



# VigilLink VLMX-1616E Matrix with Video Wall User Manual

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## VigilLink VLMX-1616E Matrix with Video Wall



### Thank you for purchasing this product

Please read these instructions carefully for optimum performance and safety before connecting, operating, or adjusting this product. Please keep this manual for future reference.

**A surge protection device is recommended.**

This product contains sensitive electrical components that electrical spikes may damage, surges, electric shocks, lightning strikes, etc. The use of surge protection systems is highly recommended to protect and extend the life of your equipment.

**Introduction**

The 18Gbps 16×16 HDMI Matrix supports the transmission of video (resolution up to 4K2K@ 60Hz YUV 4:4:4) and multi-channel high-resolution digital audio from 16 HDMI sources to 16 HDMI displays. Audio de-embedded to coaxial audio is supported from 16 HDMI output ports. While the HDMI output ARC function is enabled, the ARC audio from HDMI display devices will be extracted to coaxial audio output. Each HDMI output of this 16×16 HDMI Matrix independently supports 4K2K to 1080P downscale. Control via front panel buttons, IR remote, RS-232, LAN, and Web GUI.

**Features**

- HDMI 2.0b, HDCP 2.2/1.x, and DVI 1.0 compliant
- Video resolution up to 4K2K@60Hz (YUV 4:4:4) on all HDMI ports
- Support 18Gbps video bandwidth
- HDR, HDR10, HDR10+, Dolby Vision, and HLG are supported.
- Support 4K->1080P Down Scaler for each output port
- HDMI audio pass-through up to 7.1CH HD audio (LPCM, Dolby TrueHD, and DTS-HD Master Audio)
- Audio de-embedded is supported via coax ports
- ARC, CEC, and smart EDID management are supported
- 1U rack mounted design with front panel OLED display
- Control via front panel buttons, IR remote, RS-232, LAN, and Web GUI

**Package Contents**

1. 1 x 18Gbps 16×16 HDMI Matrix
2. 1 x 24V/3.75A Power Adapter
3. 1 x IR Remote
4. 1 x RS-232 serial cable (1.5 meters, male to female head)
5. 2 x Mounting Ear
6. 1 x User Manual

**Specifications**

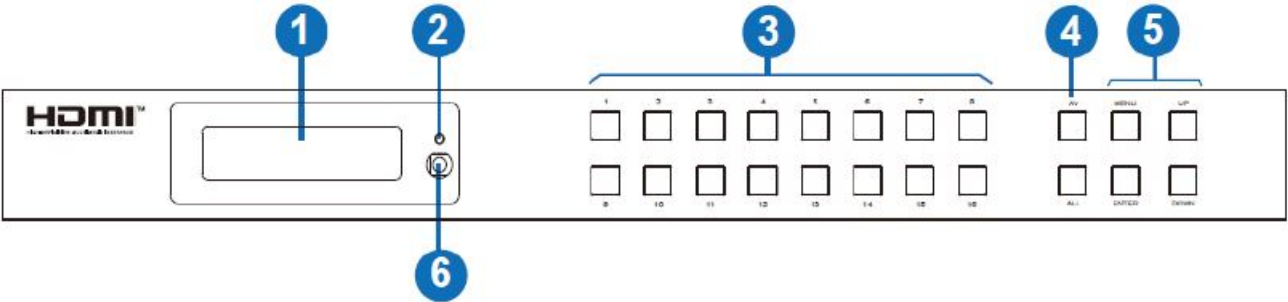
Technical	
HDMI Compliance	HDMI 2.0b
HDCP Compliance	HDCP 2.2/1.x

Video Bandwidth	18Gbps
Video Resolution	Up to 4K2K@60Hz (4:4:4)
Color Space	RGB, YCbCr 4:4:4/4:2:2/4:2:0
Color Depth	8-bit, 10-bit, 12-bit
HDMI Audio Formats (Pass-through)	LPCM 2/5.1/7.1, Dolby Digital, DTS 5.1, Dolby Digital+, Dolby TrueHD, DTS-HD Master Audio, Dolby Atmos, DTS:X
Coax Audio Formats	LPCM 2.0, Dolby Digital / Plus, DTS 5.1
HDR formats	HDR10, HDR10+, Dolby Vision, HLG
ESD Protection	Human-body Model: ±8kV (Air-gap discharge) , ±4kV (Contact discharge)
<b>Connection</b>	
Input Ports	16×HDMI Type A [19-pin female]
Output Ports	16×HDMI Type A [19-pin female] 16×Coax Audio (RCA)
Control Ports	1×TCP/IP [RJ45] 1×RS-232 [D-Sub 9]
<b>Mechanical</b>	
Housing	Metal Enclosure
Color	Black

Dimensions	440mm (W)×200mm (D)×44mm (H)		
Weight	3.1kg		
Power Supply	Input: AC 100 – 240V 50/60Hz, Output: DC 24V/3.75A (US/EU standard, CE/FCC/UL certified)		
Power Consumption	76.8W		
Operating Temperature	-10°C ~ 45°C / 14°F ~ 113°F		
Storage Temperature	-20°C ~ 60°C / -4°F ~ 140°F		
Relative Humidity	20~90% RH (non-condensing)		
Resolution / Cable length	4K60 – Feet / Meters	4K30 – Feet / Meters	1080P60 – Feet / Meters
HDMI IN / OUT	16ft / 5M	32ft / 10M	50ft / 15M
The use of the “Premium High-Speed HDMI” cable is highly recommended.			

**Operation Controls and Functions**

**Front Panel**

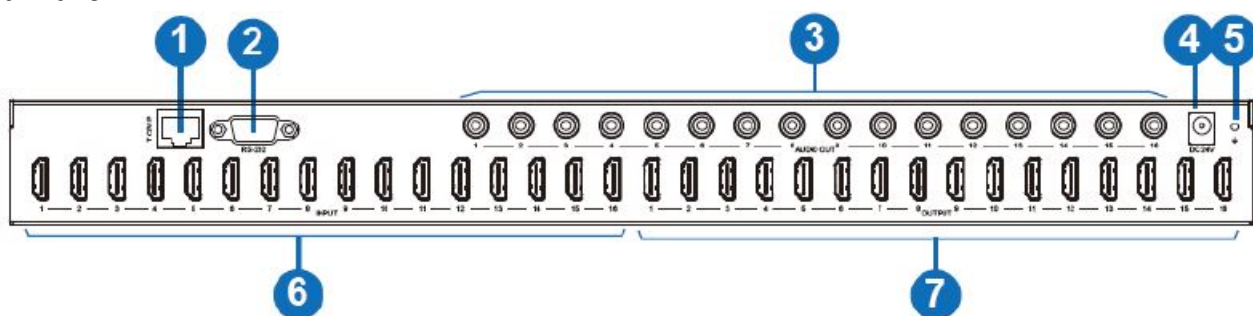


No.	Name	Function Description

1	OLED screen	Display matrix switching status, input/output port, EDID, Baud rate, IP Address.
2	Power LED	The LED will illuminate in green when the product is connected to the power supply and red when the product is on standby.
3	Input / Output buttons	You need to press the input button (1~16) firstly, then press the "AV" button, and finally press the output button (1~16, including and output ports for the output input "ALL") to select the corresponding input and output ports.
4	AV / ALL buttons	<p>t port.</p> <p><b>AV:</b> Used to switch signal source to output.</p> <p>e.g., Pressing "1→AV→3" represents signal source 1 is output to display 3.</p> <p><b>ALL:</b> It represents all the output ports.</p> <p>e.g., Pressing "1→AV→ALL" represents signal source 1 is output to all displays.</p>

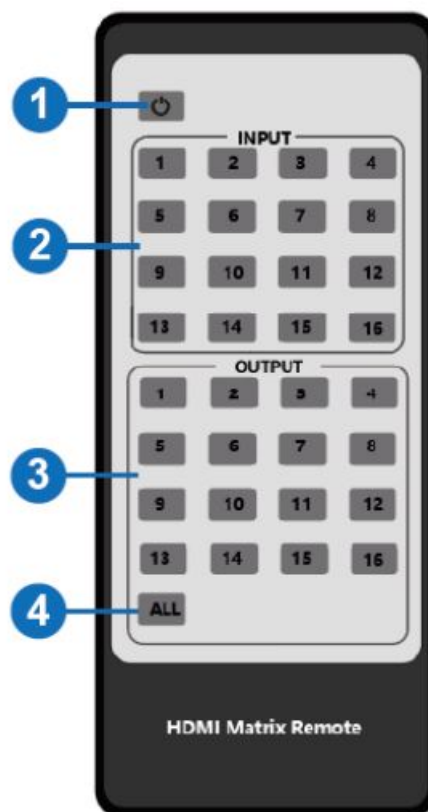
5	MENU / ENTER / UP / DOWN	<p>①<b>EDID check:</b> On the initial OLED display screen, press the “MENU” button to enter the Matrix switching status interface,</p> <p>then press the “UP/DOWN” button to check the switching state of all ports.</p> <p>②<b>EDID setting:</b> On the initial OLED display screen, press “MENU” button to enter the EDID setting interface, press</p> <p>The “UP/DOWN” button selects the required EDID and presses the “ENTER” button. A prompt “copy to input:” will appear. Then press the “UP/DOWN” button to select the input port you need to set and press the “ENTER” button again to confirm.</p> <p>③<b>Baud rate setting:</b> On the initial OLED display screen, press the “MENU” button to enter the Baud rate interface, and</p> <p>press the “UP/DOWN” button to select the required Baud rate, finally press the “ENTER” button to confirm the setting.</p> <p>④<b>IP Address check:</b> On the initial OLED display screen, press the “MENU” button to enter the IP interface, then press</p> <p>“UP/DOWN” button to check the current IP address. Pressing the “MENU” button again will return to the initial OLED display status.</p>
6	IR Window	IR receiver window only receives the IR remote signal from this product.

