KVMSwitchTech ANI-16-4K60 16×16 HDMI Matrix Switcher with Smart EDID Management Instruction Manual

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KVMSwitchTech ANI-16-4K60 16×16 HDMI Matrix Switcher with Smart EDID Management

PACKAGE CONTENTS

Before attempting to use this unit, please check the packaging and make sure the following items are contained in

the shipping carton:

- ANI-16-4K60 16×16 HDMI Matrix Switcher
- IR Remote Control
- Phoenix Connector
- 100~240V AC 50/60Hz Power Cable (IEC320 C13 to NEMA 5-15P)

SAFETY INFORMATION

1. To ensure the best results from this product, please read this manual and all other documentation before operating your equipment. Retain all documentation for future reference.
2. Follow all instructions printed on unit chassis for proper operation.
3. To reduce the risk of fire, do not spill water or other liquids into or on the unit, or operate the unit while standing in liquid.
4. Make sure power outlets conform to the power requirements listed on the back of the unit. Keep unit protected from rain, water and excessive moisture.
5. Do not attempt to clean the unit with chemical solvents or aerosol cleaners, as this may damage the unit. Dust with a clean dry cloth.
6. Do not use the unit if the electrical power cord is frayed or broken. The power supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords and plugs, convenience receptacles, and the point where they exit from the appliance.
7. Do not force switched or external connections in any way. They should all connect easily, without needing to be forced.
8. Always operate the unit with the AC ground wire connected to the electrical system ground. Precautions should be taken so that the means of grounding of a piece of equipment is not defeated.
9. AC voltage must be correct and the same as that printed on the rear of the unit. Damage caused by connection to improper AC voltage is not covered by any warranty.
10. Turn power off and disconnect unit from AC current before making connections.
11. Never hold a power switch in the “ON” position.
12. This unit should be installed in a cool dry place, away from sources of excessive heat, vibration, dust, moisture and cold. Do not use the unit near stoves, heat registers, radiators, or other heat producing devices.
13. Do not block fan intake or exhaust ports. Do not operate equipment on a surface or in an environment which may impede the normal flow of air around the unit, such as a bed, rug, carpet, or completely enclosed rack. If the unit is used in an extremely dusty or smoky environment, the unit should be periodically “blown free” of foreign dust and matter.
14. To reduce the risk of electric shock, do not remove the cover. There are no user serviceable parts inside. Refer all servicing to qualified service personnel. There are no user serviceable parts inside.
15. When moving the unit, disconnect input ports first, then remove the power cable; finally, disconnect the interconnecting cables to other devices.
16. Do not drive the inputs with a signal level greater than that required to drive equipment to full output.
17. The equipment power cord should be unplugged from the outlet when left unused for a long period of time.
18. Save the carton and packing material even if the equipment has arrived in good condition. Should you ever need to ship the unit, use only the original factory packing.
19. Service Information Equipment should be serviced by qualified service personnel when:

- **A.** The power supply cord or the plug has been damaged.
- **B.** Objects have fallen, or liquid has been spilled into the equipment.
- **C.** The equipment has been exposed to rain.
- **D.** The equipment does not appear to operate normally, or exhibits a marked change in performance.
- **E.** The equipment has been dropped, or the enclosure damaged.

INTRODUCTION

Dear Customer
Thank you for purchasing this product. For optimum performance and safety, please read these instructions carefully before connecting, operating or adjusting this product. Please keep this manual for future reference.

INTRODUCTION
The ANI-16-4K60 is a high performance HDMI Matrix Switcher. It can switch (16) HDMI HD sources to (16) HDMI HD display devices simultaneously. The OLED screen on the front panel will display the input and output port in real time. It supports a maximum resolution up to 4K60Hz YUV 4:2:0 and supports HDCP 2.2. Select smart EDID management via a PC with the Web GUI. Control provided by front-panel buttons, IR remote control, RS-232, LAN, and Web GUI. This product has a 3 year warranty.

SAFETY PRECAUTIONS
Please read all instructions before attempting to unpack, install or operate this equipment and before connecting the power supply. Please keep the following in mind as you unpack and install this equipment:• Always follow basic safety precautions to reduce the risk of fire, electrical shock and injury to persons.

- To prevent fire or shock hazard, do not expose the unit to rain, moisture or install this product near water.
- Never spill liquid of any kind on or into this product.
- Never push an object of any kind into this product through any openings or empty slots in the unit, as you may damage parts inside the unit.
- Do not attach the power supply cabling to building surfaces.
- Use only the supplied power supply unit (PSU). Do not use the PSU if it is damaged.
- Do not allow anything to rest on the power cabling or allow any weight to be placed upon it or any person walk on it.
- To protect the unit from overheating, do not block any vents or openings in the unit housing that provide ventilation and allow for sufficient space for air to circulate around the unit.

DISCLAIMERS
The information in this manual has been carefully checked and is believed to be accurate. We assume no responsibility for any infringements of patents or other rights of third parties which may result from its use. We assume no responsibility for any inaccuracies that may be contained in this document. We make no commitment to update or to keep current the information contained in this document. We reserve the right to make improvements to this document and/ or product at any time and without notice.

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are associated.

