User's manual

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Matrix Switcher Software user manual

Professional Matrix Switcher SoftwareRev.1.0

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1. Interface

1.1 Panel diagram:

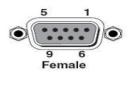


1.2 Function instructions:

- 1 shows the access matrix connected to the earth, the screw fixed the earth wire
- 2 shows the matrix 220V AC interface, and the power switch.
- 3 shows the matrix pluggable power supply
- 4 shows the input interface of the matrix RS232 serial port
- 5 shows the output interface of the matrix RS232 serial port
 C shows the matrix TCP(IP actually control part
- 6 shows the matrix TCP/ IP network control port
- 7 shows matrix pluggable signal output board card, 1-card-4-channels board card from left t right, A/B/C/D shows:1/2/3/4 increased with the board card. For example: The first board car is 1/2/3/4, the second is 5/6/7/8, and so on. The port light will be lighten when there is a signal.
- 8 shows matrix pluggable signal input board card, 1-card-4-channels board card from left t right, A/B/C/D shows:1/2/3/4 increased with the board card. For example: The first board car is 1/2/3/4, the second is 5/6/7/8, and so on. The port light will be lighten when there is a signal
- 9 shows matrix pluggable fan box.

HD digital series matrix support RS232, Ethernet control port all kinds of

system to control.



RS232 port is a 9-pin female connector. The pin descriptions are as follows

Pin number	Pin	instruction
1	N/u	No
2	Tx	Tx
3	Rx	Rx
4	N/u	No
5	Gnd	Ground
6	N/u	No
7	N/u	No
8	N/u	No
9	N/u	No

着 Device Manager		>
ile Action View Help		
• 🔿 📰 🔛 🖳 🖳 🖳 😓		
- 📇 DESKTOP-BPRNV9P		
> 👖 Audio inputs and outputs		
> 🗃 Batteries		
> 👰 Cameras		
> 🛄 Computer		
> 🔜 Disk drives		
> 🏣 Display adapters		
> 🤗 DVD/CD-ROM drives		
> 🛺 Human Interface Devices		
> 📹 IDE ATA/ATAPI controllers		
> 🚠 Imaging devices		
> 🔤 Keyboards		
> III Mice and other pointing devices		
> 🛄 Monitors		
> 🚽 Network adapters		
Y 🛱 Ports (COM & LPT)		
🙀 USB Serial Port (COM3)		
> 🚍 Print queues		
> 🛱 Printers		
> Processors		
> 🙀 secure biometric devices		
> Software devices		
> 🧃 Sound, video and game controllers		
> 🚰 Storage controllers		
> 🏣 System devices		
s 📋 Universal Serial Rus controllers		

Fig1

Before using the computer to control matrix, please install the serial port line driver. The following is the operation mode and steps of the control software, please read the instructions before operation.

2. Software setting

2.1 Software interface

Matrix Control System Set(S) Plans(P)		- 0
sconnect Save Plan Call Plan		Matrix Channel: IN_1
1-1:HDMI01	1-2:HDMI01	1–3
2-1:HDMI01	2-2:HDMI01	2-3
3–1	3–2	3-3
eneral User Super User		Connection Status: COM3Conne

Start the software, operation interface window as below:



2.2 Communication setting

Click up-left "Set(S)", then select "Com Setting(C)", at the Communication Setting interface, Splicing Equipment part, COM select COM 3; at the HDMI Matrix part, click $\sqrt{}$ in front of Matrix interaction(Meanwhile do not $\sqrt{}$ other matrix series). if use net matrix, input IP address, for IP modification method, please check Chapter 4.

Communication Se		
DVI Matrix		
◯ Net	IP Address	COM Select
	192.168.201.192	COM3 ~
Serial	Port	Baud Rate
□ Matrix Interaction	23	9600 ~
HDMI Matrix		
◯ Net	IP Address	COM Select
Carial	192.168.201.192	COM3 ~
Serial	Port	Baud Rate
☑ Matrix Interaction	23	9600 ~
	V OK OK	rsh

Fig 3

2.3 Splice setting

Click up-left "Set(S)", then select "Video Well Setting(p)", for example the 3*3 Video Well Setting as bellow:

🖭 Video Wall Setting			_	\times
Row	Column 3	*	ОК	

Fig 4

2.4 Matrix setting

Click up-left "**Set(S)**", then select "**Matrix setting(M)**", default brand is single switch, if you user other brand splicing board, first you have to add switching machine protocol, then you can control the monitor Startup & Shutdown.

Matrix Control System Set(S) Plans(P)		- 🗆 X
Connect Save Plan Call Plan		Matrix Channel: IN_1 ~
📴 Matrix Setting		- 🗆 X
DVI Matrix [sync_switch] v ID:	00 sync_switch v	ID: 00
Time Setting Response 200 I Time 1	Input Channel Input Channel 32 Ime Setting	
	🔶 ОК	
3-1	3–2	3-3
General User Super User		Connection Status: COMISCOMIDisconnect

Fig 5

2.5 Matrix channel switching operation

In the upper right corner of the software, select the input channel, then select the corresponding screen (lattice) and right click to select HDMI (if the matrix output is DVI, select DVI), the screen will switch to the selected signal. Select multiple at the same time when selecting the screen (lattice), then right click to select HDMI, and multiple screens will switch to the selected input signal at the same time.

