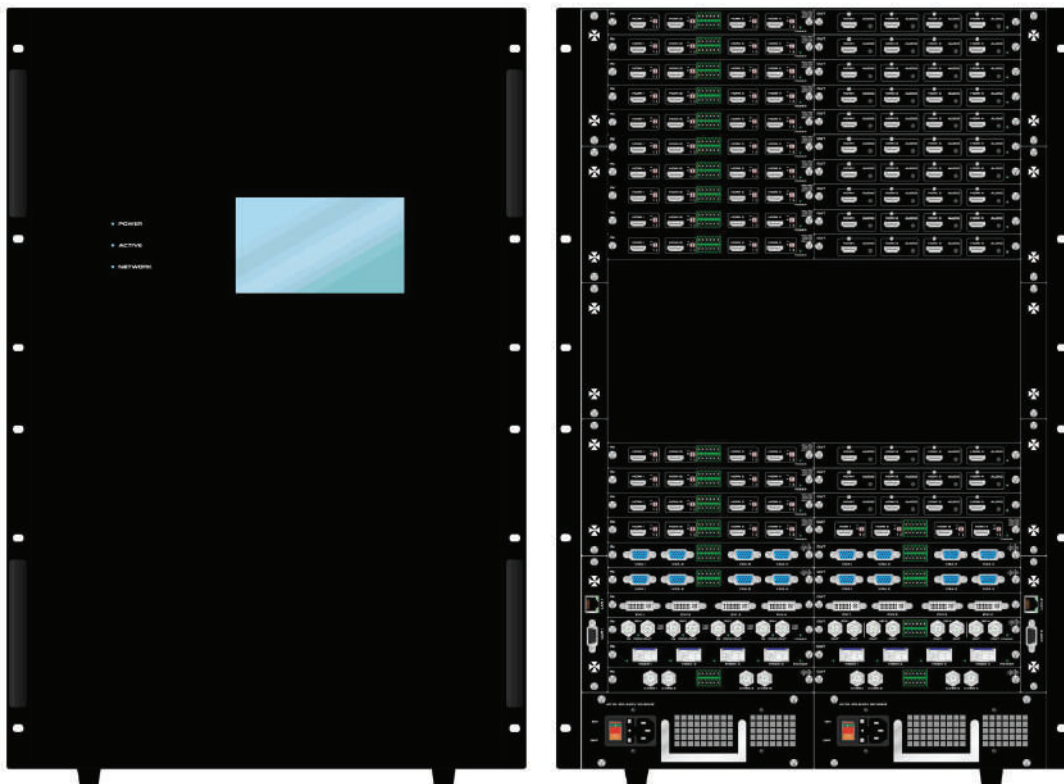


USER MANUAL

FM-8000F
80x80 Modular Matrix Chassis
Large Modular Matrix Switcher with WEB GUI, APP Control



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.

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1. Product Introduction

This is a modular matrix switcher, with 80 input slots and 80 output slots, so it can support maximum 80 inputs and 80 outputs, all the input and output cards are using 1-card 4-port, the signals are including the DVI, HDMI, HDBasT, Fiber Optic, 3G-SDI. Users are able to have mixed signals inputs and mixed signals outputs.

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.

2. Product Features

- Modular designing chassis, with 80 input slots and 80 output slots
- 1-card 4-port cards
- Supports 1080P, 4K30 and 4K60 cards for selections
- Supports DVI-I/ HDMI/ 3GSDI/ HDBaseT/ Fiber to mix using
- 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
- Supports WEB GUI, APP, 7-Inch touch screen, RS232 commands control
- Support auto saving protection and auto recovery function while power cut

3. Technical Data

Name	80x80 modular matrix chassis
Description	80x80 Modular Matrix System Chassis
Input	1-card 4-port input, including DVI/HDMI/VGA/CVBS/YPbPr/SDI/ HDBaseT/Fiber
Output	1-card 4-port output, including DVI/HDMI/VGA/CVBS/YPbPr/SDI/ HDBaseT/Fiber
Protocol Standard	Support HDMI1.4, HDMI2.0, DVI1.0. HDCP1.4, HDP2.2
Color Space	Support RGB444, YUV444, YUV422 , x.v.C standard color extension
Resolution	640×480---3840×2160@60Hz(VESA), 480i---4K@60Hz(HDTV)
Distance	HDMI/DVI: 15m/40ft ; HDBaseT: 70m/220ft; Fiber: 2km/6000ft
Control	iOS/Android Apps, WEB GUI, RS232 & 10" Color Touchscreen
Power	AC: 110V—260V 50/60Hz
Consumption	180W(No Cards)
Dimension	16U, 482*390*726(mm)/ 18.97*15.35*28.58(inch)