FEATURES & SPECIFICATIONS

FEATURES

- HDMI 2.0b (4K60Hz YUV 4:2:0), HDCP 2.2 / HDCP 1.4 and DVI 1.0 compliant
- Supports resolutions up to 4K2K@50/60Hz (YUV 4:2:0) for all HDMI ports
- Supports pass-through audio up to LPCM 7.1CH, Dolby TrueHD, Dolby Digital Plus and DTS HD Master Audio
- Supports HDR-10 and Dolby Vision
- Supports smart EDID management
- Supports front-panel button, IR remote control, RS-232, LAN and Web GUI control
- Retains settings during power cycle
- 1U rack mounted design with metal enclosure

SPECIFICATIONS

- **Inputs:** (16) HDMI Type A [19-pin female] / LAN [RJ45, Control] / RS-232 [3-pin Phoenix, Control]
- **Outputs:** (16) HDMI Type A [19-pin female] / OLED display screen
- **HDMI Compliance:** HDMI 2.0b
- **HDCP Compliance:** HDCP 2.2 and HDCP 1.4
- **Video Bandwidth:** 10.2Gbps
- **Video Resolutions:** 4K2K@50/60Hz YUV4:2:0, 4K2K@30Hz YCbCr / YUV 4:4:4, 1080p@60Hz YCbCr4:4:4 / 4:2:2
- **Color Depth:** 8/10/12-bit (1080p60Hz, YCbCr4:4:4) 8-bit (4K60Hz, YUV 4:2:0)
- **Color Space:** YCbCr 4:4:4 / 4:2:2, YUV4:2:0
- **HDMI Audio Formats:** LPCM 7.1CH, Dolby TrueHD, Dolby Digital Plus and DTS HD Master Audio
- **ESD Protection Human Body Model:**
  - ± 8kV (air-gap discharge)
  - ± 4kV (contact discharge)
- **Housing:** Metal Enclosure
- **Color:** Black
- **Dimensions (WxDxH):** 19* x 12 x 1.75 in (440x303x44.5mm) (*19in with rack mount bracket)
- **Weight:** 9.25 lb / 4.2kg
- **Power Supply:** 100~240V AC 50/60Hz
- **Power Consumption:** 31.3W
- **Operating Temperature:** 0°C ~ 40°C / 32°F ~ 104°F
- **Storage Temperature:** -20°C ~ 60°C / -4°F ~ 140°F
- **Relative Humidity:** 20~90% RH (non-condensing)

FRONT & rear PANELS

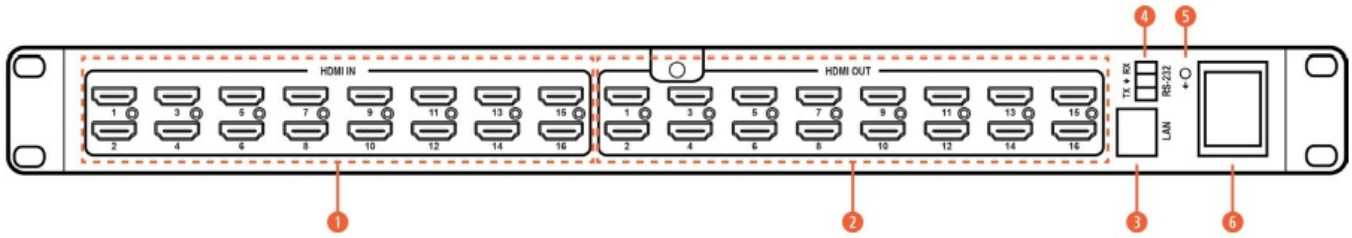
FRONT PANEL

1. **OLED DISPLAY:** Displays current input/output port.
2. **IR WINDOW:** IR receiver window, receives IR remote control signal for this device only.
3. **LEFT/RIGHT/UP/DOWN/OK BUTTONS:** The product has power off remember function. After the power cycle, the OLED screen will display the input and output port of the last saved configuration.
    - **LEFT BUTTON:** The INPUT port on the OLED screen will flicker when you press the left button. Use the 'UP' or 'DOWN' buttons to select the previous or the next input source. Then press the 'OK' button to confirm.
    - **RIGHT BUTTON:** The OUTPUT port on the OLED screen will flicker when you press the right button. Use the 'UP' or 'DOWN' buttons to select the pervious or the next output display. Then press the 'OK' button to confirm.
    - **UP AND DOWN BUTTON:** 'UP' button is used to increase number and 'DOWN' button is used to decrease number.
4. **POWER BUTTON:** Pressing the button to power on the product and press 5 times to place in standby status.

NOTE: TURN ON/OFF THE HDCP:

- **TURN HDCP ON:** Press and hold the front panel "OK" button for 10 seconds. The front panel LED screen "ON" and flicker. At this time, you have turned ON the HDCP function and output HDCP will follow the input signal HDCP. The ANI-16-4K60 will reboot.
- **TURN HDCP OFF:** Press and hold the front panel "OK" button for 10 seconds. The front panel LED screen "OFF" and flicker. At this time, you have turned OFF the HDCP function and output HDCP will no longer follow the input signal HDCP. The ANI-16-4K60 will reboot.

REAR PANEL



1. **HDMI IN (1~16):** HDMI input port, connects to HDMI source devices with a HDMI cable.
2. **HDMI OUT (1~16):** HDMI output port, connects to HDMI display devices such as TVs or Monitors with a HDMI cable.
3. **LAN:** Connects to an active Ethernet link with a RJ-45 cable to control the unit.
4. **RS-232:** Connects to a PC or control system with a phoenix connector cable to control the unit.
5. **GND:** Connects the GND port to ground.
6. **AC POWER INPUT:** Connects AC power with an AC power cable.

