



VigilLink VLMX-0404E 4X4 HDMI 2.0 Matrix with Output 4K to 1080p Downscaling and Display Control User Manual

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Introduction

This high-performance HDMI Matrix Switcher can switch any of these four HDMI 2.0 sources to four HDMI 2.0 displays. Each input and output supports up to 4K60 444 resolution and HDCP 2.2. The outputs can be

individually scaled for 1080p. De-embedded audio as analog L/R and coaxial is available for both outputs. The ARC function can return display device audio to coaxial port output only. Advanced EDID management is supported with its 18Gbps bandwidth and additional features with the latest HDMI standards. This switcher can be controlled from the front panel, RS-232, IR remote, or TCP/IP.

Features

- HDMI 2.0, HDCP 2.2 / HDCP 1.4, and DVI 1.0 compliant
- Four 18G HDMI 2.0 video inputs support up to 4K60 444 resolution
- Four 18G HDMI 2.0 video outputs support up to 4K60 444 resolution
- Four outputs can be individually scaled for 4K→1080p
- De-embedded audio to analog L/R and Coaxial ports output
- ARC audio returns to the coaxial port’s output only
- Built-in Web GUI for TCP/IP control
- Advanced EDID management supported
- Four methods of control: Front panel, RS-232, IR remote, and TCP/IP
- Compact design for easy and flexible installation

Package Contents

Qty	Item
1	4×4 HDMI 2.0 18Gbps Matrix Switcher
1	12V/2.5A Locking Power Adapter
1	IR Remote
2	Mounting Ears
1	38KHz IR Receiver Cable (1.5 meters)
1	3-pin Phoenix Connector
1	User Manual

Specifications

Technical	
HDMI Compliance	HDMI 2.0
HDCP Compliance	HDCP 2.2 and HDCP 1.4
Video Bandwidth	18 Gbps

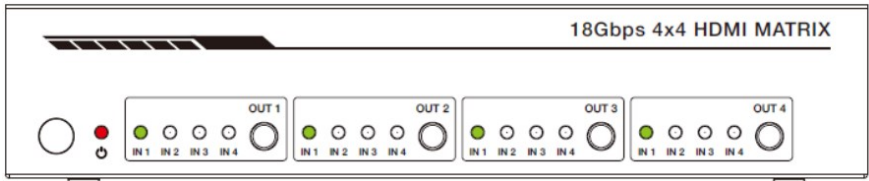
Video Resolution	4K2K 50/60Hz 4:4:44K2K 50/60Hz 4:2:04K2K 30Hz 4:4:41080p, 1080i, 720p, 720i, 480p, 480iAll HDMI 3D TV formatsAll PC resolutions, including 1920 x 1200
Output Scaling	4K to 1080p
3D Support	Yes
Color Space	RGB, YCbCr4:4:4, YCbCr4:2:2, YCbCr 4:2:0
Color Depth	8-bit, 10-bit, 12-bit [1080P, 4K30Hz, 4K60Hz (YCbCr 4:2:0)]8-bit [4K60Hz (YCbCr 4:4:4)]
HDMI Audio Formats	PCM2.0/5.1/7.1CH, Dolby Digital/Plus/EX, Dolby True HD, DTS, DTS-EX, DTS-96/24, DTS High Res, DTS-HD MasterAudio, DSD
Coaxial Audio Formats	PCM2.0, Dolby Digital / Plus, DTS 2.0/5.1
L/R Audio Formats	PCM2.0CH
HDR Support	HDR10, HDR10+. Dolby Vision, HLG
ESD Protection	Human-body Model: ±8kV (Air-gap discharge), ±4kV (Contact discharge)
Connections	
Input Ports	4×HDMI Type A [19-pin female]
Output Ports	4×HDMI Type A [19-pin female]4×L/R audio out [3.5mm Stereo Mini-jack] 4×COAX audio out [RCA]