Weight	28kg/61.7294lbs (No Cards)
Work Temperature	0°C ~50°C
Storage Temperature	-20°C ~55°C

4. Packing Details

- Matrix switch chassis with customized configuration1 unit
- Power cord2 pcs

5. Panels

5.1 Front Panel




POWER: Indicator for the power supply status

ACTIVE: indicator for the matrix switching status

NETWORK: Indicator for the WEB GUI switching

7-INCH SCREEN: Touch screen for the matrix control

5.2 Back Panel



1: modular cooling fans

2: 20 input slots up to 80 inputs

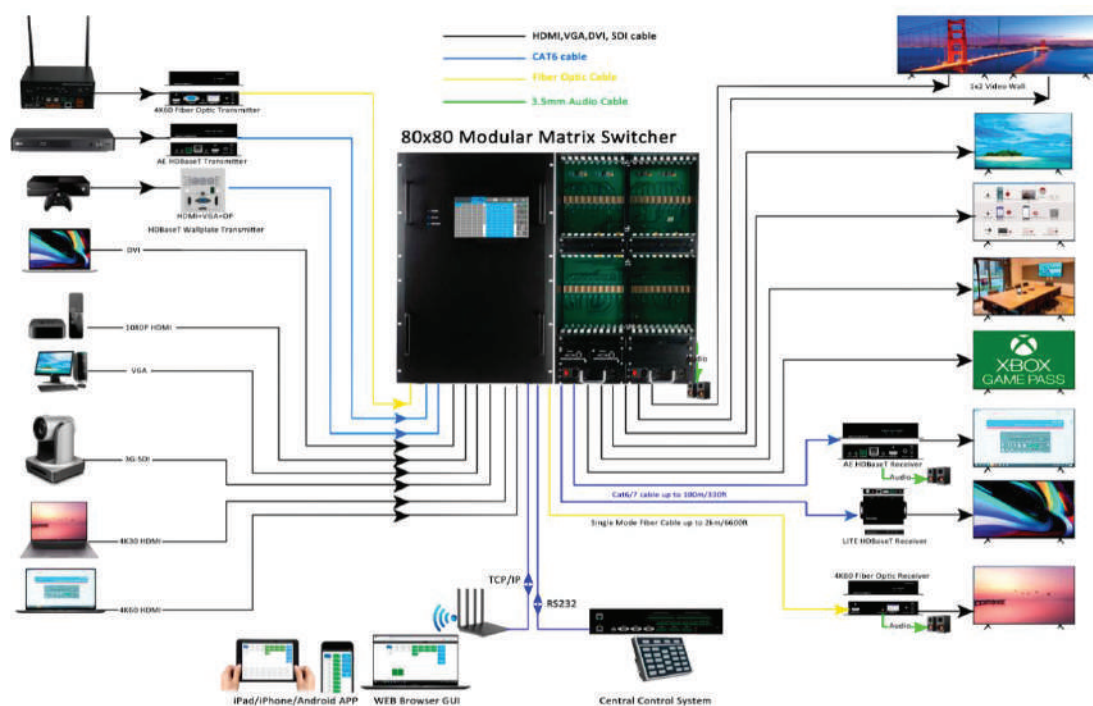
3: 20 output slots up to 80 inputs

4: Control card 1(LAN1: 192.168.0.80, COM1)

5: Control card 2(LAN2: 192.168.2.80, COM2)