Remote Control

- **POWER:** Power on or set the unit to standby status.
- **INPUT 0~9:** Select one input signal source.
  NOTE: You must select two numbers when you select input signal source. For example, if you want to select input signal source 1, you need to press ‘0’ button and then ‘1’ button.
- **PTP BUTTON:** Press the PTP button and then select one output source in the 0~9 Output area. It will be a one-to-one output. For example, when you press the PTP button and then select the second output source. The second output port outputs signal from the second input source.
- **OUTPUT 0~9:** Select one output signal source.
  NOTE: You must select two numbers when you select one output signal source. For example, if you want to select the first output signal source, you need to press ‘0’ button and then ‘1’ button.
- **ALL BUTTON:** Press this button to select all output signal source simultaneously. Press the PTP button and then press the ‘All’ button, all input and output signal sources will be output one-to-one. Press the first input source and then press ‘All’ button, the first input source will output to all output ports.

OPERATION INSTRUCTIONS:

- Select the input buttons and then select the output buttons to display the corresponding input signal source.
- When you use the remote control to select the input and output source, select one input source to many outputs, select the ‘OUTPUT’ port on the front panel OLED screen. Then press the ‘OK’ button to confirm. For example, select the first input source and then press the ‘OK’ button. You can select 01, 02,13,14, etc. output from the ‘OUTPUT’ port on the front panel OLED screen and then press the ‘OK’ button. At this time, the first

input source will output to 01, 02, 13,14, etc. port.

IR CODES
CUSTOM CODE: 08F7

POWER:	08F7	4DB2	INPUT 9:	08F7	55AA	OUTPUT 6:	08F7	44BB
INPUT 1:	08F7	08F7	INPUT 0:	08F7	57A8	OUTPUT 7:	08F7	50AF
INPUT 2:	08F7	48B7	INPUT PTP:	08F7	17E8	OUTPUT 8:	08F7	0EF1
INPUT 3:	08F7	4BB4	OUTPUT ALL:	08F7	53AC	OUTPUT 9:	08F7	13EC
INPUT 4:	08F7	43BC	OUTPUT 1:	08F7	40BF	OUTPUT 0:	08F7	12ED
INPUT 5:	08F7	0CF3	OUTPUT 2:	08F7	10EF			
INPUT 6:	08F7	19E6	OUTPUT 3:	08F7	11EE			
INPUT 7:	08F7	0FF0	OUTPUT 4:	08F7	52AD			
INPUT 8:	08F7	03FC	OUTPUT 5:	08F7	4FB0			

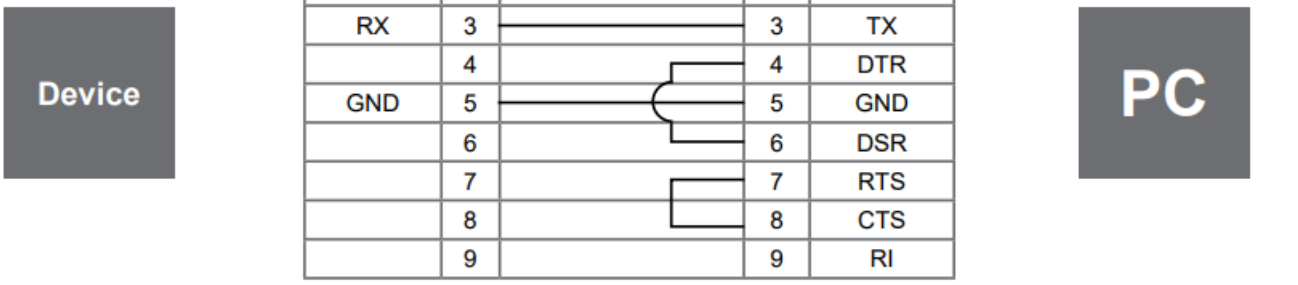
ASCII CommandS

Serial port protocol

- **BAUD RATE:** 115200
- **IP PROTOCOL:**
  - **TCP/IP PORT:** 8000
  - **TELNET PORT:** 23
- **DATA BITS:** 8
- **STOP BITS:** 1
- **CHECK BIT:** 0

RS-232 CONFIGURATION

RS-232 cable is a straight thru cable and not null-modem



POWER				
COMMAND CODE	**DESCRIPTION**	**EXAMPLE**	**FEEDBACK**	**DEFAULT SETTING**
s power on!	POWER ON THE UNIT	s power on! #power 0	POWER ON POWER 0	POWER IS ON
s power off!	POWER OFF THE UNIT	s power off!	POWER OFF	
r power!	GET CURRENT POWER STATE	r power!	POWER ON	
s rboot!	REBOOT THE UNIT	s rboot!		
SYSTEM SETUP				
COMMAND CODE	**DESCRIPTION**	**EXAMPLE**	**FEEDBACK**	**DEFAULT SETTING**
r login!	QUERY PASSWORDS FOR BOTH ACCOUNTS	r login!		
s beep on!	ENABLE BUZZER FUNCTION	s beep on!	BEEP ON	BEEP ON
s beep off!	DISABLE BUZZER FUNCTION	s beep off!	BEEP OFF	
r beep!	GET THE STATUS OF THE BUZZER	r beep!	BEEP ON	
s factory reset!	RESTORE TO FACTORY SETTINGS	s factory reset!	FACTORY RESET	
r version!	QUERY SOFTWARE VERSION	r version!	V1.16	
r status!	QUERY THE STATE OF THE UNIT	r status!	“POWER ON V1.16 ANI-16-4K60 BEEP ON/OFF LOCK ON/OFF IP MODE MAC 00-00-00-00- 00-00 PORT 8000”	