Control ports	1x TCP/IP [RJ45]1x RS-232[3-pin phoenix connector] 1x IR EXT [3.5mm Stereo Mini-jack]
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Mechanical			
Housing	Metal Enclosure		
Color	Black		
Dimensions	220mm (W)×105mm (D)×44mm (H)		
Weight	792g		
Power Supply	Input: AC100~240V 50/60HzOutput: DC12V/2.5A (Locking connector)		
Power Consumption	10W (max), 1.56W (Standby)		
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-Condensation)		
Resolution / Cable Length	4K60 –Feet / Meters	4K30 –Feet / Meters	1080P60 –Feet / Meters
HDMI IN / OUT	10ft / 3M	30ft / 10M	42ft / 15M
The use of the “Premium High-Speed HDMI” cable is highly recommended.			

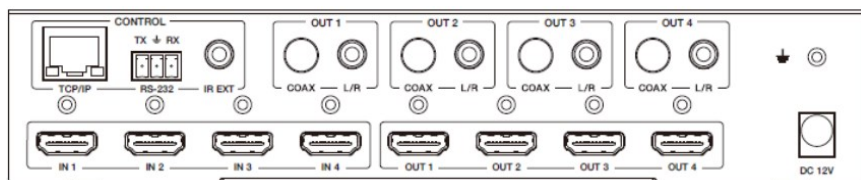
Operation Controls and Functions

Front Panel



Name	Function description
IR Sensor	IR input for remote control of the switcher.
POWER LED	Red LED indicates that the unit is powered.
OUT 1 / OUT 2 /OUT 3 / OUT 4 Button	Press to select the desired input.
IN 1 IN2 / IN3 / IN4 LED	Green LED indicates when the input is selected for therespective output.

Rear Panel



Name	Function description
TCP/IP (RJ45)	Control port for TCP/IP control or accessing the built-in Web GUI.
RS-232	3-pin pluggable connector for RS-232 control of the Switcher.
IR EXT	IR eye input for IR control of the Switcher.
Coaxial Audio OUT 1/ OUT 2 / OUT 3 / OUT 4	RCA connector for coaxial audio output from HDMI OUT 1/ OUT 2 / OUT 3 / OUT 4.
L/R Audio OUT 1/ OUT 2 / OUT 3 / OUT 4	3.5mm Mini-jack connector for stereo audio output from HDMI OUT 1 / OUT 2 / OUT 3 / OUT 4.
Earthing Point	Screw terminal for earthing the Switcher.
HDMI Input 1 to 4	HDMI Source inputs 1 to 4.
HDMI Output 1 to 4	HDMI outputs for displays 1 to 4.
DC 12V IN	DC 12V input for 12V 2.5A PSU.

Connecting to the Switcher

1. Connect the desired HDMI input sources.
2. Connect the desired HDMI display devices.
3. Connect any CONTROL inputs that may be required: TCP/IP, RS-232, or IR IN.
4. Connect any audio devices to either the Coaxial or L/R outputs.
5. Connect the 12V DC PSU.

Using the Switcher

Power LED and Standby Mode

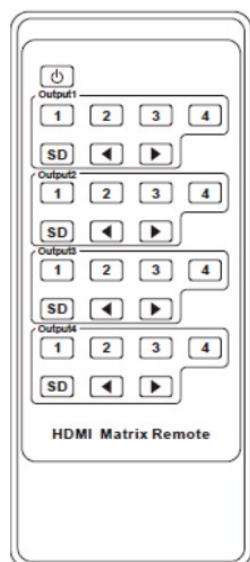
The Power LED provides the following indications:

Color	Description
Red	The Switcher is active and fully controllable
Off	The Switcher is in standby mode; this state can be changed using API commands, IR Remote, or the Web GUI interface.

Selecting Inputs

Manual Selection of the inputs is done by briefly pressing the OUT 1 / OUT 2 / OUT 3 / OUT 4 button repeatedly for that channel until the desired input is selected.

IR Remote



	Power on the Switcher or set it to standby mode.
Output 1 (Output 2 / 3 / 4)	
1/2/3/4	Select the desired input source to Output 1 port output, the corresponding green LED on the front panel illuminates.
SD	Switch downscale or bypass mode to the Output 1 port output.
	Select the last or next the desired input source to Output 1 port output, the corresponding green LED on the front panel illuminates.