## Rear Panel



No.	Name	Function Description
1	TCP/IP port	The TCP/IP control port connects to the PC or router with an RJ45 cable.
2	RS-232 port	Connect to a PC or control system by D-Sub 9-pin cable to transmit the RS-232 command.
3	AUDIO OUT (1-16)	Coaxial audio output port, connect to the audio output devices such as an audio amplifier via a coaxial cable.
4	DC 24V	Connect to 24V power adapter.
5	GND	Connect the housing to the ground.
6	INPUT ports (1-16)	HDMI input ports connect to HDMI source devices such as DVDs or set-top boxes with an HDMI cable.
7	OUTPUT ports (1-16)	HDMI output ports connect to HDMI display devices such as TV or monitor with an HDMI cable.

## IR Remote



1. Power on or Standby: Power on the Matrix or set it to standby mode.
2. Input 1/2/3/4/5/6/7/8/9/10/11/12/13/14/15/16:  
Select the input source button.
3. Output 1/2/3/4/5/6/7/8/9/10/11/12/13/14/15/16:  
Select the output source button.
4. **All:** Select all output sources simultaneously.  
For example, when you press the input “1” button and then press the “All” button, at this time, the input “1” source will be output to all display devices.

**Operation instruction:** You need to press the input button first and then the output button. For example,

## Press Input-Y

(Y means input button from 1 to 16)

## Then press Output-X

(X means output button from 1 to 16, including the “All” button)

## EDID Management

This Matrix has 21 factory-defined EDID settings, 2 user-defined EDID modes, and 16 copy EDID modes. You can select defined EDID mode or copy EDID mode to input port through front panel buttons, RS-232 control, or Web GUI.

**On-panel button operation:** On the initial OLED display screen, press the “MENU” button to enter the EDID setting interface, press the “UP/DOWN” button to select the required EDID, and press the “ENTER” button. A prompt “copy to input:” will appear. Then press the “UP/DOWN” button to select the input port you need to set and press the “ENTER” button to confirm this operation.

**RS-232 control operation:** Connect the Matrix to PC with a serial cable, then open a Serial Command tool on PC to send ASCII command “s EDID in x from z!” to set EDID. For details, please refer to “EDID Setting” in the ASCII command list of “9. RS-232 Control Command”.

**Web GUI Operation:** Please check the EDID management on the “Input page” of “8. Web GUI User Guide”.

The screenshot shows the 'Input Setting' page of the '16x16 HDMI Matrix - 18Gbps Advanced' web interface. On the left is a sidebar with navigation links: Status, Video, Input (selected), Output, CEC, Network, and System. The main content area features a table with 16 rows, each representing an input port (HDMI 1 to HDMI 16). Each row has columns for 'Inputs', 'Active' (with a radio button), 'Name', and 'EDID'. A dropdown menu is open for 'Input1', displaying a list of EDID options: 1080P,Stereo Audio 2.0 (selected), 1080P,Dolby/DTS 5.1, 1080P,HD Audio 7.1, 1080i,Stereo Audio 2.0, 1080i,Dolby/DTS 5.1, 1080i,HD Audio 7.1, and 3D,Stereo Audio 2.0. Below the table, there are two sections: 'Load EDID to user memory' with a 'Select EDID File' field and a 'Browse' button, and 'DownLoad EDID to your computer' with a 'Select EDID File' dropdown (showing 'HDMI.IN1') and a 'Download' button. The top right of the interface includes 'Admin', 'Log out', and 'Power on' links.

Inputs	Active	Name	EDID
HDMI 1	<input checked="" type="radio"/>	Input1	1080P,Stereo Audio 2.0
HDMI 2	<input checked="" type="radio"/>	Input2	1080P,Stereo Audio 2.0
HDMI 3	<input checked="" type="radio"/>	Input3	1080P,Stereo Audio 2.0
HDMI 4	<input checked="" type="radio"/>	Input4	1080P,Stereo Audio 2.0
HDMI 5	<input checked="" type="radio"/>	Input5	1080P,Stereo Audio 2.0
HDMI 6	<input checked="" type="radio"/>	Input6	1080P,Stereo Audio 2.0
HDMI 7	<input checked="" type="radio"/>	Input7	1080P,Stereo Audio 2.0
HDMI 8	<input checked="" type="radio"/>	Input8	1080P,Stereo Audio 2.0
HDMI 9	<input checked="" type="radio"/>	Input9	1080P,Stereo Audio 2.0
HDMI 10	<input checked="" type="radio"/>	Input10	1080P,Stereo Audio 2.0
HDMI 11	<input checked="" type="radio"/>	Input11	1080P,Stereo Audio 2.0
HDMI 12	<input checked="" type="radio"/>	Input12	1080P,Stereo Audio 2.0
HDMI 13	<input checked="" type="radio"/>	Input13	1080P,Stereo Audio 2.0
HDMI 14	<input checked="" type="radio"/>	Input14	1080P,Stereo Audio 2.0
HDMI 15	<input checked="" type="radio"/>	Input15	1080P,Stereo Audio 2.0
HDMI 16	<input checked="" type="radio"/>	Input16	1080P,Stereo Audio 2.0

The defined EDID setting list of the product is shown as below:



EDID Mode	EDID Description
1	1080p, Stereo Audio 2.0
2	1080p, Dolby/DTS 5.1
3	1080p, HD Audio 7.1
4	1080i, Stereo Audio 2.0
5	1080i, Dolby/DTS 5.1
6	1080i, HD Audio 7.1
7	3D, Stereo Audio 2.0
8	3D, Dolby/DTS 5.1
9	3D, HD Audio 7.1
10	4K2K30_444, Stereo Audio 2.0
11	4K2K30_444, Dolby/DTS 5.1
12	4K2K30_444, HD Audio 7.1
13	4K2K60_420, Stereo Audio 2.0
14	4K2K60_420, Dolby/DTS 5.1
15	4K2K60_420, HD Audio 7.1
16	4K2K60_444, Stereo Audio 2.0
17	4K2K60_444, Dolby/DTS 5.1

18	4K2K60_444, HD Audio 7.1
19	4K2K60_444, Stereo Audio 2.0 HDR
20	4K2K60_444, Dolby/DTS 5.1 HDR
21	4K2K60_444, HD Audio 7.1HDR
22	USER1
23	USER2
24	Copy from HDMI output 1
25	Copy from HDMI output 2
26	Copy from HDMI output 3
27	Copy from HDMI output 4
28	Copy from HDMI output 5
29	Copy from HDMI output 6
30	Copy from HDMI output 7
31	Copy from HDMI output 8
32	Copy from HDMI output 9
33	Copy from HDMI output 10
34	Copy from HDMI output 11

35	Copy from HDMI output 12
36	Copy from HDMI output 13
37	Copy from HDMI output 14
38	Copy from HDMI output 15
39	Copy from HDMI output 16

## Web GUI User Guide

Web GUI can control the Matrix. The operation method is shown below:

**Step 1:** Get the current IP Address.

The default IP address is 192.168.1.100. You can get the current Matrix IP address in two ways:

**The first is to get** the IP address via panel buttons. On the initial OLED display, press the “MENU” button to enter the IP interface, then press the “UP/DOWN” button to check the current IP address.

**The second way:** You can get the IP address via RS-232 control. Send the command “r ipconfig!” Through an ASCII Command tool, then you’ll get the feedback information as shown below:

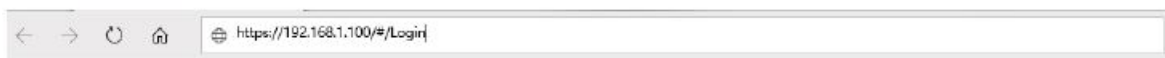
```
IP Mode: DHCP
IP:192.168.62.100
Subnet Mask:255.255.255.0
Gateway:192.168.62.1
TCP/IP port=8000
Telnet port=23
Mac address:6C:DF:FB:03:FB:6F
```

IP:192.168.62.100 in the above figure is the IP Address of the Matrix (the IP address is variable, depending on what the specific machine returns).