🐙 Matrix Control System		- D X
Set(S) Plans(P) Disconnect Save Plan Call Plan		Matrix Channel: IN_1 ~
I-1:HONIO1	1-2:HDMI01	1-3
2-1:HDMI01	2-2:HDMI01	2–3
3–1	3-2	3~3
General User Super User		Connection Status: COMBConnect

2.6 Plan function

The plan function includes: saving the plan, call the plan, and pre-planning the round play. Before using the plan function, be sure to open the communication connection. If the communication connection isn't opened, the plan function will not be available. 1, save the plan: save the plan can only save up to 16 pre-plans, if the saved plan has already reached 16, continue to save when the "pre-plan is full" prompt window will appear as shown in Figure 7, if you want to continue to save the plan, then To delete a saved plan. Go to the "Save Plan" screen as shown in Figure 9. Click "Pre-plan" in the menu bar of the main interface of the software, click "Save Plan" in the drop-down menu that appears, and the "Save Plan" window will pop up, as shown in Figure 12. The save plan name can be changed.



Figure7 plan full

💻 Matrix C	Contr	rol S	System												_	×
Set(S)	Pla		s(P)			1										
Disconne) () () ()	С	ave Pl Call Pla Round	n(C	.)									Matrix Channel	IN_1	~
						Fi	gure 8	Enter	the	save	plan	inte	erface	!		
					🖭 Plar	ns Save			_		_		×			
				-		Name:	Plan10					Save				

Figure 9 Save the plan interface

Call the plan: Enter the "call plan" interface as shown below. Click the "plan" in the menu bar of the main interface of the software, click "Call plan" in the drop-down menu that appears, and the "call plan" window will pop up. As shown in Figure 10, double-click the selected plan to get the plan. Right mouse button to delete, rename the plan



Figure 10 Enter the call plan interface

🗷 Call Plan —								
Plan List:								
Plan1								
Plan2								
Plan3 Plan4								

Figure 11 Call the plan interface

💴 Call P	lan —	×
	Plan List:	
	Plan1	
	Plan2	
	Plan3 🗰 Delete(D)	
	Plan4 - Rename(R)	

Figure 12 Delete, rename the plan

3, round plan : Enter the "round plan" interface as shown in Figure 13. Click the "plan" in the menu bar of the main interface of the software, click " round plan" in the drop-down menu that appears, and the "round plan" window will pop up, as shown in Figure 13. The interface of the " round plan" is shown in Figure 15.



Figure 13 Enter the round plan interface

	Round Plan			- 🗆 X
Đ	🗌 Plan1	🗌 Plan2	🗌 Plan3	🗌 Plan4
	🗌 null	null	🗌 null	🗌 null
	null	🗌 null	🗌 null	null
Ð	null	null	null	null
		Intervals(S)	► Start	

Figure 14 round plan interface

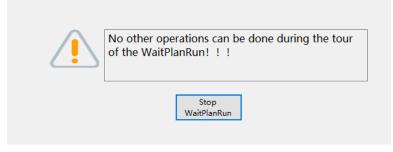


Figure 15 round plan interface

3. Matrix IP setting

Default static IP address is 192.168.1.192, login pot is 23. The communication must first make the computer and the equipment under the same network segment. Modify the local computer connection as shown in the figure below:

Internet Protocol Version 4 (TCP/IPv4)	Properties			
General				
You can get IP settings assigned automatically if your network supports this capability. Otherwise, you need to ask your network administrator for the appropriate IP settings.				
Obtain an IP address automatically				
• Use the following IP address:				
IP address:	192.168.1.10			
Subnet mask:	255.255.255.0			
Default gateway:	192.168.1.1			
Obtain DNS server address automatically				
O Use the following DNS server addresses:				
Preferred DNS server:				
<u>A</u> lternate DNS server:	· · ·			
Validate settings upon exit	Ad <u>v</u> anced			
	OK Cancel			

Fig 16

In actual application, if the IP address need to be changed, enter the current IP address of the machine (default is 192.168.1.192) in the browser address bar, and log in the configuration network module interface.

Reconfigure	Current Configuration Port number 23port
	MAC Address: (Must restart the equipment)

Fig 17

Click "Current configure", Enter the static IP setting interface, input right IP address and the gateway, then click **OK**, connect the matrix and Router or switch with net

	2	
Current configuration Reconfigure	Reconfigure (Port Number 00–99) IP Address: 192.166.1.192 Mask Address: 255.255.255.0 The Gateway: 192.166.1.1 Port Number: 23	

4. Note

4.1 Super user password is 123321, they can set the software menu and configuration ID

4.2 If the parameter modification needs to be saved every time, or if you want to save a certain state before power failure, you need to click **Save changes**, and do not carry out other operations before the "**saving!**"or "**Save ok**" disappear;

4.3 The output interface of the matrix shall be wired corresponding

4.4 Please click **Produce Identifier** for the first time, and then set the ID before splicing

4.5 If the screen does not show the identification code, please check whether the control computer is connected correctly with the control serial line of the large screen.