Using the Built-In Web GUI Interface

The Switcher has a built-in Web interface to provide a means of controlling or configuring various settings. There are six pages available, each of which will be outlined in detail in the following sections:

The six pages are:

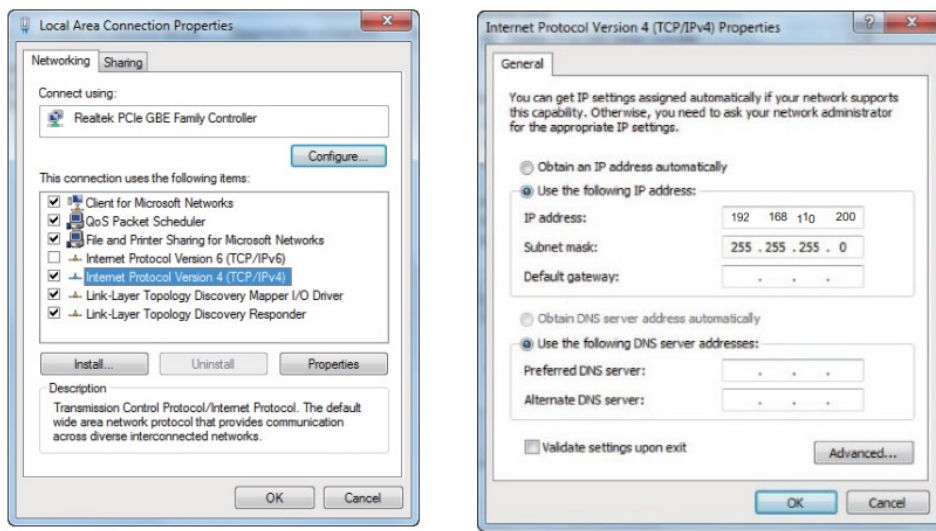
1. Status – Display information about the firmware and IP setting.
2. Video – Switch the desired input source to output and set the preset.
3. Input – Display information about the input signal and EDID setting.
4. Output – Display information about the output signal and scaler option.
5. Network – Allow basic network setting management and login options.
6. System – Panel lock, beep, serial baud rate setting, and firmware update

Note that these six pages are only accessible in Admin mode; only the Status and Video pages are available when User mode is used.

To access the Web interface, enter the switcher's IP address into any web browser's address bar. The default IP address is 192.168.1.100. Please see the following operation method. Note that if the switcher's IP address is unknown, use the RS-232 command given in the Network Setting section "r ip addr!" to discover the current IP address or set the switcher to factory default status and IP address restores to default 192.168.1.100.

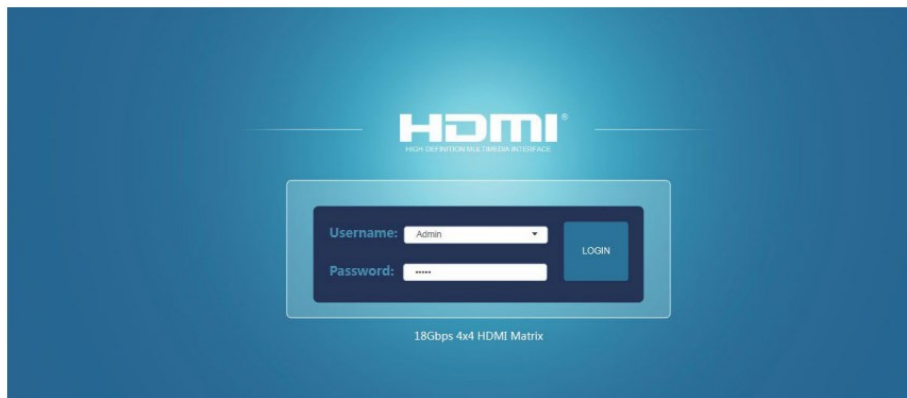
Step 1: The TCP/IP port on the rear panel has directly connected a PC with a UTP cable.