s save x!	SAVE SWITCH ROUTING SCENARIO TO GROUP X, X=1~10	s save 1!	SAVE TO GROUP 1	
s recall x!	RECALL SAVED GROUP X SCENARIO, X=1~10	s recall 1!	RECALL FROM GROUP 1	

s clear x!	CLEAR STORED GROUP X SCENARIO, X=1~10	s clear 1!	CLEAR GROUP 1	
ROUTING SETUP				
COMMAND CODE	**DESCRIPTION**	**EXAMPLE**	**FEEDBACK**	**DEFAULT SETTING**
s x av y!	SET INPUT X TO OUTPUT Y, X=1~16, Y=16	s 1 av 2!	AV 1 -> 2	
s x all!	SWITCH INPUT X TO ALL OUTPUTS, X=1~16	s 1 all!	1 TO ALL	1 TO ALL
s ptp!	SWITCH INPUT 1 TO OUTPUT 1, INPUT 2 TO OUTPUT 2 …	s ptp!	PTP	
s all off!	CLOSE ALL OUTPUTS	s all off!	ALL OUT OFF	
s x off!	CLOSE OUTPUT X , X=1~16	s 1 off!	OUT 1 OFF	
s all on!	OPEN ALL OUTPUTS	s all on!	ALL OUT ON	
s x on!	OPEN OUTPUT X , X=1~16	s 1 on!	OUT 1 ON	
r out y!	GET OUTPUT PORT ROUTE TO WHICH INPUT PORT, Y=1~16	r out 2!	AV 1 ->2	
r all out!	GET ALL OUTPUT PORTS ROUTING STATUS	r all out!	“AV X -> 1, AV X -> 2… AV X -> 1, AV X -> 16”	
r link in x!	GET INPUT PORT HDMI STATUS, X=1~16	r link in 1!	HDMI IN1: CONNECT	
r link in all!	GET ALL INPUT PORTS HDMI STATUS	r link in all!	“HDMI IN1: CONNECT HDMI IN2: CONNECT … HDMI IN15: CONNECT HDMI IN16: CONNECT”	
r link out y!	GET OUTPUT PORT HDMI STATUS, Y=1~16	r link out 1!	HDMI OUT1: CONNECT	

r link out all!	GET ALL OUTPUT PORTS HDMI STATUS	r link out all!	“HDMI OUT1: CONNECT HDMI OUT2: CONNECT … HDMI OUT15: CONNECT HDMI OUT16:CONNECT”	
EDID SETUP				
COMMAND CODE	**DESCRIPTION**	**EXAMPLE**	**FEEDBACK**	**DEFAULT SETTING**
s edid x c y!	COPY OUTPUT Y EDID TO INPUT X PORT, X=1~16,Y=1~16	s edid 1 c 2!	COPY EDID FROM OUTPUT 2 TO INPUT 1	
s edid x d y!	SET INPUT X EDID TO INTERNAL EDID Y, X=1~16, Y=1~15	s edid 1 d 15!	USE DEFAULT EDID 15 TO INPUT 1	
s edid all c y!	COPY OUTPUT Y EDID TO ALL INPUT PORTS, Y=1~16	s edid all c 1!	COPY EDID FROM OUTPUT1 TO ALL INPUTS	
s edid all d y!	SET ALL INPUT PORTS EDID TO INTERNAL EDID Y, X=1~16, Y=1~15	s edid all d 15!	USE DEFAULT EDID 15 TO ALL INPUTS	
s edid default!	“SET DEFAULT EDID TO ALL INPUT PORTS (DEFAULT EDID IS 1080P, STEREO AUDIO 2.0)”	s edid default!	EDID DEFAULT	
r display edid x!	GET EDID DATA OF TV BE CONNECTED TO HDMI OUTPUT PORT, X=1~16	r display edid 1!	EDID: 00 FF FF FF FF FF FF 00 …… ……	

r edid x!	GET INPUT PORT EDID STATUS, X=1~16	r edid 1!	IN1: 4K2K60, STEREO AUDIO 2.0	

r all edid!	GET ALL INPUT PORTS EDID STATUS	r all edid!	“IN1: 4K2K60, STEREO AUDIO 2.0 IN2: 4K2K60, STEREO AUDIO 2.0 … IN15: 4K2K60, STEREO AUDIO 2.0 IN16: 4K2K60, STEREO AUDIO 2.0”	“IN1: 1080P, STEREO AUDIO 2.0 IN2: 1080P, STEREO AUDIO 2.0 … IN15: 1080P, STEREO AUDIO 2.0 IN16: 1080P, STEREO AUDIO 2.0”
HDCP SETUP				
COMMAND CODE	**DESCRIPTION**	**EXAMPLE**	**FEEDBACK**	**DEFAULT SETTING**
s all hdcp on!	ENABLE ALL OUTPUT PORTS HDCP	s all hdcp on!	ALL OUT HDCP ON	
s all hdcp off!	DISABLE ALL OUTPUT PORTS HDCP	s all hdcp off!	ALL OUT HDCP OFF	
NETWORK SETTINGS				
COMMAND CODE	**DESCRIPTION**	**EXAMPLE**	**FEEDBACK**	**DEFAULT SETTING**
s dhcp off!	SET NETWORK MODULE TO STATIC IP	s dhcp off!	IP MODE STATIC	
s dhcp on!	SET NETWORK MODULE TO DHCP	s dhcp on!	IP MODE DHCP	IP MODE DHCP
r dhcp!	GET DHCP STATUS OF THE NETWORK MODULE	r dhcp!	IP MODE DHCP	
s ip addr xxx.xxx. xxx.xxx!	SET THE IP ADDRESS	s ip addr 192.168.1.100!	192.168.1.100	
r ip addr!	GET THE IP ADDRESS	r ip addr!	192.168.1.100	
s subnet xxx.xxx. xxx.xxx!	SET THE SUBNET MASK	s subnet 255.255.255.0!	255.255.255.0	
r subnet!	GET THE SUBNET MASK	r subnet!	255.255.255.0	
s gateway xxx. xxx.xxx.xxx!	SET THE GATEWAY	s gateway 192.168.1.1!	192.168.1.1	
r gateway!	GET THE GATEWAY	r gateway!	192.168.1.1	

