.0, Gateway 2: 192.168.1.1. Buttons at the bottom include "Close", "Default", "Reboot", and "Save".
- Users:** A window for user management with fields for Administrator (Username: admin, Password: ) and User (Username: user, Password: ). Buttons at the bottom include "Close", "Default", and "Save".
- More:** A window for additional settings with a Language dropdown (English selected) and a baudrate field (115200). Buttons at the bottom include "Close", "Default", "Reboot", and "Save".

At the bottom of the page, there is a copyright notice "© 2019 Company, Inc. V1.4.1" and a "Back to top" link.

## More:

For the more interface, users mainly can do the firmware upgrade here.

Screen is for the other matrix models which with the touch screen, so users can monitor the touch screen switching status.

For the upgrade, users need to check with the factory to get the firmwares, the firmware is ".zip" format.

License and Debug is for factory engineering team to have the technical support.

The screenshot shows the Matrix Upgrade interface. At the top, there is a warning message: "Please ensure the correctness of the upgrade file, Do not power off the equipment during upgrade." Below the message is a text input field and two buttons: "Browse" and "Upgrade". On the right side, there is a dropdown menu with the following options: "Screen", "Upgrade", "License", and "Debug". The "Upgrade" option is highlighted with a red box. At the bottom of the page, there is a copyright notice "© 2019 Company, Inc. V1.4.1" and a "Back to top" link.

## Manager

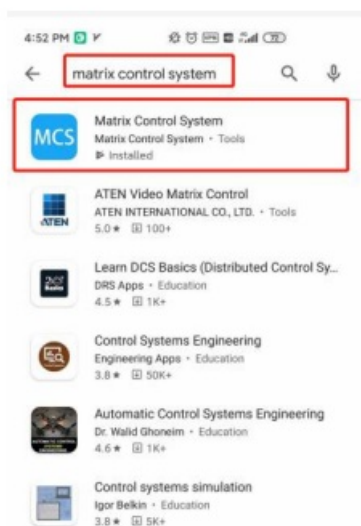
This Manager interface, it allows the users to manage at most 254 units of the matrices which are installed at the same area network and at the same gateway but different IP addresses. As below are showing 3 matrices, users can rename each matrix and click button to do the switching or open in a new manage window.