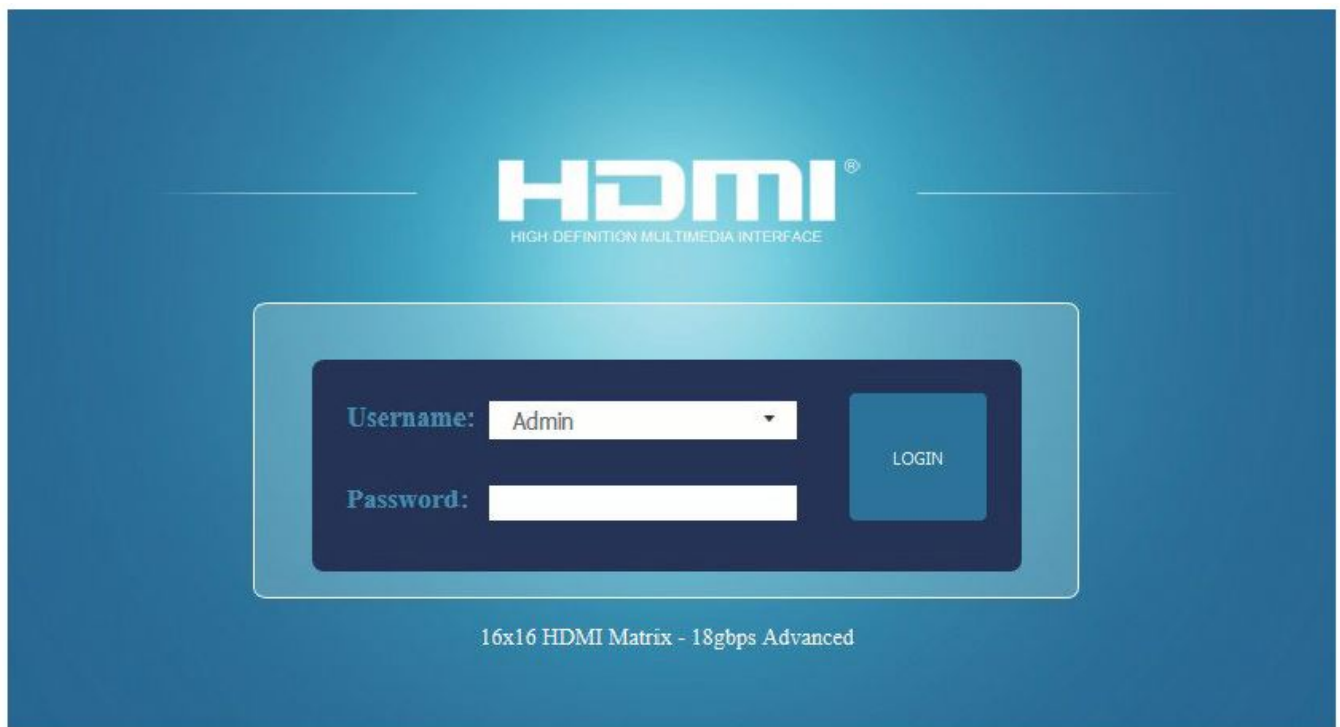
For the details of ASCII control, please refer to “9. RS-232 Control Command”.

**Step 2:** Connect the TCP/IP port of the Matrix to a PC with a UTP cable, and set the PC’s IP address to be in the same network segment as the Matrix.

**Step 3:** Input the IP address of the Matrix into your browser on the PC to enter the Web GUI page.



After entering the Web GUI page, there will be a Login page, as shown below:



Select the Username from the list and enter the password. The default passwords are:

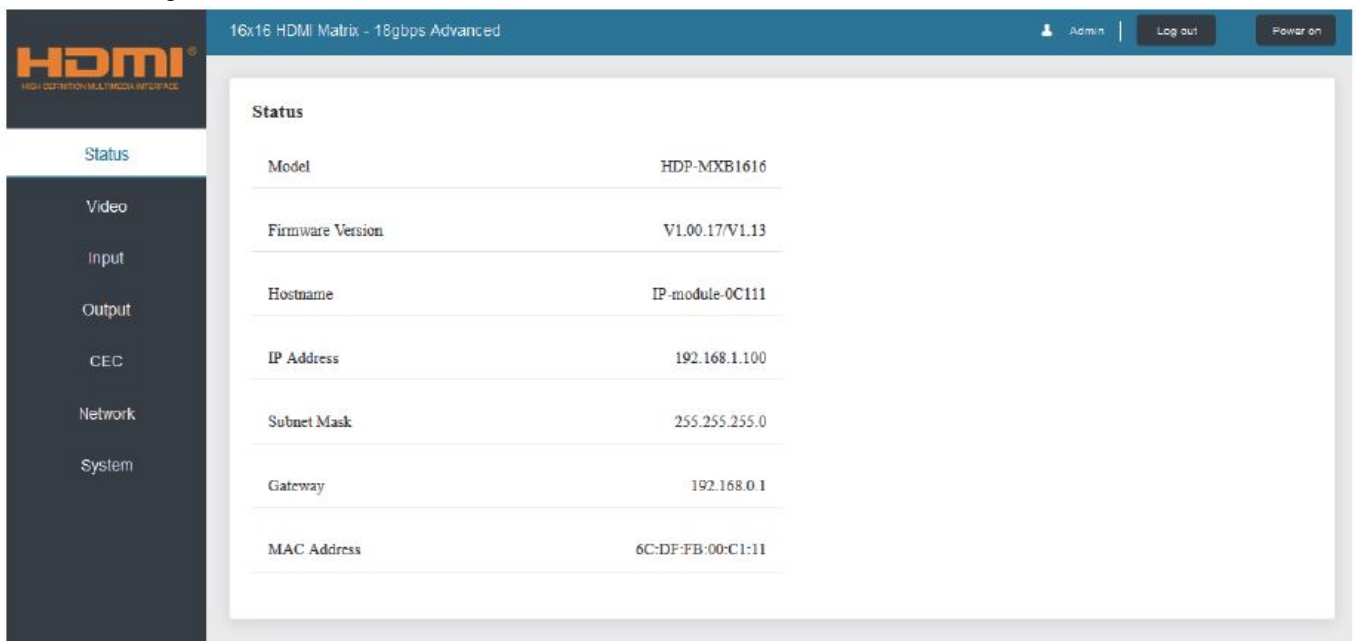
Username **User Admin**

Password **user admin**

After entering the password, click the “Log in” button, and the following Status page will appear.

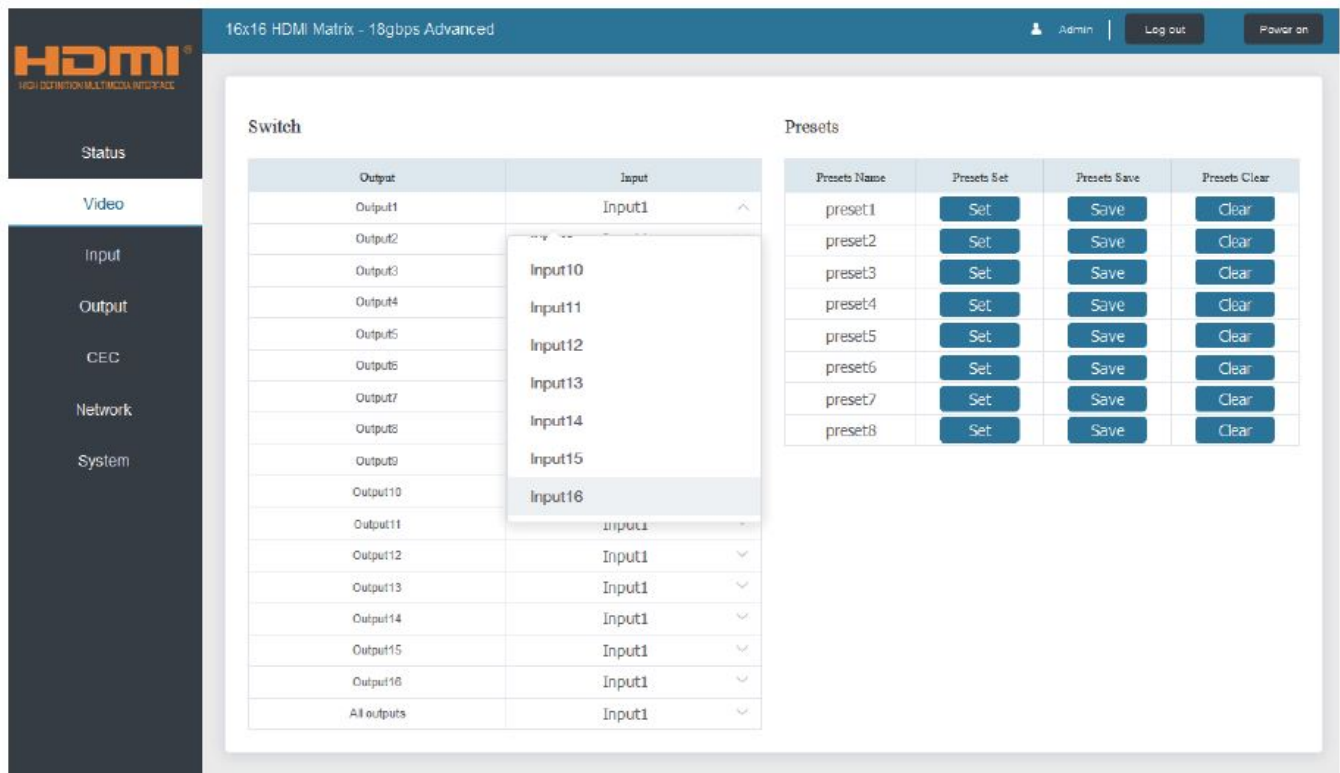
### Status Page\

The Status page provides basic information about the Model, the installed firmware version, and the device's network settings.