Step 2: Set your PC IP address to the same network segment with Switcher; for instance, set your PC IP address to 192.168.1.200 and Subnet mask to 255.255.255.0.



Step 3: Enter the Switcher's IP address into your browser on the PC to enter the Web GUI

After entering the IP address, the following log-in screen will appear:



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

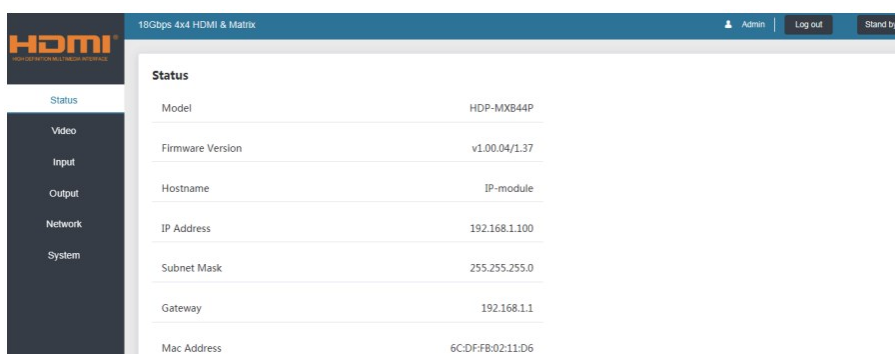
Username User Admin

Password user admin

After entering the log-in details, click the LOGIN button, and the following Status page will appear.

Status page

The Status page provides basic information about the product Model name, the installed firmware version, and the network setting. This page is visible in both User and Admin modes.



The buttons at the top right of the web interface are always available and provide the following function:

- The Log-out button will disconnect the current user from displaying the log-in screen.
- The Power on button changes the power status of the Switcher between On and Stand-by mode.

Video page

The Video page allows the input source selection and sets the presets.

The Video page interface includes a sidebar with navigation links: Status, Video, Input, Output, Network, and System. The main content area is titled '18Gbps 4x4 HDMI & Matrix' and features a 'Switch' section with a table of outputs and video sources, and a 'Presets' section with a table of preset names and actions.

Outputs	Video Source
Output 1	HDMI 1 INPUT
Output 2	HDMI 2 INPUT
Output 3	HDMI 3 INPUT
Output 4	HDMI 4 INPUT

Presets Name	Presets Set	Presets Save	Presets Clear
preset1	Set	Save	Clear
preset2	Set	Save	Clear
preset3	Set	Save	Clear
preset4	Set	Save	Clear

For this preset setting, you first need to select the desired input source to four output ports. Then click the Save button to save the setting. When you click the line Set button, this preset you have saved will be used. The Clear button will clear the preset. There are four presets setting available.

Input page

The Input page provides information about which inputs are connected and have a signal. The inputs can be given more meaningful names if desired. The EDID column provides a list of EDID options for each input. The following EDID options are available in any of the EDID drop-down lists

The Input page interface includes a sidebar with navigation links: Status, Video, Input, Output, Network, and System. The main content area is titled '18Gbps 4x4 HDMI & Matrix' and features an 'Input Setting' table with columns for Inputs, Active, Name, and EDID. Below the table are sections for 'Load EDID to User Memory' and 'Load EDID to Computer'.

Inputs	Active	Name	EDID
HDMI 1	●	Input1	4K2K60_444,Stereo Audio 2.0 HDR
HDMI 2	●	Input2	4K2K60_444,HD Audio 7.1 HDR
HDMI 3	●	Input3	4K2K60_444,Stereo Audio 2.0 HDR
HDMI 4	●	Input4	4K2K60_444,Stereo Audio 2.0 HDR

Load EDID to User Memory

Select EDID File:

Select Destination:

Load EDID to Computer

Select EDID File:

- 1080P, Stereo Audio 2.0
- 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
- 3D, Stereo Audio 2.0
- 3D, Dolby/DTS 5.1
- 3D, HD Audio 7.1