s port x!	SET NETWORK PORT NUMBER	s port 8000!	8000	8000
r port!	GET NETWORK PORT NUMBER	r port!	8000	
r mac addr!	GET THE MAC ADDRESS	r mac addr!	E8-6A-64-42-BA-5D	

Web GUI

Web GUI

The ANI-16-4K60 can be controlled via the built-in web-GUI or external software running on a PC. You must know the current Matrix IP address to use the Web-GUI. You can use any 3rd party IP scanning software or use our PC Software to discover the IP address. The default network setting is DHCP. The ANI-16-4K60 supports Static IP settings and can easily be configured through the Web-GUI or PC software. See “PC Software” further in this document.

1. **STEP 1:** Input the IP address into the PC brower to enter Web GUI page.

2. When you enter the IP address of the ANI-16-4K60 into a browser, you will be greeted with the following authentication page. There are two levels of Web-GUI login. Admin gives permission to all settings, while User is only allowed to change cross points. Select either “Admin” or “User” (Figure 2). The default password for Admin is “admin” and the default password for User is “user”. You will enter the Web-GUI page after successful authentication.

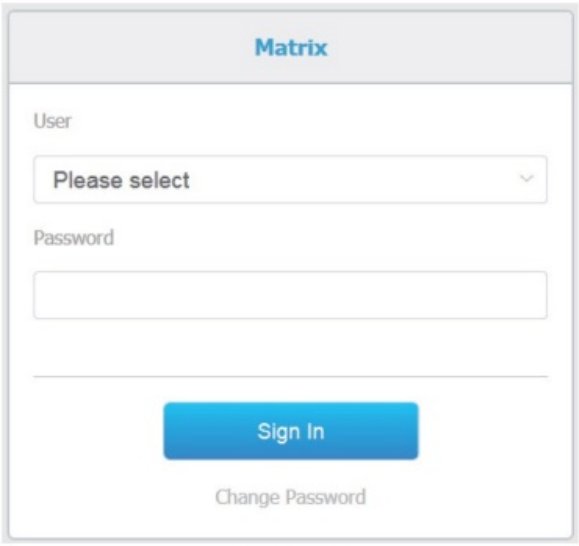


FIGURE 1

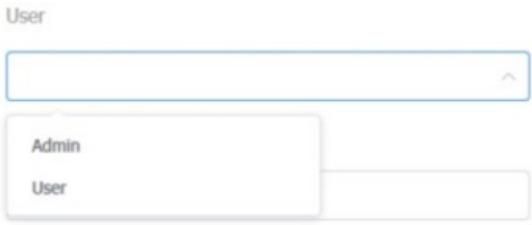


FIGURE 2

3. You can set a new password. To change an account password, first select Admin or User followed by clicking on the “Change Password” button, you will enter the following page to change the password (Figure 3).

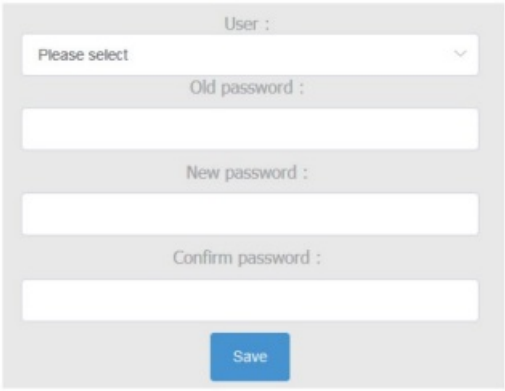
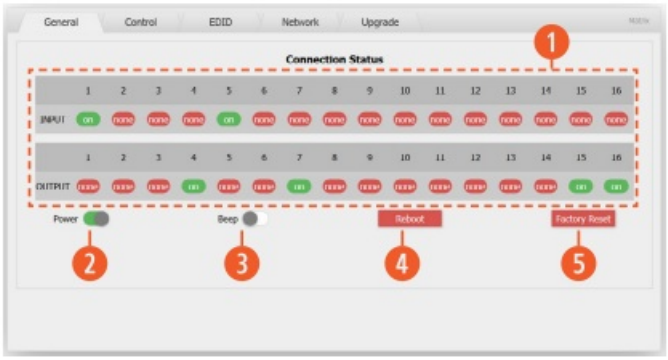


FIGURE 3

GENERAL PAGE

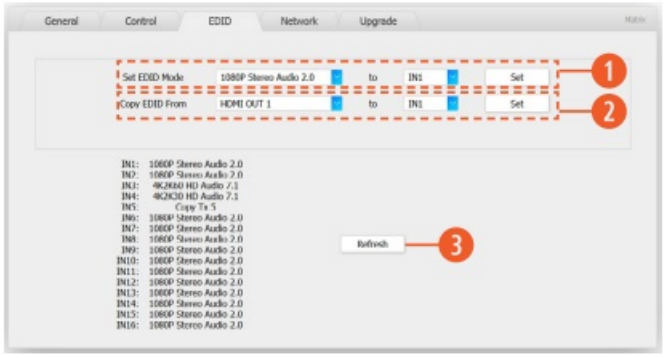


1. Display current input and output status.
2. Power switch. The Matrix will work when you open this switch. Otherwise, the Matrix will be in standby.
3. Beep switch. Open this switch, pressing the Matrix on-panel button will now make a sound. Close this switch to mute.
4. Clicking this button will reboot the device.
5. Clicking this button will factory reset.