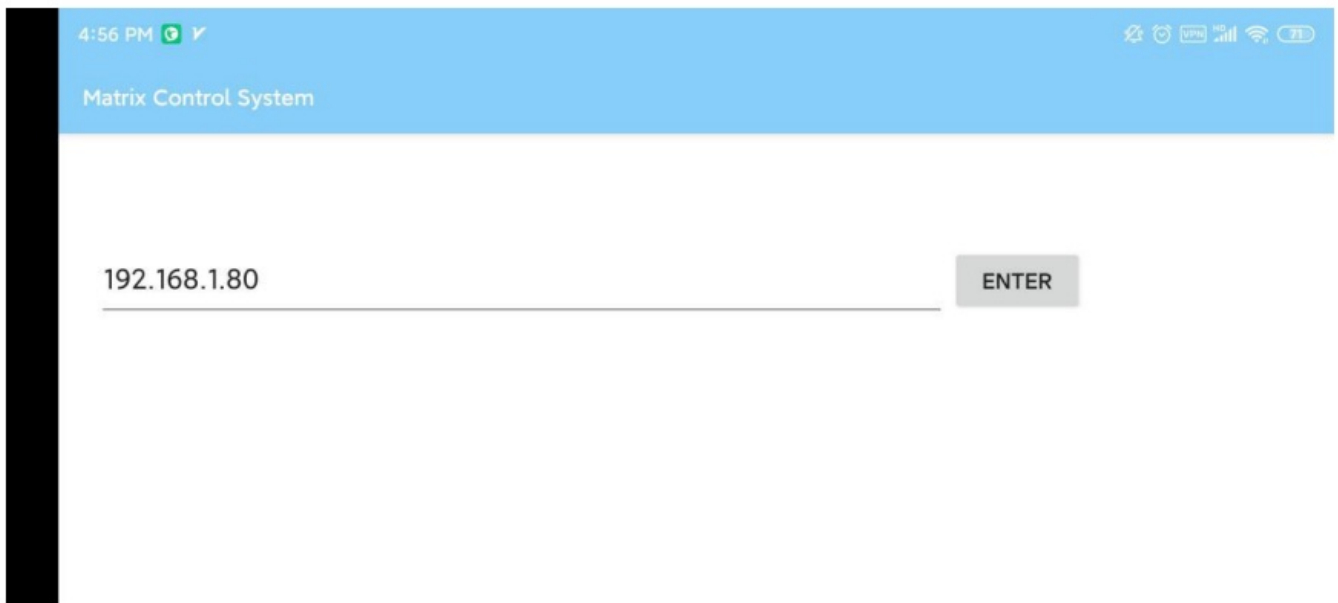


## APP Control

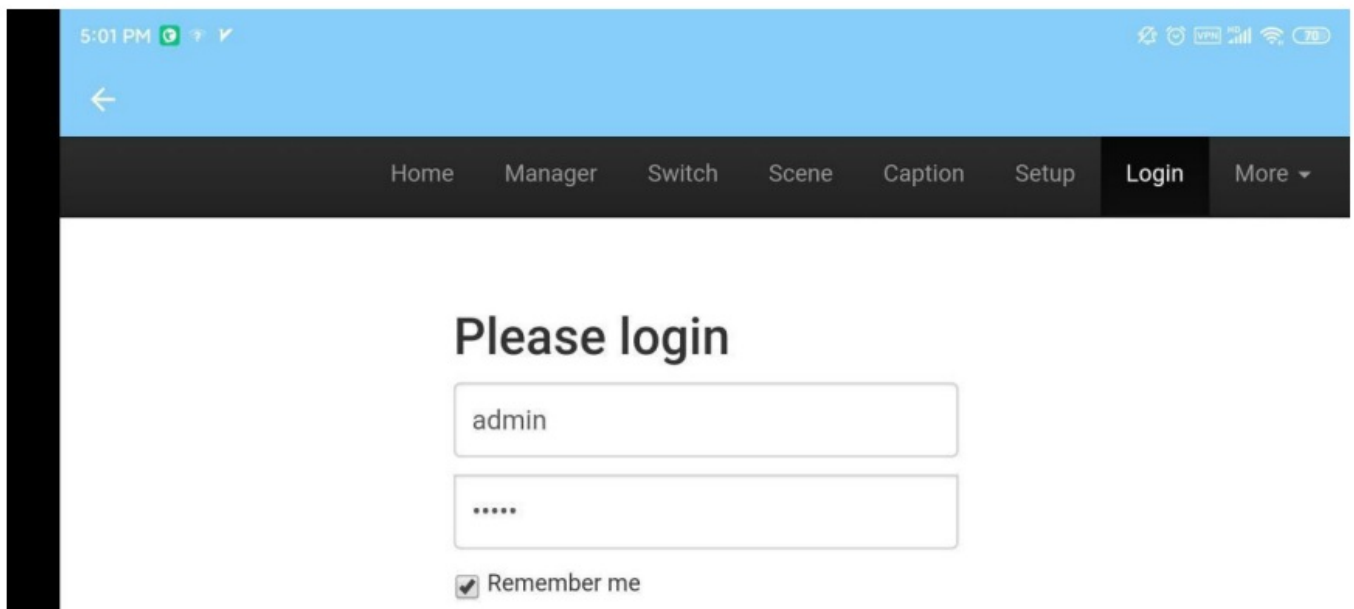
The matrix switchers also can support the iOS and Android APP control, users can search the keyword “Matrix Control System” in Apple store or the Google Play Store.