6: Redundant power supply module

6. Connection Diagram



7. Operation

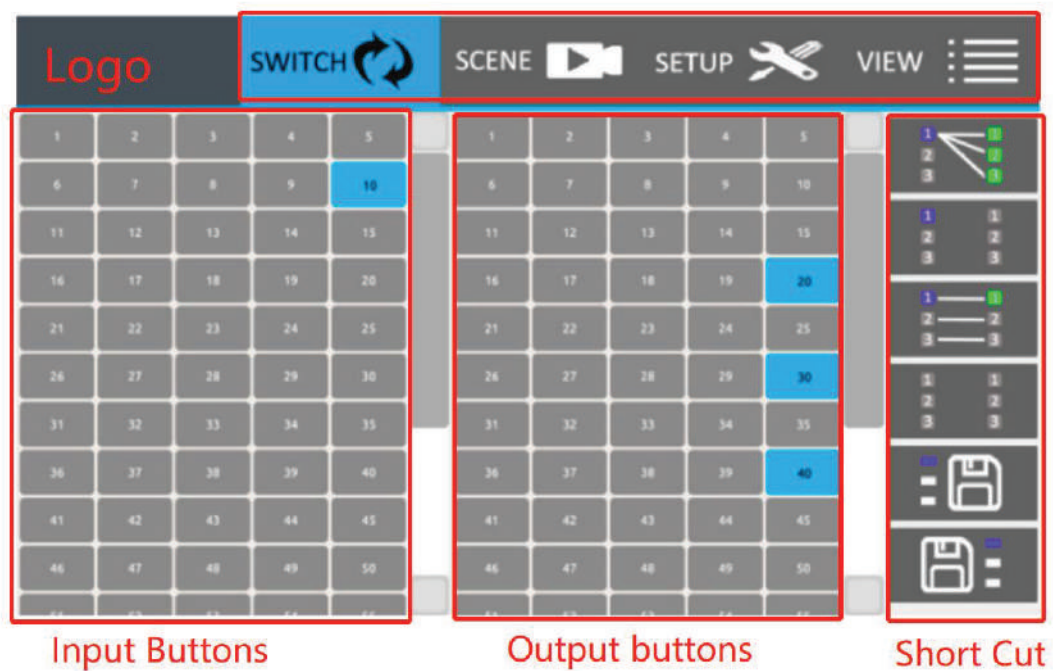
7.1 Touch Screen

After power on, it shows below interface:



Switch Icon:

After click switch icon, it shows below interface:



Eg. Switch input 10 to output 20/30/40.

Press number 10 from input buttons, and color turns to blue. Then same way to press number 20/30/40 on the output buttons area, shows as above picture.

SCENE Icon:

Total can save 24 scenes, after press SCENCE it will show below interface:



Save scene: After pressed scene icon, users can see above interface. Then users can choose any number buttons from the above 24, and then press Save. Such as, users want to save the current switching status to scene 1, users only need to press number 1 and then choose Save.(Note: This function only can be used under unlock status)

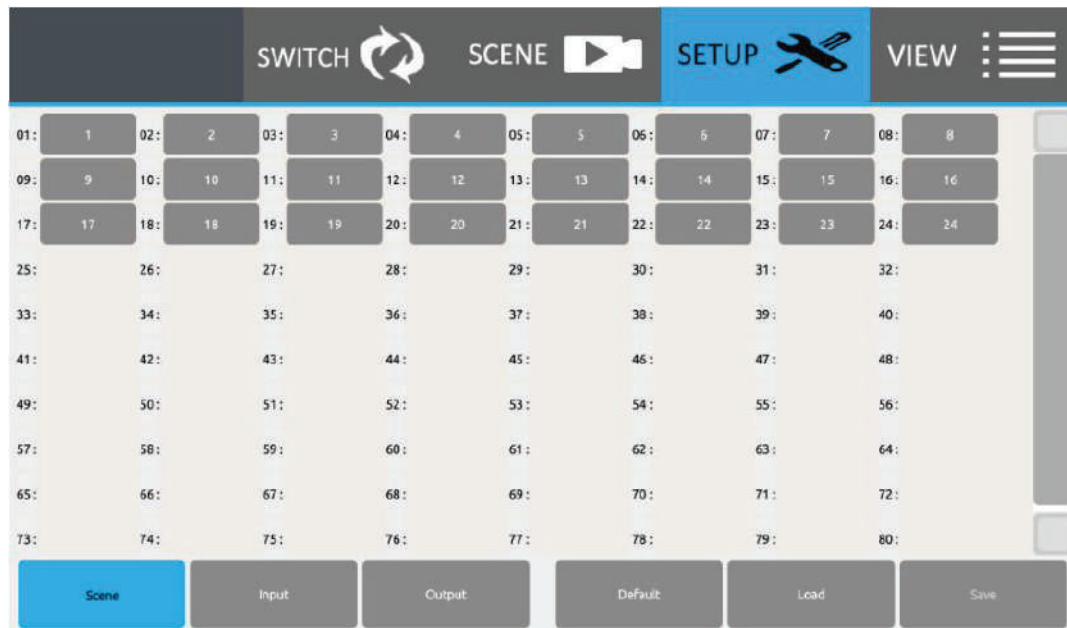
Recall scene: After the scenes saved successfully, user also can choose the scene name to recall the previous/saved switching status. Such as users want to recall scene 6, only need to press number 6 and then press load.

Users also can preview the scene switching status by both side windows next to the numbers.