The image shows the Status page of the HDMI 16x16 Matrix - 18gbps Advanced. The page has a dark blue header with the HDMI logo on the left, the title '16x16 HDMI Matrix - 18gbps Advanced' in the center, and user information 'Admin' and buttons 'Log out' and 'Power on' on the right. A left sidebar contains a menu with 'Status' (highlighted), 'Video', 'Input', 'Output', 'CEC', 'Network', and 'System'. The main content area is titled 'Status' and contains a table with the following information:

Model	HDP-MXB1616
Firmware Version	V1.00.17/V1.13
Hostname	IP-module-0C111
IP Address	192.168.1.100
Subnet Mask	255.255.255.0
Gateway	192.168.0.1
MAC Address	6C:DF:FB:00:C1:11

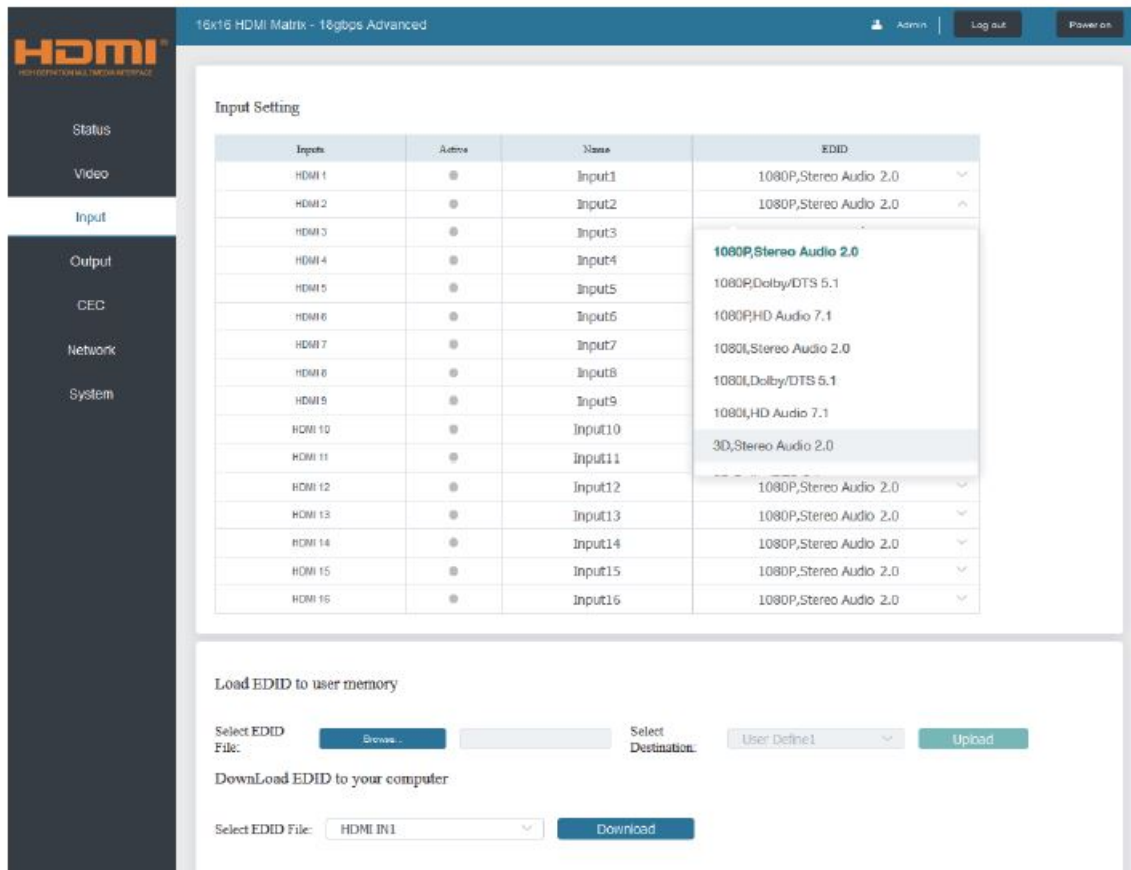
### Video Page



You can do the following operations on the Video page:

1. **Output:** The current device's OUTPUT port. You can select the signal source for it.
2. **All Output:** All OUTPUT ports for the current device. You can choose the signal source for them.
3. **Input:** You can click the drop-down menu to select the signal source for the corresponding OUTPUT port.
4. **Presets Name:** You can name the current scene with a maximum length of 12 characters (the Chinese name is unsupported).
5. **Presets Set:** You can restore the last saved audio-video matrix switching relationship settings.
6. **Presets Save:** You can save the audio-video matrix switching relationship.
7. **Presets Clear:** You can clear the saved audio-video matrix switching relationship.

## Input Page

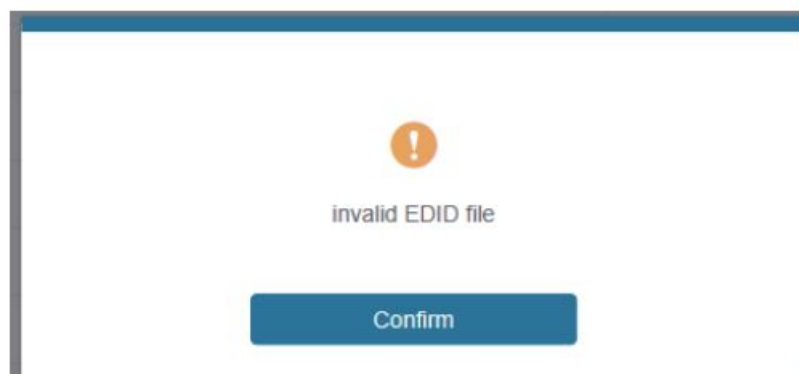


You can do the following operations on the Input page:

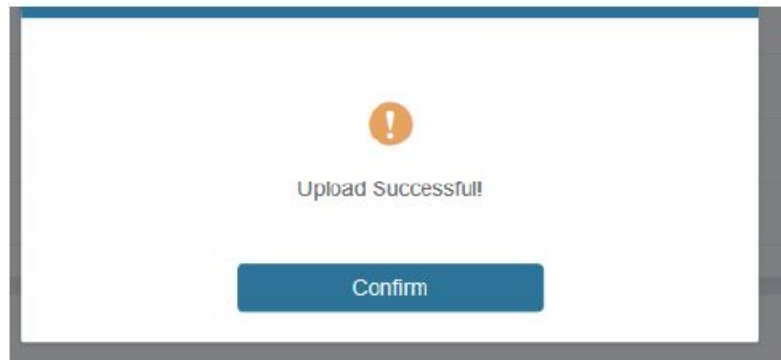
1. **Inputs:** Input channel of the device.
2. **Active:** Indicates whether the channel is connected to a signal source.
3. **Name:** The input channel's name. You can modify it by entering the corresponding name (max length: 12 characters) in the input box (the Chinese name is unsupported).
4. **EDID:** You can set the current channel's EDID. The specific operation is as follows:

#### Set EDID for the User

Click the "Browse" button, then select the bin file. If you choose the wrong EDID file, there will be a prompt, as shown in the following figure:



Make sure to select the correct file; then, you can check the selected file's name. Select "User 1" or "User 2", then click "Upload". After successful setting, it will prompt as follows:



### Download the EDID File of the Corresponding Input Channel

Click the drop-down box of “Select EDID File” to select the corresponding input channel. Then click “Download” to download the corresponding EDID file.