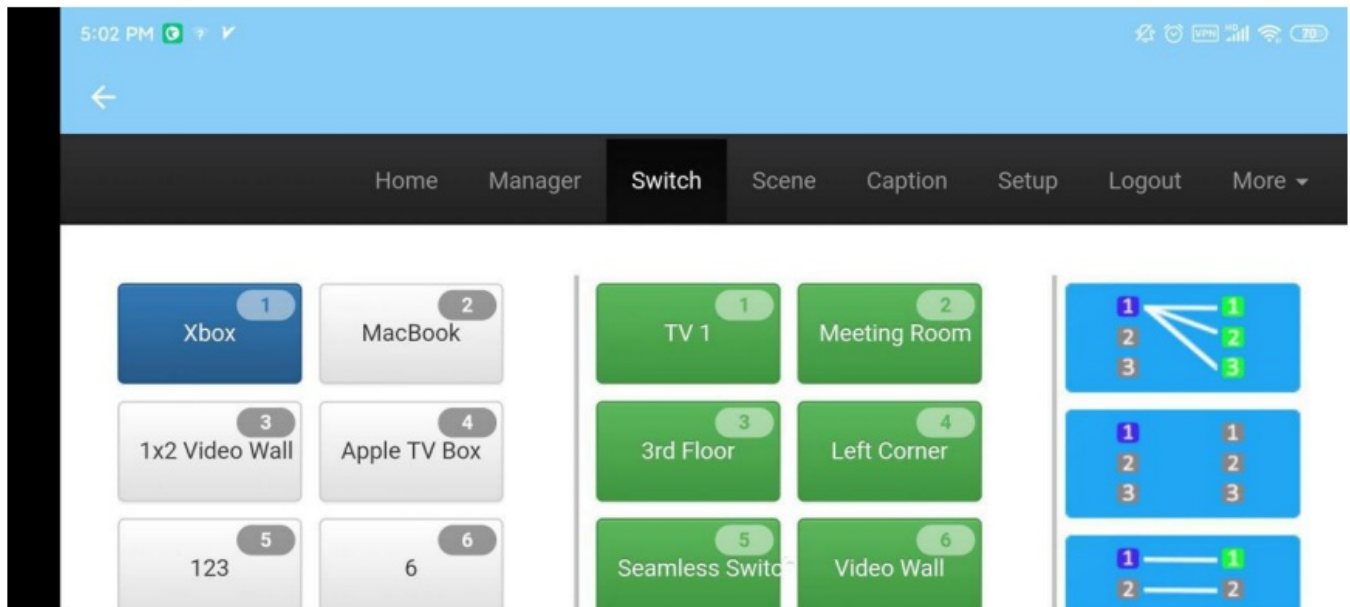
Step 1: Make sure the matrix well connected with the WIFI router, and the iPad/Android devices are connected to this same WIFI. Then open on the MCS(matrix control system) APP and Enter the IP address of the matrix switcher(the default IP addresses are: 192.168.0.80 or 192.168.1.80):



Step 2: After Enter the IP address, it will need to login, the default user name and password both are the admin:



Step 3: After log in successfully, users can do the same functions as the WEB GUI operation:



## IR Remote Control

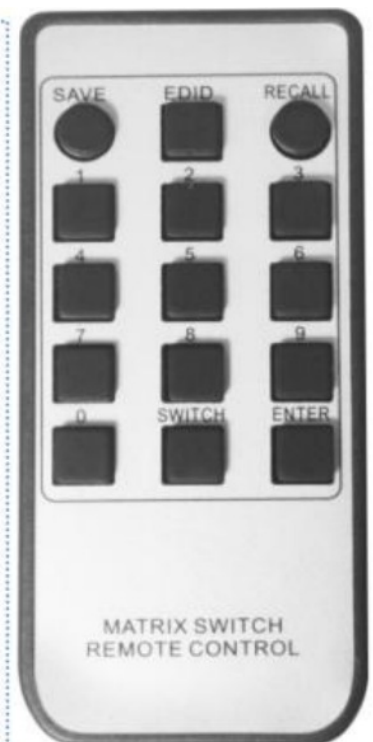
Please NOTE: The EDID is not functional on this IR remote control for this 9x9 Modular Matrix Switcher as it couldn't support the EDID management.