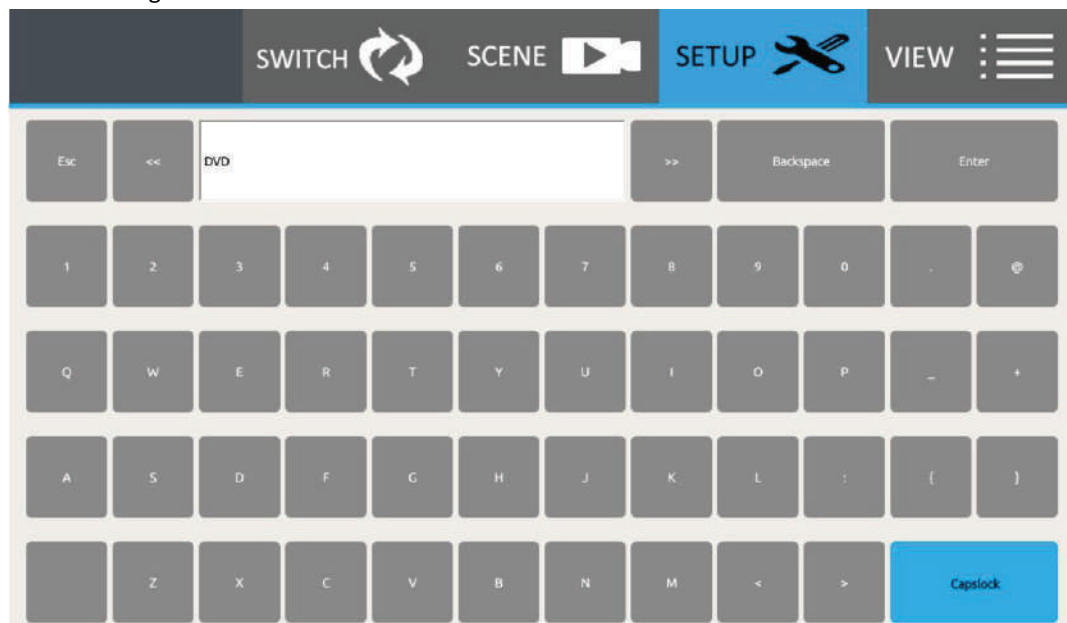
SETUP Icon:

Users can change the name of Scene, input and output here. After changing the default settings, users need to press Save to save the changes.

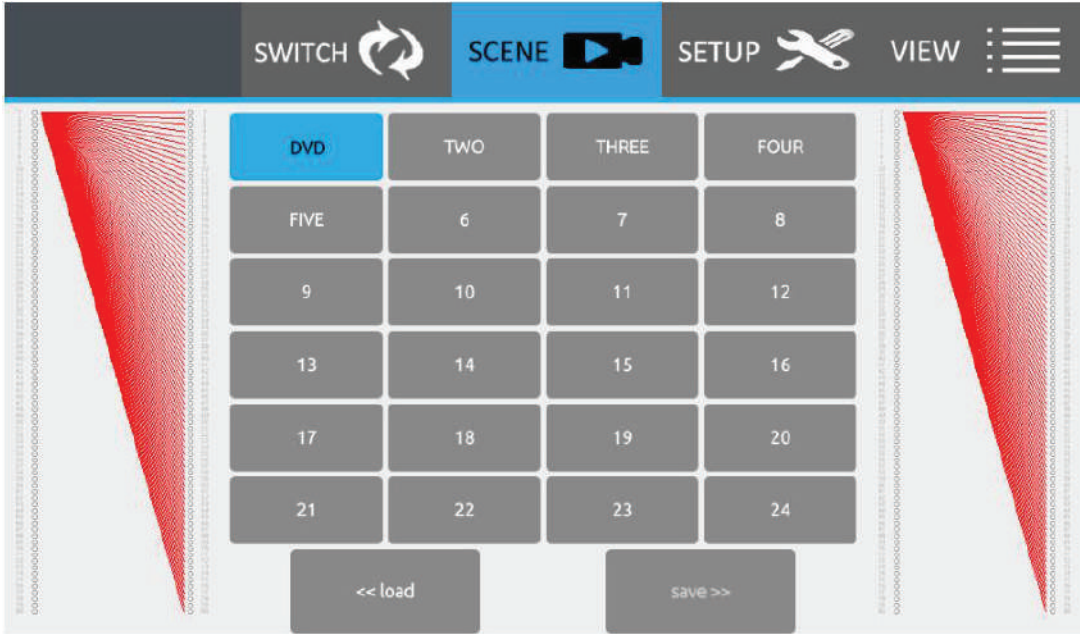
Change the name of scenes, only need to press Scene icon at the left bottom, showing as below:



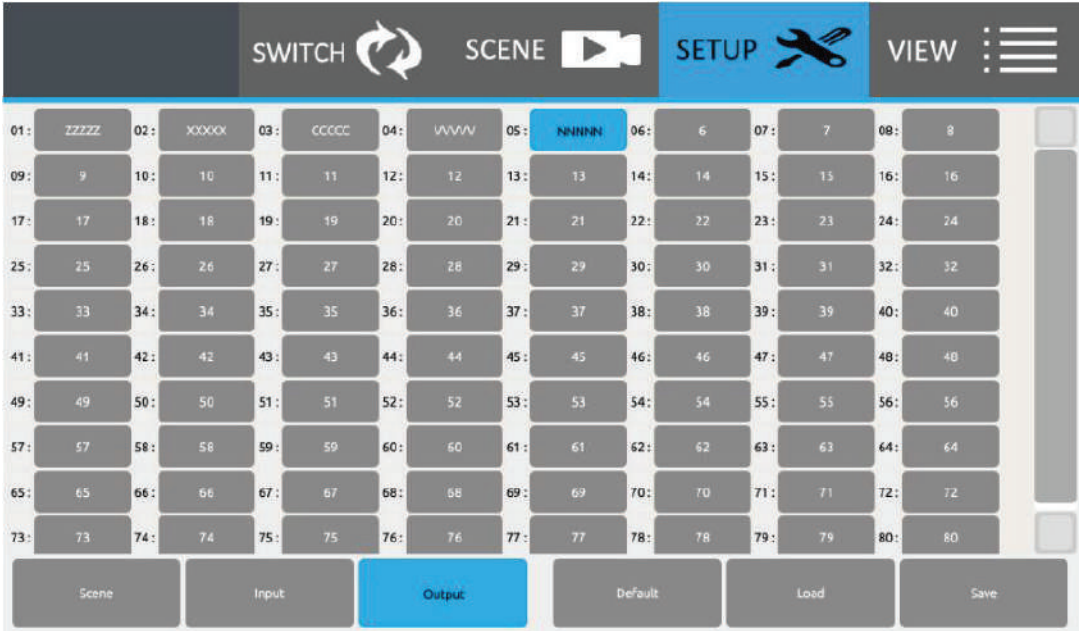
Then change to the needed names:



Users also can change all the 24 scenes name together or one by one and then to press the save button, as below:



Change the name of Input and output, press the Input or Output icons, showing as below:

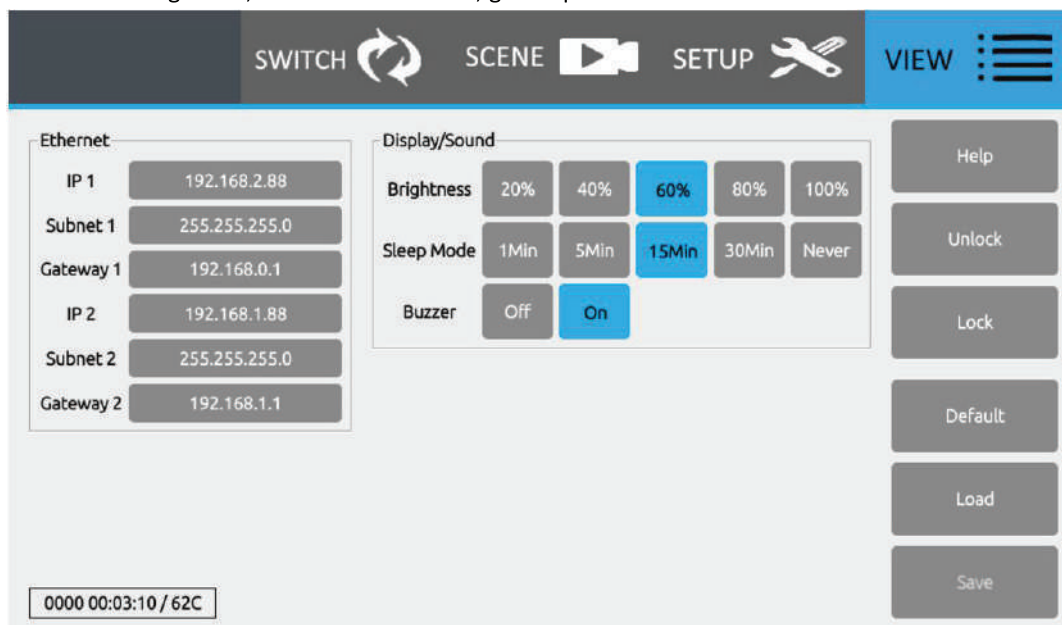


After users changed the names, and when back to the SWITCH and SCENE interface, users can see the names have been well changed, showing as below:



VIEW Icon:

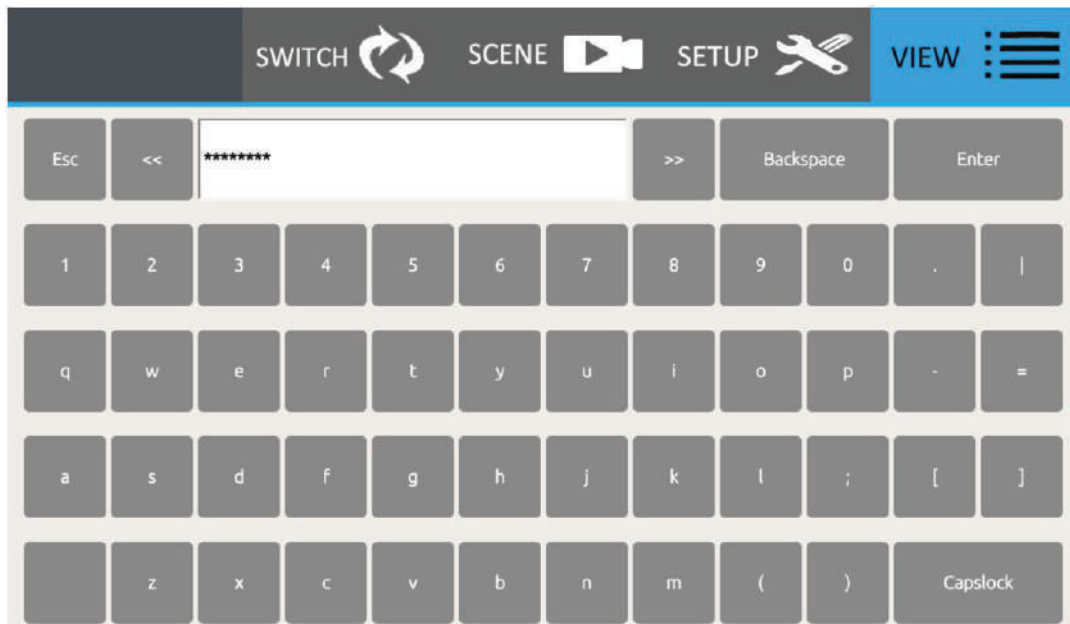
After press VIEW button, will show below interface, users can change the IP address, display and sound settings here, also unlock and lock, get help information as so on.



Unlock:

All the equipment have been locked, users need to unlock the equipment if need to change the default settings.

First, press Unlock button, and enter the default password: 12345678 and press Enter to unlock the equipment. After unlocked the equipment, users can change the names of the scene, inputs, outputs, IP address and so on.



Introduction for the shortcut icons:

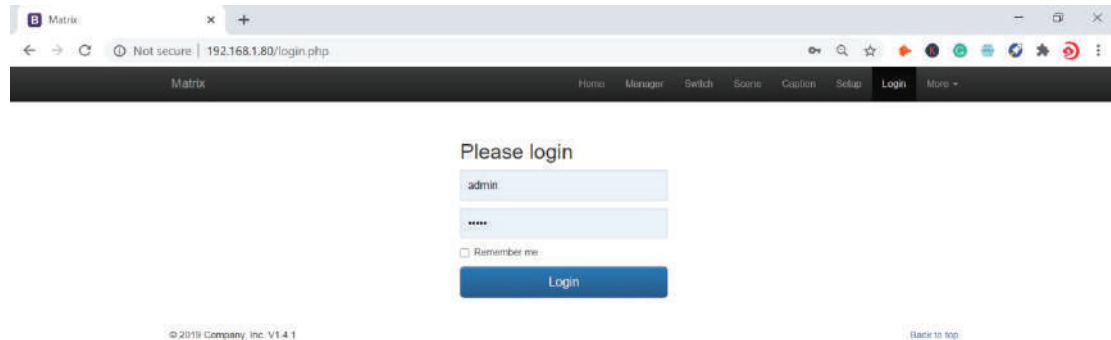
	Introduction	Example
	Switch one to all	Press the input number, then press this button to switch to all
	Close the specific input switching status	Press any input number, then press this button to close the switching status
	Switch one to one	Press this button to realize one to one switching status
	Close all the switching status	Press this button to close all the switching status
	Save scene	Press this button will turn to the scene save interface
	Recall scene	Press this button will turn to the scene recall interface

7.2 WEB control

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

7.2.1 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:

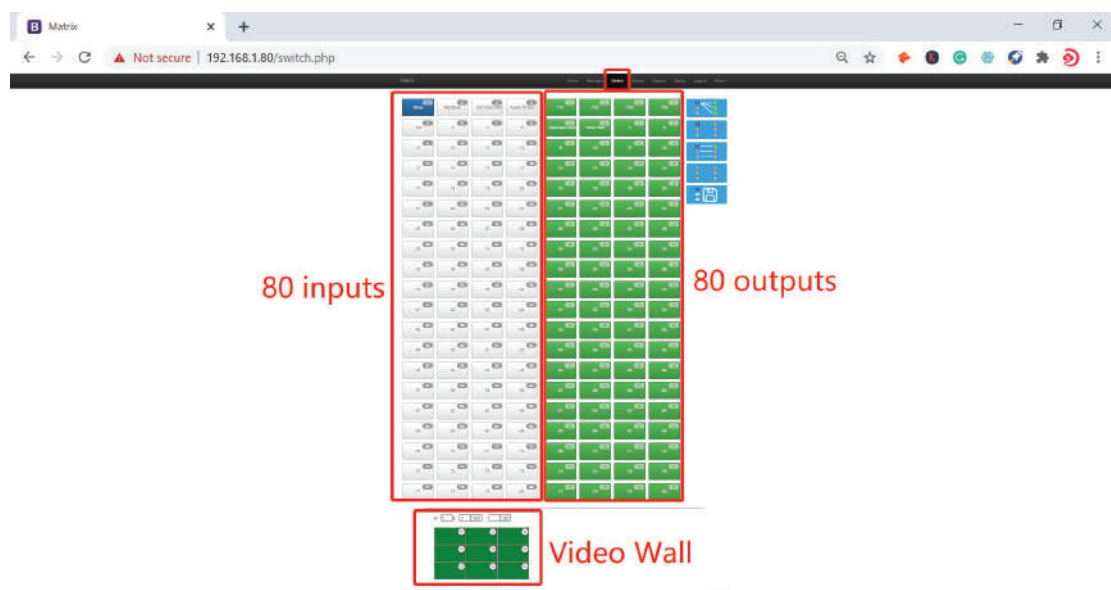


Note: The default user name and password is the same: admin, click login after entering. Please make sure the control PC is at the same IP segment.



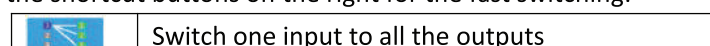
7.2.2 Switch





Switch interface:



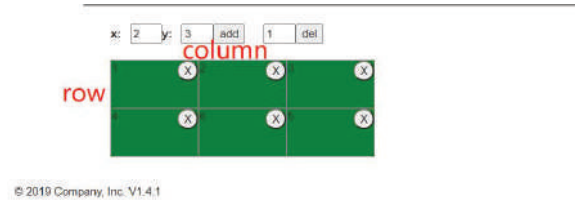
Users can do the input sources switching by clicking the Input buttons first, then pressing the Output buttons.

Or users can use the shortcut buttons on the right for the fast switching:



	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

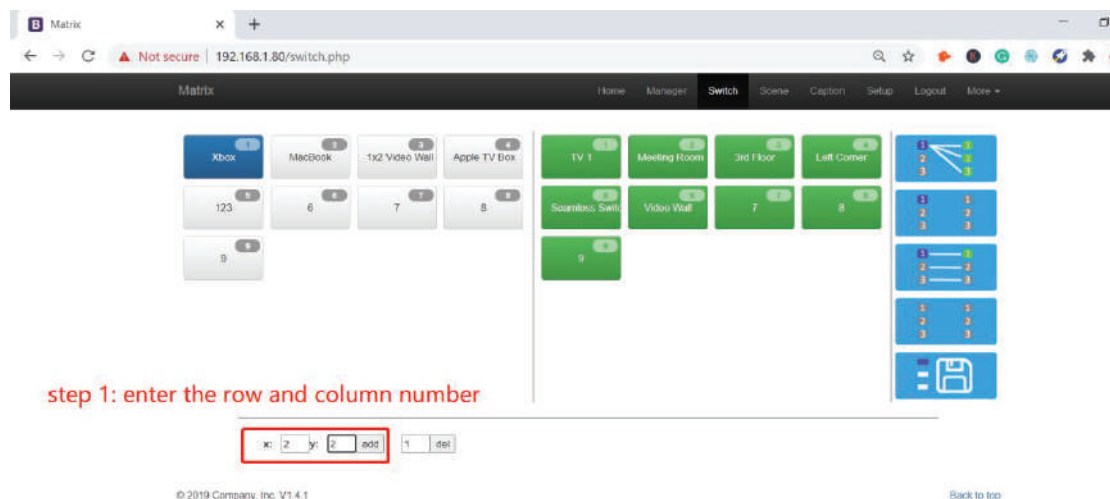
Users also can do the Video wall settings on the WEB GUI bottom by simply adding the x&y(x: for the rows; y: for column).