CONTROL PAGE

CONTROL: Select the input and output source.

EDID PAGE



1. Select EDID mode for the input source, then click “Set” button.
2. Copy EDID from the output display to the input source, then click “Set” button.
3. Refresh currently the input source EDID status.

The following is the EDID schema table.

EDID Description		EDID Description		EDID Description
1080p, Stereo Audio 2.0		1080i, HD Audio 7.1		4K2K30, Dolby/DTS 5.1
1080p, Dolby/DTS 5.1		3D, Stereo Audio 2.0		4K2K30, HD Audio 7.1
1080p, HD Audio 7.1		3D, Dolby/DTS 5.1		4K2K60, Stereo Audio 2.0
1080i, Stereo Audio 2.0		3D, Dolby/DTS 5.1		4K2K60, Dolby/DTS 5.1
1080i, Dolby/DTS 5.1		4K2K30, Stereo Audio 2.0		4K2K60, HD Audio 7.1

NETWORK PAGE

1. **NETWORK CONFIGURATION:**
   - **IN DHCP OPEN STATUS:**

     HDCP Switch: Obtain the network configuration information, including the IP address, Subnet, Gateway and MAC. Then click the “Set” button to save DHCP status.
   - **IN DHCP CLOSED STATUS:**

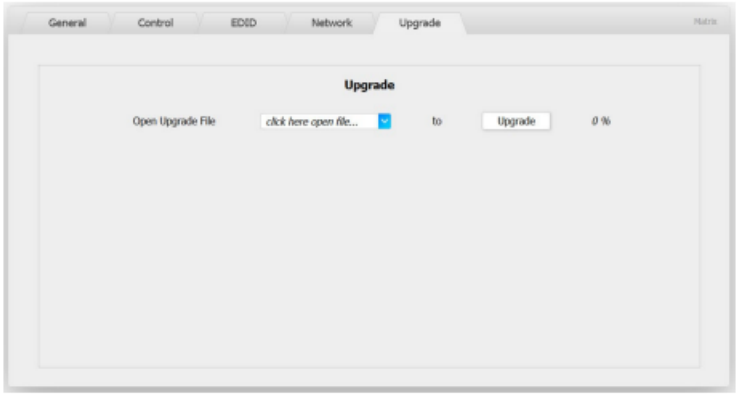
     HDCP Switch: If the DHCP switch has been closed, the user can set the IP, Subnet, Gateway and Mac address. Click the “Set” button to save current status information.

     NOTE: If user has set a new IP address and clicked the “Set” button. The is IP address changed.

Net Status Button: Click this button to refresh the current network configuration information to display in the Status Log.

2. **STATUS LOG:** Display the Net configuration information.
3. **PORT BUTTON:** Set the value of the LAN port.