### Output Page

16x16 HDMI Matrix - 18gbps Advanced

Admin | Log out | Power on

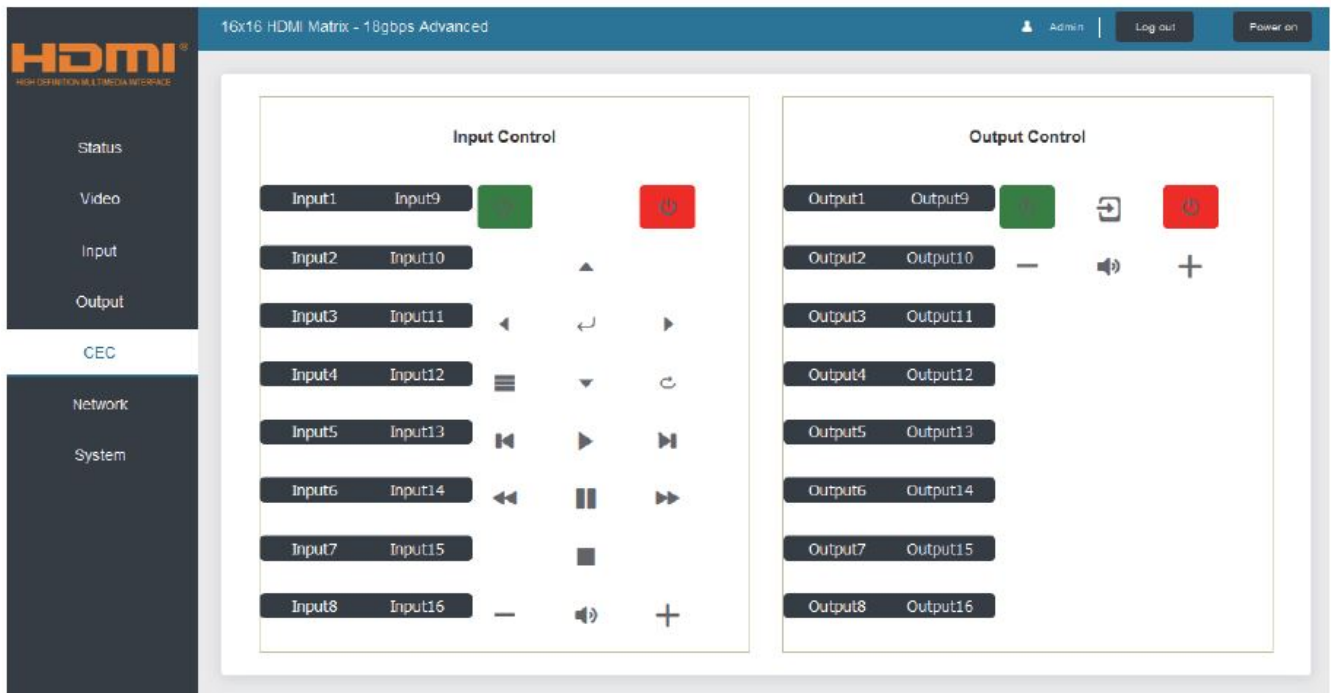
**Output Setting**

Outputs	Cable	Name	Scaler Mode	ARC	Stream
Output 1	●	Output1	Bypass	OFF ON	OFF ON
Output 2	●	Output2	Bypass	OFF ON	OFF ON
Output 3	●	Output3	Bypass	OFF ON	OFF ON
Output 4	●	Output4	Bypass	OFF ON	OFF ON
Output 5	●	Output5	Bypass	OFF ON	OFF ON
Output 6	●	Output6	Bypass	OFF ON	OFF ON
Output 7	●	Output7	Bypass	OFF ON	OFF ON
Output 8	●	Output8	Bypass	OFF ON	OFF ON
Output 9	●	Output9	Bypass	OFF ON	OFF ON
Output 10	●	Output10	Bypass	OFF ON	OFF ON
Output 11	●	Output11	Bypass	OFF ON	OFF ON
Output 12	●	Output12	Bypass	OFF ON	OFF ON
Output 13	●	Output13	Bypass	OFF ON	OFF ON
Output 14	●	Output14	Bypass	OFF ON	OFF ON
Output 15	●	Output15	Bypass	OFF ON	OFF ON
Output 16	●	Output16	Bypass	OFF ON	OFF ON

You can do the following operations on the Output page:

1. Outputs: Output channel of the device.
2. Cable: It indicates the connection status of output ports. When the output port is connected to the display, it shows green; otherwise, it shows gray.
3. Name: The current output channel's name. You can modify it by entering the corresponding name (max length: 12 characters) in the input box (the Chinese name is unsupported).
4. Scaler Mode: Set the current output resolution mode.
5. ARC: Turn on/off the ARC function.
6. Stream: Turn on/off the output stream.

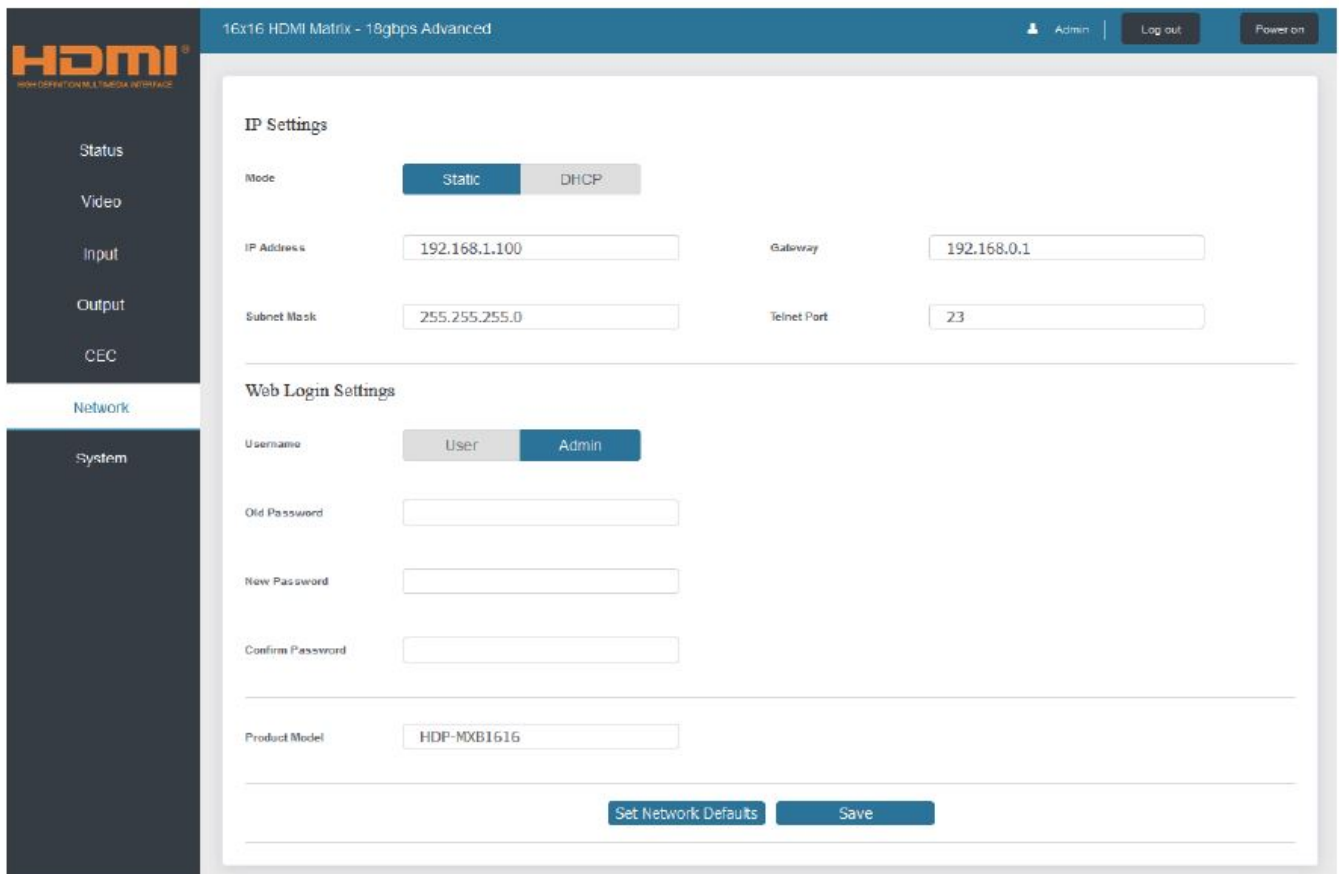
### CEC Page



You can perform CEC management on this page:

1. **Input Control:** You can control the operation of each input source by clicking the icons on the page.
2. **Output Control:** You can control the operation of each display, such as power on/off, volume +/-, and active source switching.