**Inputs Switch:**  
 number(1~9) ---> SWITCH ---> number(1~9) ---> ENTER  
**Eg: input 1 to output 1:**  
 1--> SWITCH ---> 1 ---> ENTER

**Inputs Switch to multiple outputs:**  
 number(1~9) ---> SWITCH ---> number(1~9)-->ENTER--> number(1~9)--->ENTER  
**Eg: input 2 to output 1,2,3,9:**  
 2 --> SWITCH --> 1 --> ENTER ----> 2 ---> ENTER ----> 3 ---> ENTER ----> 9 ---> ENTER

**Scene Save(total 40 scenes):**  
 number(0~9) ---> SAVE  
**Eg: Save the current switch to scene2:**  
 2--> SAVE(The LCD Screen will show 2 saved)

**Scene Recall(total 40 scenes):**  
 number(0~9) ---> RECALL  
**Eg: Recall the scene10:**  
 10 --> RECALL(The LCD Screen will show 10 loaded)



## COM Control Commands

RS232 cable with straight-through connection(USB-RS232 can be used directly to control)

Communication protocol:

Baud rate: 115200

Data bit: 8

Stop bit: 1

Check bit: None

Commands	Explanation	Function description
YAll.	Y=1,2,3,4.....	Switch Input Y to all the outputs Eg. " <b>1ALL.</b> " means switch input 1 to all outputs

All1.	One to one	Switch all the channels to be one to one. Eg.1->1 2->2 3->3.....
YXZ.	Y=1,2,3,4..... Z=1,2,3,4.....	Switch Input Y to Output Z Eg. " <b>1X2.</b> " means switch Input 1 to output 2
YXZ&Q& W.	Y=1,2,3,4..... Z=1,2,3,4..... Q=1,2,3,4..... W=1,2,3,4.....	Switch Input Y to Output Z, Q, W Eg. " <b>1X2&amp;3&amp;4.</b> " means switch Input 1 to Output 2, 3, 4
SaveY.	Y=1,2,3,4.....	Save current status to scene Y Eg. " <b>Save2.</b> " means saving current status to Scene 2
RecallY.	Y=1,2,3,4.....	Recall the saved scene Y Eg. " <b>Recall2.</b> " means recall the saved Scene 2
BeepON.	Beep sound	Buzzer on
BeepOFF.		Buzzer off
Y?.	Y=1,2,3,4.....	Check the Input Y to outputs switching status Eg. " <b>1?.</b> " means to check Input 1 switching status

**Note:**

- Every command ends with a period “.” and it can't be missing.
- The letter can be capital or small letter.
- Switch success will return as “OK”, and failed will return as “ERR”.

## **Trouble Shooting and Attention**

No signal on the display?

- Make sure all the power code well connected
- Check the display switcher and make sure it's in good condition
- Make sure the the DVI cable between the device and display are short than 7 meters
- Reconnect the DVI cable and restart the system
- Make sure the signal sources are on
- Check the cables between the devices and displays are connected correctly.
- Dial the switcher 7 to 1, then dial the switcher1,2 and choose the corresponding inputs.
- Make sure the resolution less than WUXGA(1920\*1200)/ 60HZ
- Make sure the display can support the output resolution.

## **After Sales**


### **Warranty Information**

The Company warrants that the process and materials of the product are not defective under normal use and service for 2 (2) year following the date of purchase from the Company or its authorized distributors. If the product does not work within the guaranteed warranty period, the company will choose and pay for the repair of the defective product or component, the delivery of the equivalent product or component to the user for replacement of the defective item, or refund the payment which users have made. The replaced product will become the property of the Company. The replacement product could be new or repaired. Whichever is longer, any replacement or repaired of the product or component is for a period of ninety (90) days or the remaining period of the initial warranty. The Company shall not be responsible for any software, firmware, information, or memory data contained in, stored in, or integrated with the product repaired by the customer's return, whether or not during the warranty period.

### **Warranty limitations and exceptions**

Except above limited warranty, if the product is damaged by over usage, incorrectly use, ignore, accident, unusual physical pressure or voltage, unauthorized modification, alteration or services rendered by someone other than the Company or its authorized agent, the company will not have to bear additional obligations. Except using the product properly in the proper application or normal usage

## **Documents / Resources**

<div data-bbox="124 123 290 163"><p>User Manual</p><p>3636-CHASSIS</p><p>3636-CHASSIS Modular Matrix Switcher WEB GUI</p></div> <div data-bbox="137 212 282 264"></div>	<p><a href="#">wolfpack 3636-Chassis Modular Matrix Switcher WEB GUI</a> [pdf] User Manual</p> <p>3636-Chassis Modular Matrix Switcher WEB GUI, Modular Matrix Switcher WEB GUI, Switcher WEB GUI, WEB GUI</p>
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