KNVMA3444
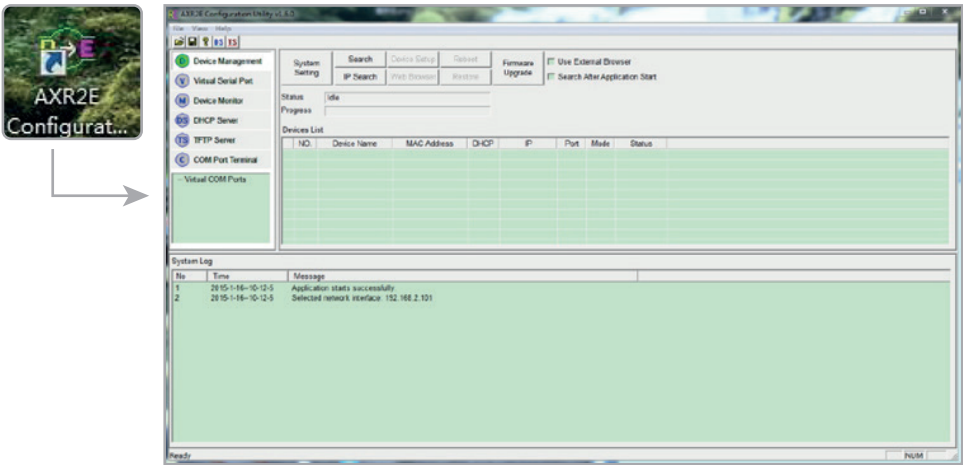# 4-to-4 port HDMI™ matrix
4x HDMI™ input - 4x HDMI™ output

IP & RS232 instruction

KNVMA3444
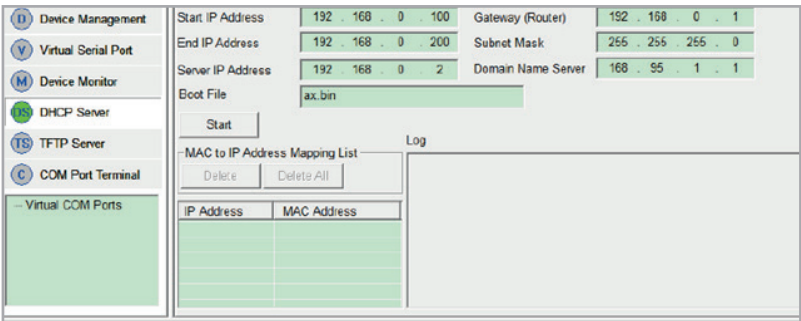# 4 - to - 4 port matrix IP control:

1) First install the file: AXR2E_Configuration_Utility_Setup_32bit_v10200.exe
2) Connect the compute to the matrix's LAN interface with a CAT5e/6 cable, then turn on the matrix.
3) Open AXR2E configurator

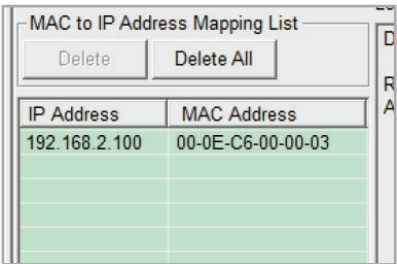4) DHCP should be opened if matrix connects directly to the computer.

Click DHCP Server

Start / End IP address: Fill in the distributed IP in DHCP.
Server IP address: current IP address. Note that the computer IP can not be obtained automatically if connect directly to matrix.
gateway/subnet/domain name server: default values or user-defined are available

Press Start button to start DHCP
5) Restart the matrix power supply and below IP address of matrix will be shown.

6) If the matrix is connected by router repeater device, such as router which open the DHCP, please ignore Step 3 and Step 4.
7) Switch to Device Management, press the Search button to find the device.

| System Setting | Search | Device Setup | Reboot | Firmware Upgrade | ☐ Use External Browser |
| | IP Search | Web Browser | Restore | | ☐ Search After Application Start |

Status   Idle
Progress

Devices List

| NO. | Device Name | MAC Address | DHCP | IP | Port | Mode | Status |

Devices Search ☒

○ Multicast   ⦿ Broadcast   Search

IP   IP   Cancel
225.1.2.3   255.255.255.255

TTL
1   ☑ Loopback

Message
Application starts successfully.
Selected network interface: 192.168.2.1
DHCP server @ is running on UDP port of successfully.