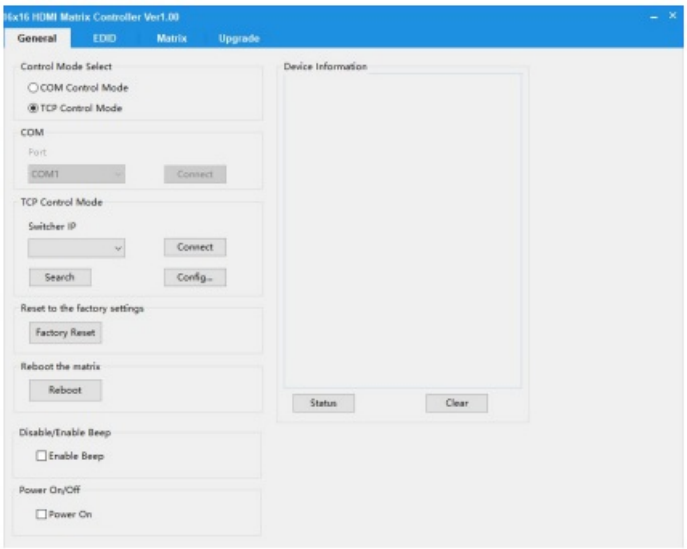
UPGRADE PAGE

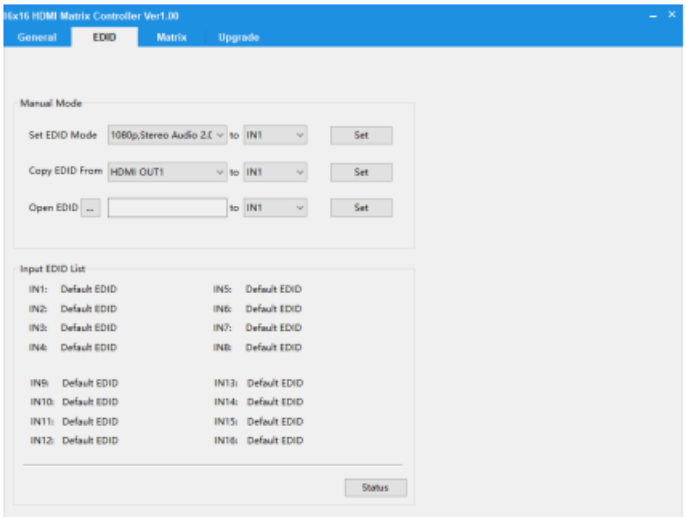


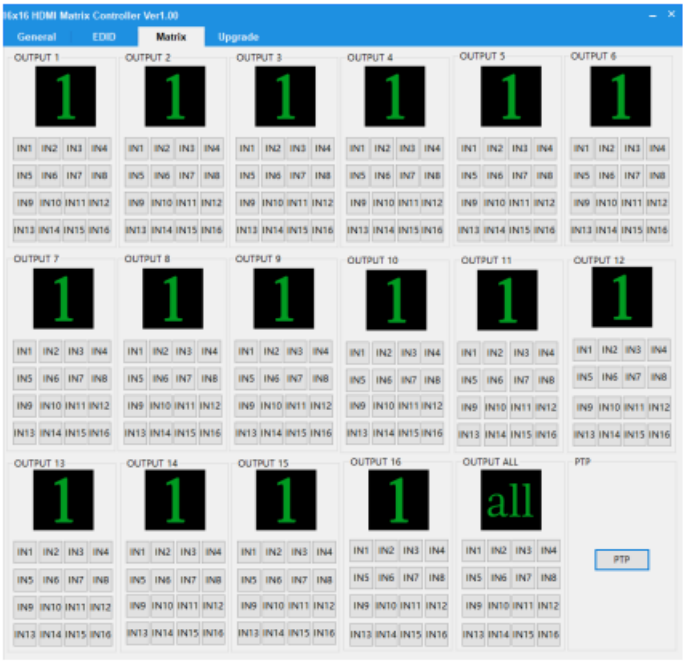
- **UPGRADE:** Select upgrade file. The filet type will have extension name '.bin'. Click 'Upgrade' button. The progress counter will go from 0% – 100%, and the ANI-16-4K60 will reboot.

PC SOFTWARE (OPTIONAL)

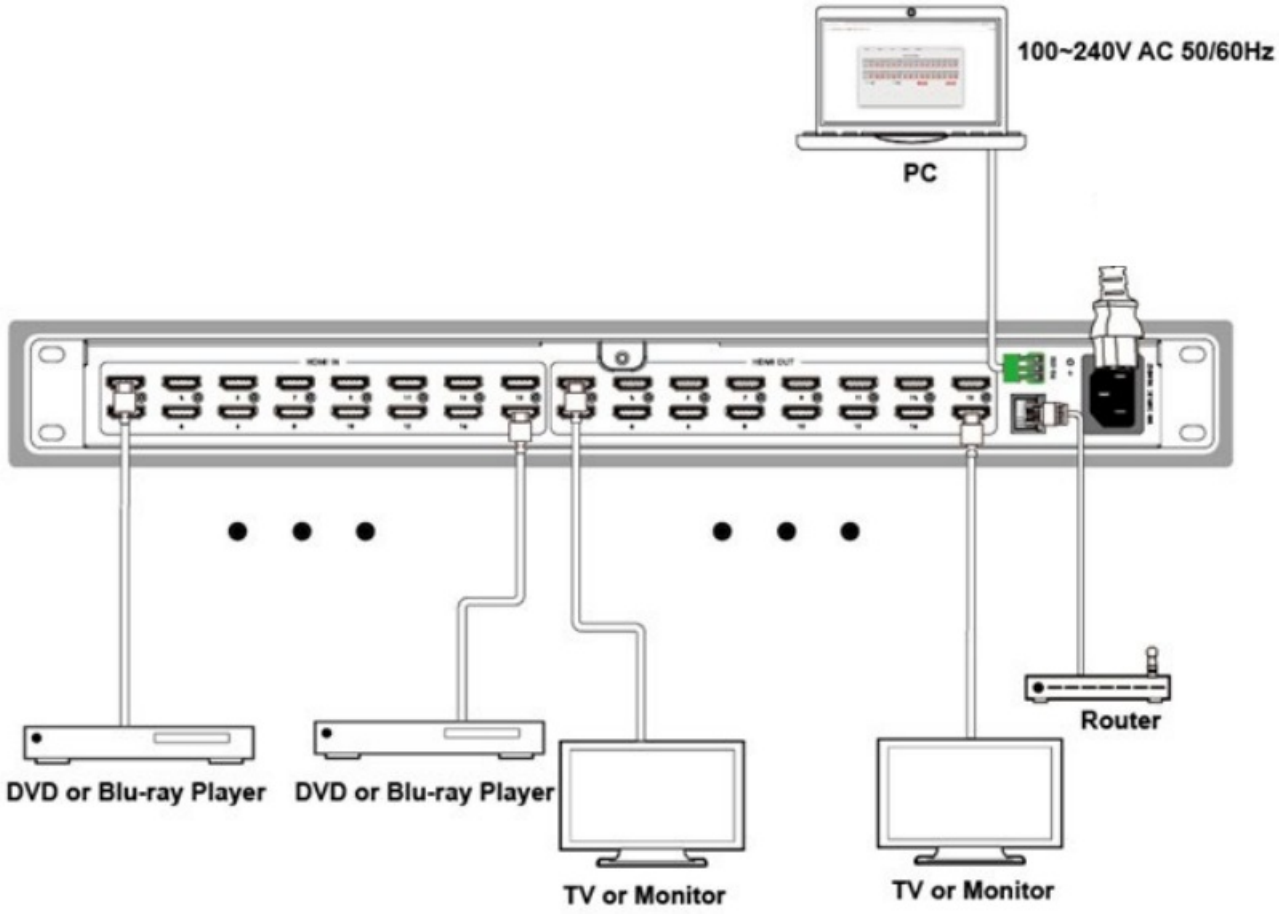
The ANI-16-4K60 supports control via the built-in web-GUI or external software running on a PC. You can also use the software to determine the IP address of the ANI-16-4K60. The software can be downloaded from the product page off our website "ANI-16-4K60 PC Software.exe" The software is a standalone .EXE file requiring no installation. Download the file to your hard drive and double-click the file name to start the program.