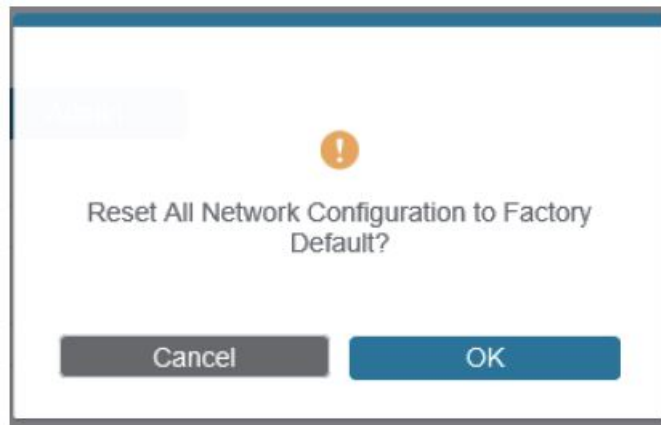
## Network Page



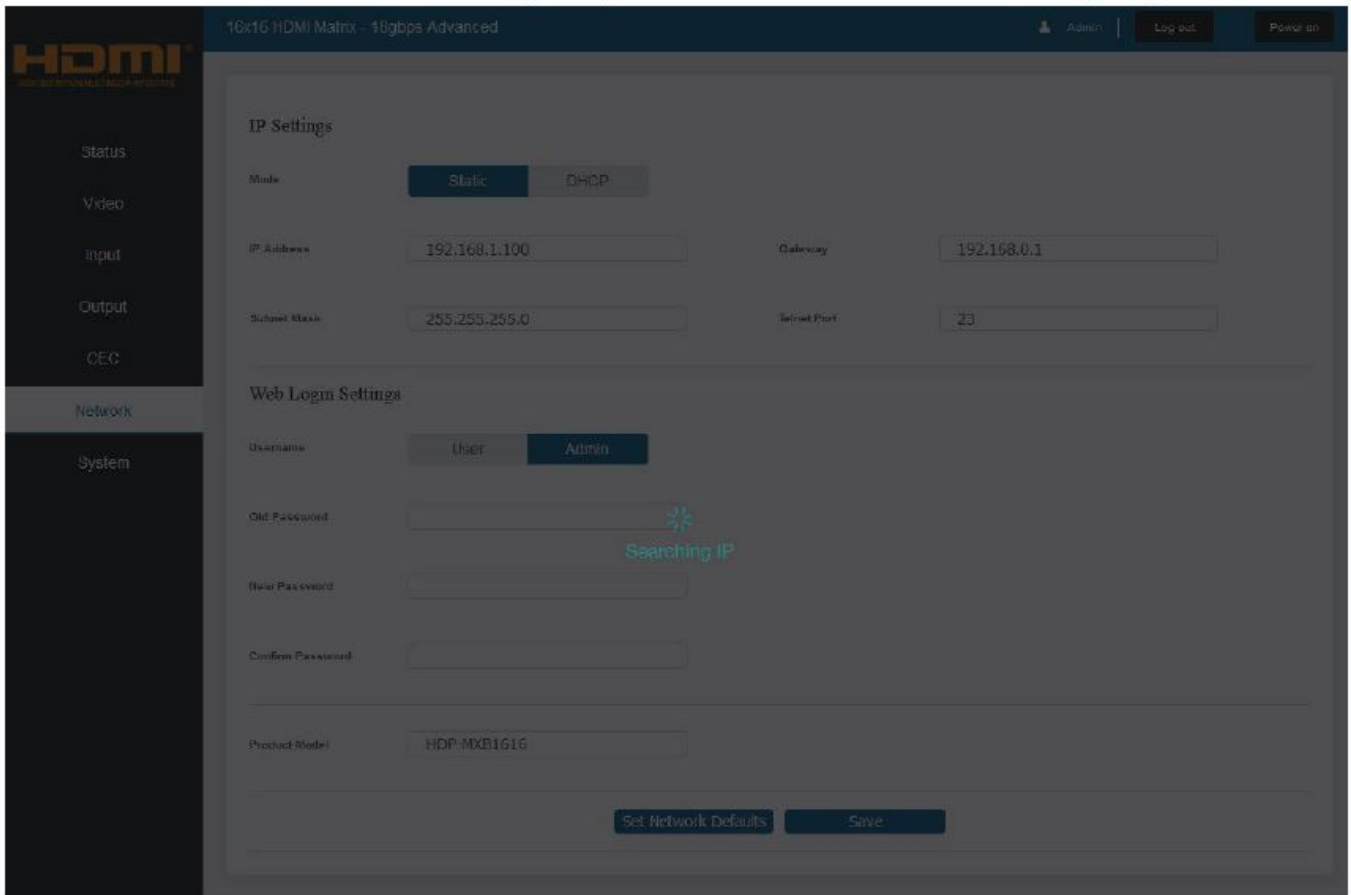
### Set the Default Network

Click "Set Network Defaults," and there will be a prompt, as shown in the following figure:





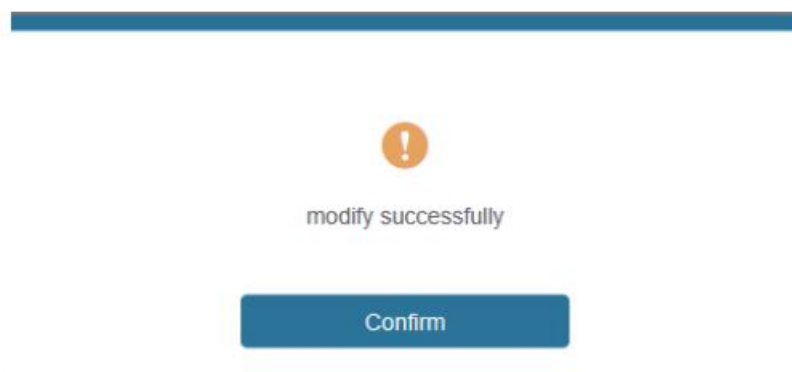
Click “OK” to search the IP Address again, as shown in the following figure:



After searching, it will switch to the login page; the default network setting is completed.

### Modify Username

Click the “User” button, enter the correct Old Password, New Password, and Confirm Password, then click “Save.” After successful modification, there will be a prompt, as shown in the following figure:



**Note:** Input rules for changing passwords:

1. The password can't be empty.
2. New Password can't be the same as the Old Password.
3. New Password and Confirm Password must be the same.

### Modify Network Setting

Modify the Mode/IP Address/Gateway/Subnet Mask/Telnet Port as required, click “Save” to save the settings, then it will come into effect.

After modification, if the Mode is “Static,” it will switch to the corresponding IP Address; if the Mode is “DHCP,” it will automatically search and switch to the IP Address assigned by the router.

#### IP Settings

Mode	<input type="radio"/> Static <input checked="" type="radio"/> DHCP		
IP Address	<input type="text" value="192.168.1.100"/>	Gateway	<input type="text" value="192.168.0.1"/>
Subnet Mask	<input type="text" value="255.255.255.0"/>	Telnet Port	<input type="text" value="23"/>

### System Page

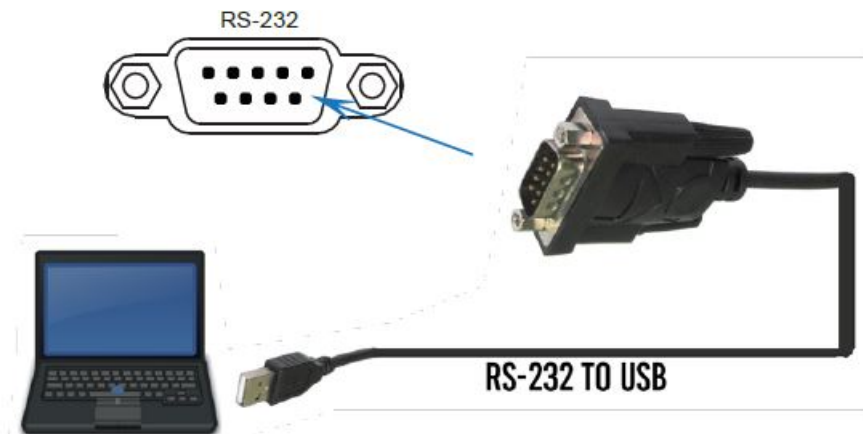
1. Panel Lock: Click “Panel Lock” to lock/unlock panel buttons. “On” indicates that panel buttons are unavailable; “Off” indicates panel buttons are available.
2. Beep: Click “Beep” to turn on/off the beep.
3. LCD: You can turn on/off the LCD and set the turn-on time (15s/30s/60s).
4. Serial Baud Rate: Click the value to set the Serial Baud Rate.
5. Firmware Update: Click “Browse” to select the update file, then click “Update” to complete the firmware update.

6. Factory Reset: You can reset the unit to factory defaults by clicking “Reset.”
7. Reboot: You can reboot the unit by clicking “Reboot.”

**Note:** After reset/reboot, it will switch to the login page.

## RS-232 Control Command

The product also supports RS-232 control. You need a serial cable with RS-232 male head and DB9 transfer USB male head. The RS-232 head of the serial cable is connected to the RS-232 control port with DB 9 at the rear of the Matrix, and the USB head of the serial cable is connected to a PC. The connection method is as follows:



Then, open a Serial Command tool on a PC to send ASCII commands to control the Matrix. The ASCII command list about the product is shown below.