8) It will be shown in the list if the device has been found.

| System Setting | Search | Device Setup | Reboot | Firmware Upgrade | ☐ Use External Browser |
| | IP Search | Web Browser | Restore | | ☐ Search After Application Start |

Status   Idle
Progress   ▮▮▮▮▮▮▮▮▮▮▮▮▮▮▮▮▮▮▮▮▮▮▮▮

Devices List

	NO.	Device Name	MAC Address	DHCP	IP	Port	Mode	Status
☑	1	DSM1	00-0E-C6-00-00-03	Enable	192.168.2.100	5000	Server	Idle

9) After device selected, pressing the Web Browser button to start build-in browser. Or select the Use External Browser button to open from external browser.
10) Enter username and password, the default are both admin.

Login

Username   admin

Password   •••••

Login

11) After entering the browser interface, the function introductions are as below: (logout: exit browser, Reboot: restart matrix)

Switch: channel change

Output	Current Input	Input	Operation
• Output 1	1	Select Input ▾	Apply
• Output 2	2	Select Input ▾	Apply
• Output 3	3	Select Input ▾	Apply
• Output 4	4	Select Input ▾	Apply
• Output 5	5	Select Input ▾	Apply
• Output 6	6	Select Input ▾	Apply
• Output 7	7	Select Input ▾	Apply
• Output 8	8	Select Input ▾	Apply

Switch   **EDID**   **Basic Setting**   **Security**   Logout   Reboot

Switch Settings

Switch Setting Information

EDID: EDID settings

EDID Settings

Source	Current Mode	EDID Mode	Display	Operation
• SOURCE 1:	Fixed Mode 1	Fixed Mode 3 ▾	Fixed EDID Mode ▾	Apply
• SOURCE 2:	Fixed Mode 1	Fixed Mode 4 ▾	Fixed EDID Mode ▾	Apply
• SOURCE 3:	Fixed Mode 1	Fixed Mode 6 ▾	Fixed EDID Mode ▾	Apply
• SOURCE 4:	Fixed Mode 1	Fixed Mode 3 ▾	Fixed EDID Mode ▾	Apply
• SOURCE 5:	Fixed Mode 1	Fixed Mode 3 ▾	Fixed EDID Mode ▾	Apply
• SOURCE 6:	Fixed Mode 1	Fixed Mode 4 ▾	Fixed EDID Mode ▾	Apply
• SOURCE 7:	Fixed Mode 1	Fixed Mode 1 ▾	Fixed EDID Mode ▾	Apply
• SOURCE 8:	Fixed Mode 1	Fixed Mode 2 ▾	Fixed EDID Mode ▾	Apply

EDID Mode Information

Fixed Mode 1:reserve
Fixed Mode 2:EDID Full-HD(1080p@60) 24bit -2D video & 2.1ch audio
Fixed Mode 3:EDID Full-HD(1080p@60) 24bit -2D video & 7.1ch audio
Fixed Mode 4:EDID Full-HD(1080p@60) 36bit -2D video & 7.1ch audio
Fixed Mode 5:EDID Full-HD(1080p@30)(1080i@60)(720p@60) 36bit -2D video & 2.1ch audio
Fixed Mode 6:4Kx2K
Fixed Mode 7:EDID Full-HD(1080p@30)(1080i@60)(720p@60) 24bit -2D video & 2.1ch audio
Learning Mode:Copy the EDID from HDMI Display to HDMI Source

Basic Settings: Network settings

Switch	EDID	Basic Setting	Security

Network Settings

DHCP Client	Enable
Static IP Address	192.168.0.3
Static Subnet Mask	255.255.255.0
Static Default Gateway	192.168.0.1
Static DNS Server	168.95.1.1
Connection Type	TCP
Transmit Timer	100
	Please enter an integer between 10~65535 ms
Server/Client Mode	Server
Server Listening Port	5000
	Please enter an integer between 1024~65535
Client Destination Host Name/IP	
	Please enter host name or IP address(e.g. hank-tech.com or 10.4.1.100)
Client Destination Port	5000

Security: Change Username/Password settings

Logout   Reboot

Switch	EDID	Basic Setting	Security

Change Username Setting

New Username	

Apply   Cancel

Change Password Setting

Old Password	
New Password	
Confirm Password	

Apply   Cancel

KNVMA3434

4 - to - 4 port Matrix RS232 control:

Operate matrix by RS232 port and switch to Com Port Terminal.
After serial parameter set, click Open Port.

RS232 instruction (help: inquiry all instructions description)

1) Enter Username and Password (Username: admin) (Password: admin)
2) Channel switching instruction: swo-x-y-end, x stands for output, starting from 0. Y stands for input, starting from 0.
3) EDID changing instruction: edo-x-y:z-end, x stands for output, starting from 0. y stands for EDID selection mode, the range is from 0 to 7, when x is from 0 to 6, no need to consider what z is.