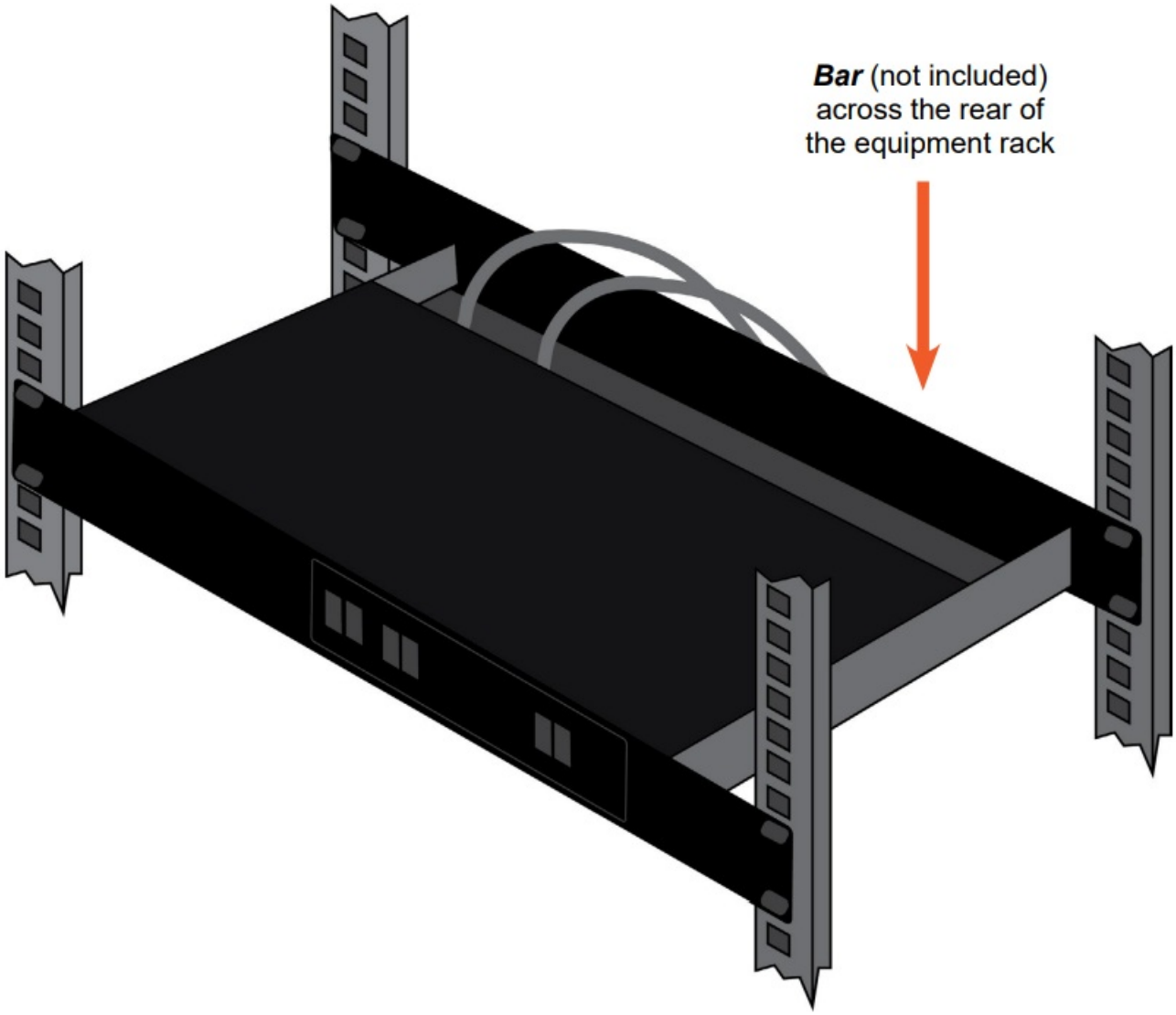


Application Example



CABLE DISCLAIMER

It is advised to secure all HDMI cables as to remove stress when connecting to the matrix. Secure HDMI cables either using a cable tray (not included) or a bar (not included) across the rear of the equipment rack. Cables under stress can damage the I/O ports and WILL NOT be covered under warranty.



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Documents / Resources

	KVMSwitchTech ANI-16-4K60 16x16 HDMI Matrix Switcher with Smart EDID Management [pdf] Instruction Manual ANI-16-4K60 16x16 HDMI Matrix Switcher with Smart EDID Management, ANI-16-4K60 16x16, HDMI Matrix Switcher with Smart EDID Management, Smart EDID Management, EDID Management, Management

References

- a-neuvideo.com

Manuals+.