ASCII Command				
Serial port protocol. Baud rate: 115200, Data bits: 8bit, Stop bits:1, Check bit: 0				
x – Parameter 1 y – Parameter 2 ! – Delimiter				
Command Code	Function Description	Example	Feedback	Default Setting
<b>Power</b>				
s power z!	Power on/off the device,z=0~1 (z=0 power off, z=1 power on)	s power 1!	Power on  System Initializing ... Initialization Finished! FW version x.xx.xx	power on
r power!	Get current power state	r power!	power on/power off	
s reboot!	Reboot the device	s reboot!	Reboot...  System Initializing ...  Initialization Finished! FW version x.xx.xx	
<b>System Setup</b>				
help!	List all commands	help!		
r type!	Get device model	r type!	HDP-MXB1616	

Command Code	Function Description	Example	Feedback	Default Setting
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r status!	Get device current status	r status!	Get the unit all status : power, beep, lock, i n/ out connection, vi deo/ audio crosspoin t, edid, scaler, network status	
r fw version!	Get Firmware version	r fw version!	MCU BOOT: Vx.xx.x x MCU APP: Vx.xx.x x WEB GUI: Vx.xx	
r link in x!	Get the connection status of th e x input port x=0~16(0=all)	r link in 1!	hdmi input 1: connec t	
r link out y!	Get the connection status of th e y output port y=0~16(0=all)	r link out 1!	hdmi output 1: connect	
s reset!	Reset to factory defaults	s reset!	Reset to factory defa ults System Initializin g...  Initialization Finished ! FW version x.xx.xx	
s beep z!	Enable/Disable buzzer function , z=0~1(z=0 beep off, z=1 beep on)	s beep 1!	beep on beep off	beep on
r beep!	Get buzzer state	r beep!	beep on / beep off	
s lock z!	Lock/Unlock front panel button, z=0~1(z=0 lock off,z=1 lock on)	s lock 1!	panel button lock on panel button lock off	panel button loc k off
r lock!	Get panel button lock state	r lock!	panel button lock on/ off	

s lcd on time z!	Set LCD screen remain on time , z=0~4(0:off, 1:always on, 2:15s, 3:30s, 4:60s)	s lcd on time 1!	lcd on 15 seconds	lcd on 30 seconds
r lcd mode!	Get the backlight status of lcd screen	r lcd mode!	lcd always on	
s save preset z!	Save switch state between all output port and the input port to preset z, z=1~8	s save preset 1!	save to preset 1	
s recall preset z!	Call saved preset z scenarios, z=1~8	s recall preset 1!	recall from preset 1	
s clear preset z!	Clear stored preset z scenarios , z=1~8	s clear preset 1!	clear preset 1	
r preset z!	Get preset z information, z=1~8	r preset 1!	video/audio crosspoint	
<b>Output Setting</b>				
s in x av out y!	Set input x to output y x=1~16, y=0~16(0=all)	s in 1 av out 2!	input 1 -> output 2	PTP
r av out y!	Get output y signal status y=0~16(0=all)	r av out 0!	input 1 -> output 1 input 2 -> output 2 ..... input 16 -> output 16	

s hdmi y stream z!	Set output y stream on/off, y=0~16(0=all) z=0~1(0:disable,1:enable)	s hdmi 1 stream 1!  s hdmi 0 stream 1!	Enable hdmi output 1 stream  Disable hdmi output 1 stream  Enable hdmi all outputs stream  Disable hdmi all outputs stream	enable
r hdmi y stream!	Get output y stream status, y=0~16(0=all)	r hdmi 1 stream!	Enable hdmi output 1 stream	
s hdmi y scaler z!	Set hdmi output y port output scaler mode y=0~16 (0=all), z=1~3(1=bypass, 2=4K- >1080p, 3=Auto)	s hdmi 1 scaler 1!  s hdmi 0 scaler 1!	hdmi output 1 set to bypass mode  hdmi all outputs set to bypass mode	hdmi all outputs set to bypass mode

<b>Command Code</b>	<b>Function Description</b>	<b>Example</b>	<b>Feedback</b>	<b>Default Setting</b>

r hdmi y scaler!	Get hdmi output y port output mode y=0~16(0=all)	r hdmi 1 scaler !	hdmi output 1 set to bypass mode	
<b>EDID Setting</b>				



	<p>Set input x EDID from default E DID z,</p> <p>x=0~16 (0=all),z=1~39</p> <p>1, 1080p,Stereo Audio 2.0</p> <p>2, 1080p,Dolby/DTS 5.1</p> <p>3, 1080p,HD Audio 7.1</p> <p>4, 1080i,Stereo Audio 2.0</p> <p>5, 1080i,Dolby/DTS 5.1</p> <p>6, 1080i,HD Audio 7.1</p> <p>7, 3D,Stereo Audio 2.0</p> <p>8, 3D,Dolby/DTS 5.1</p> <p>9, 3D,HD Audio 7.1</p> <p>10, 4K2K30_444,Stereo Audio 2 .0</p> <p>11, 4K2K30_444,Dolby/DTS 5.1</p> <p>12, 4K2K30_444,HD Audio 7.1</p> <p>13, 4K2K60_420,Stereo Audio 2 .0</p> <p>14, 4K2K60_420,Dolby/DTS 5.1</p> <p>15, 4K2K60_420,HD Audio 7.1</p> <p>16, 4K2K60_444,Stereo Audio 2 .0</p> <p>17, 4K2K60_444,Dolby/DTS 5.1</p> <p>18, 4K2K60_444,HD Audio 7.1</p>			
			input 1 EDID:1080p,	

s edid in x from z!	19, 4K2K60_444,Stereo Audio 2.0 HDR	s edid in 1 from 1!	Stereo Audio 2.0	1080p,Stereo Audio 2.0		
	20, 4K2K60_444,Dolby/DTS 5.1 HDR					
	21, 4K2K60_444,HD Audio 7.1 HDR	s edid in 0 from 1!				
	22, USER1					
	23, USER2	all inputs EDID:1080p, Stereo Audio 2.0				
	24, copy from hdmi output 1					
	25, copy from hdmi output 2					
	26, copy from hdmi output 3					
	27, copy from hdmi output 4					
	28, copy from hdmi output 5					
	29, copy from hdmi output 6					
	30, copy from hdmi output 7					
	31, copy from hdmi output 8					
	32, copy from hdmi output 9					
	33, copy from hdmi output 10					
	34, copy from hdmi output 11					
	35, copy from hdmi output 12					
	36, copy from hdmi output 13					
	37, copy from hdmi output 14					
	38, copy from hdmi output 15					
	39, copy from hdmi output 16					

<p>r edid in x!</p>	<p>Get EDID status of the input x x =0~16(0=all input)</p>	<p>r edid in 0!</p>	<p>input 1 EDID: 4K2K6 0_444,  Stereo Audio 2.0  input 2 EDID: 4K2K6 0_444,  Stereo Audio 2.0  input 3 EDID: 4K2K6 0_444,  Stereo Audio 2.0  input 4 EDID: 4K2K6 0_444,  Stereo Audio 2.0</p>	
<p>r edid data hdmi y!</p>	<p>Get the EDID data of the hdmi output y port y=1~16</p>	<p>r edid data hdmi 1!</p>	<p>EDID: 00 FF FF FF F F FF FF 00 .....</p>	

Audio Setting				
s hdmi y arc z!	Turn on/off ARC of HDMI output y, y=0~16(0=all) z=0~1(z=0,off,z=1 on)	s hdmi 1 arc 1!  s hdmi 0 arc 1!	hdmi output 1 arc on hdmi output 1 arc off  hdmi all outputs arc o n hdmi all outputs arc off	
r hdmi y arc!	Get the ARC state of HDMI outp ut y y=0~16(0=all)	r hdmi 1 arc!	hdmi output 1 arc on	off