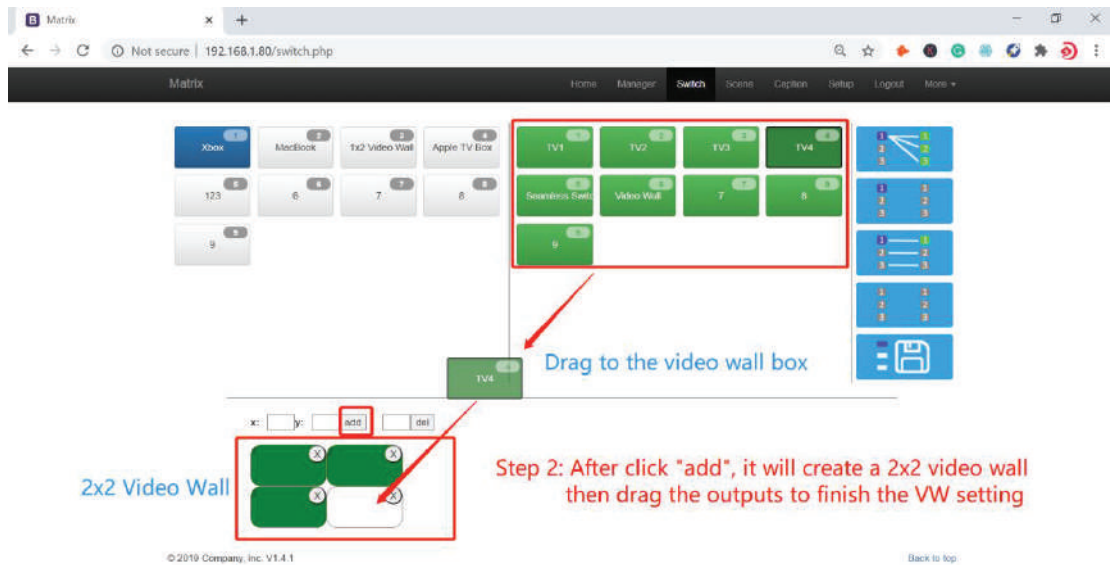
Note that this video wall function only works with the 1080P HDMI/HDBaseT and 4K60 HDMI output card only.

Below the steps to create the video walls:

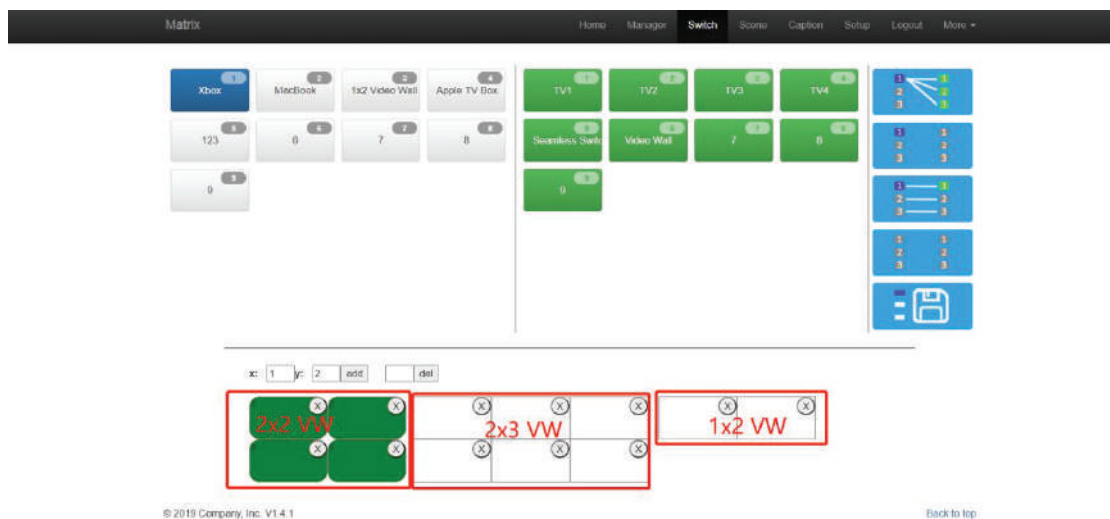
Step1: Enter the video wall Row(x) and column(y) numbers, and then click “add”, example to create a 2x2:



Step 2: Click “add” to create the 2x2 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 80x80 matrix switcher, the video wall configuration will be limited to 80.



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