Command Code	Function Description	Example	Feedback	Default Setting
CEC Setting				
s cec in x on!	set input x power on by CEC, x=0~16(0=all input)	s cec in 1 on!	input 1 power on	
s cec in x off!	set input x power off by CEC, x=0~16(0=all input)	s cec in 1 off!	input 1 power off	
s cec in x menu!	set input x open menu by CEC, x=0~16(0=all input)	s cec in 1 menu!	input 1 open menu	
s cec in x back!	set input x back operation by CEC, x=0~16(0=all input)	s cec in 1 back!	input 1 back operation	

s cec in x up!	set input x menu up operation by CEC, x=0~16(0=all input)	s cec in 1 up!	input 1 menu up operation	
s cec in x down!	set input x menu down operation by CEC, x=0~16(0=all input)	s cec in 1 down!	input 1 menu down operation	
s cec in x left!	set input x menu left operation by CEC, x=0~16(0=all input)	s cec in 1 left!	input 1 menu left operation	
s cec in x right!	set input x menu right operation by CEC, x=0~16(0=all input)	s cec in 1 right!	input 1 menu right operation	
s cec in x enter!	set input x menu enter by CEC, x=0~16(0=all input)	s cec in 1 enter!	input 1 menu enter operation	
s cec in x play!	set input x play by CEC, x=0~16(0=all input)	s cec in 1 play!	input 1 play operation	

s cec in x pause!	set input x pause by CEC, x=0~16(0=all input)	s cec in 1 pause!	input 1 pause operation	
s cec in x stop!	set input x stop by CEC, x=0~16(0=all input)	s cec in 1 stop!	input 1 stop operation	
s cec in x rew!	set input x rewind by CEC, x=0~16(0=all input)	s cec in 1 rew!	input 1 rewind operation	
s cec in x mute!	set input x volume mute by CEC, x=0~16(0=all input)	s cec in 1 mute!	input 1 volume mute	
s cec in x vol-!	set input x volume down by CEC, x=0~16(0=all input)	s cec in 1 vol-!	input 1 volume down	
s cec in x vol+!	set input x volume up by CEC, x=0~16(0=all input)	s cec in 1 vol+!	input 1 volume up	

s cec in x ff!	set input x fast forward by CEC, x=0~16(0=all input)	s cec in 1 ff!	input 1 fast forward operation	
s cec in x previous!	set input x previous by CEC, x=0~16(0=all input)	s cec in 1 previous!	input 1 previous operation	
s cec in x next!	set input x next by CEC, x=0~16(0=all input)	s cec in 1 next!	input 1 next operation	
s cec hdmi out y on!	set hdmi output y power on by CEC, y=0~16(0=all output)	s cec hdmi out 1 on!	hdmi output 1 power on	
s cec hdmi out y off	set hdmi output y power off by CEC, y=0~16(0=all output)	s cec hdmi out 1 off!	hdmi output 1 power off	
s cec hdmi out y mute!	set hdmi output y volume mute by CEC, y=0~16(0=all output)	s cec hdmi out 1 mute!	hdmi output 1 volume mute	



s cec hdmi out y vol-!	set hdmi output y volume down by CEC, y=0~16(0=all output)	s cec hdmi out 1 vol-!	hdmi output 1 volume down	
s cec hdmi out y vol+!	set hdmi output y volume up by CEC, y=0~16(0=all output)	s cec hdmi out 1 vol+!	hdmi output 1 volume up	
s cec hdmi out y active!	set hdmi output y active source by CEC, y=0~16(0=all output)	s cec hdmi out 1 active!	hdmi output 1 active source	

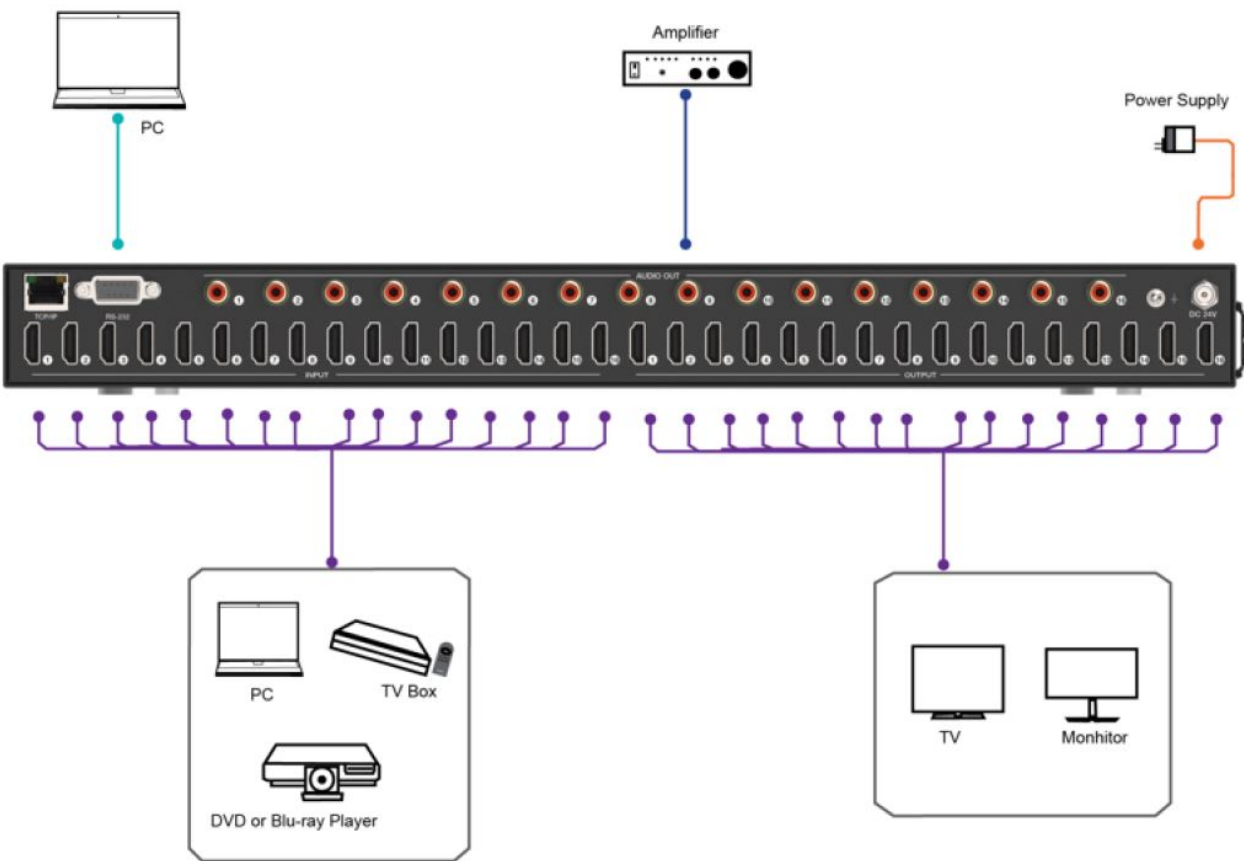
Command Code	Function Description	Example	Feedback	Default Setting
<b>Network Setting</b>				
r ipconfig!	Get the Current IP Configuration	r ipconfig!	IP Mode: Static IP: 192.168.1.72 Subnet Mask: 255.255.255.0 Gateway: 192.168.1.1 TCP/IP port=8000 Telnet port=10 Mac address: 00:1C:91:03:80:01	
r mac addr!	Get network MAC address	r mac addr!	Mac address: 00:1C:91:03:80:01	

s ip mode z!	Set network IP mode to static IP or DHCP, z=0~1 (z=0 Static, z=1 DHCP )	s ip mode 0!	Set IP mode:Static  (Please use “s net reboot!” command or repower device to apply new config!)	
r ip mode!	Get network IP mode	r ip mode!	IP Mode: Static	
s ip addr xxx.xxx.xxx.xxx!	Set network IP address	s ip addr 192.168.1.100!	Set IP address:  192.168.1.100 (Please  use “s net reboot!” command or repower device to apply new config!)  DHCP on, Device can't config static address, set DHCP off first.	
r ip addr!	Get network IP address	r ip addr!	IP address:  192.168.1.100	
s subnet xxx.xxx.xxx.xxx!	Set network subnet mask	s subnet 255.255.255.0!	Set subnet Mask: 255.255.255.0  (Please use “s net reboot!” command or repower device to apply new config!)  DHCP on, Device can't config subnet mask, set DHCP off first.	
r subnet!	Get network subnet mask	r subnet!	Subnet Mask: 255.255.255.0	


s gateway xxx.xx x.xxx.xxx!	Set network gateway	s gateway 192.1 68.1.1!	Set gateway: 192.16 8.1.1  Please use “s net reb oot!” command or re power device to appl y new config!  DHCP on, Device ca n’t config gateway, s et  DHCP off first.	
r gateway!	Get network gateway	r gateway!	Gateway:192.168.1.1	
s tcp/ip port x!	Set network TCP/IP port (x=1~ 65535)	s tcp/ip port 800 0!	Set TCP/IP port:8000	
r tcp/ip port!	Get network TCP/IP port	r tcp/ip port!	TCP/IP port:8000	
s telnet port x!	Set network telnet port (x=1~65 535)	s telnet port 23!	Set Telnet port:23	
r telnet port!	Get network telnet port	r telnet port!	Telnet port:23	

Command Code	Function Description	Example	Feedback	Default Setting
s net reboot!	Reboot network modules	s network reboot!	Network reboot...	
			IP Mode: Static	
			IP: 192.168.1.72	
			Subnet Mask:	
			255.255.255.0	
			Gateway: 192.168.1. 1	
			TCP/IP port=8000	
			Telnet port=10	
			Mac address:  00:1C:91:03:80:01	

Application Example



Documents / Resources

	<p><a href="#">VigilLink VLMX-1616E Matrix with Video Wall</a> [pdf] User Manual</p> <p>VLMX-1616E Matrix with Video Wall, VLMX-1616E, Matrix with Video Wall, Video Wall, Wall</p>
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References

[Manuals+.](#)