- 4K2K30Hz_444 Stereo Audio 2.0
- 4K2K30Hz_444 Dolby/DTS 5.1
- 4K2K30Hz_444 HD Audio 7.1
- 4K2K60Hz_420 Stereo Audio 2.0
- 4K2K60Hz_420 Dolby/DTS 5.1
- 4K2K60Hz_420 HD Audio 7.1
- 4K2K60Hz_444 Stereo Audio 2.0
- 4K2K60Hz_444 Dolby/DTS 5.1
- 4K2K60Hz_444 HD Audio 7.1
- 4K2K60Hz_444 Stereo Audio 2.0 HDR
- 4K2K60Hz_444 Dolby/DTS 5.1 HDR
- 4K2K60Hz_444 HD Audio 7.1 HDR
- USER_1
- USER_2
- COPY_FROM_TX_1
- COPY_FROM_TX_2
- COPY_FROM_TX_3
- COPY_FROM_TX_4

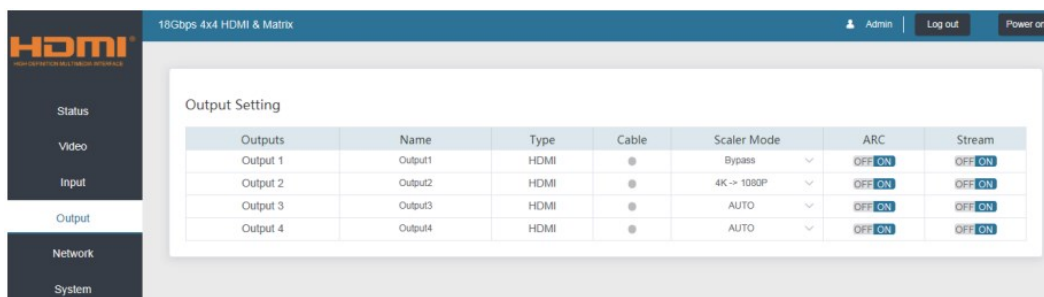
This page also provides a means of sending a binary EDID file to either User 1 or User 2 EDID memories:

1. Select the binary EDID file on your PC by clicking the Browse button.
2. Select either User 1 or User 2 from the drop-down list.
3. Click the Upload button.

The EDID data from any input or from the User 1 and User 2 locations can be read and stored on your PC.

Output page

The outputs can also be assigned meaningful names if desired. The Output page provides information about the signal status of the outputs.



The Scaler mode menu provides the following options:

Bypass	Follow the input source. (Pass-through)
4K→1080P	Downscale to 1080p, if needed.
AUTO	Scaler to match the display requirements.

The ARC buttons enable or disable the display device audio to the coaxial audio outputs. If the ARC function enables, the L/R audio port will have no voice output simultaneously. The Stream buttons enable or disable the output signal for the respective output.

Network page

The Network page allows the configuration of the network settings. Note that the IP address boxes are only accessible when the Mode button is set to Static. The log-in passwords can be changed on this page. Note that any changes to this page will require the new details into the web browser and/or the log-in screen.

The screenshot shows the 'HDMI 18Gbps 4x4 HDMI & Matrix' web interface. The top bar includes 'Admin', 'Log out', and 'Power on' buttons. The sidebar on the left lists 'Status', 'Video', 'Input', 'Output', 'Network', and 'System'. The 'Network' page is selected, displaying two sections: 'IP Settings' and 'Web Login Settings'. In 'IP Settings', the 'Mode' is set to 'Static' (with 'DHCP' also available). Fields for 'IP Address' (192.168.1.100), 'Gateway' (192.168.1.1), 'Subnet Mask' (255.255.255.0), and 'Telnet Port' (23) are present. The 'Web Login Settings' section includes 'Username' (User/Admin), 'Old Password', 'New Password', 'Confirm', and 'Password' fields, along with a 'Product Model' dropdown set to 'HDP-MXD44P'. At the bottom are 'Get Network Defaults' and 'Save' buttons.

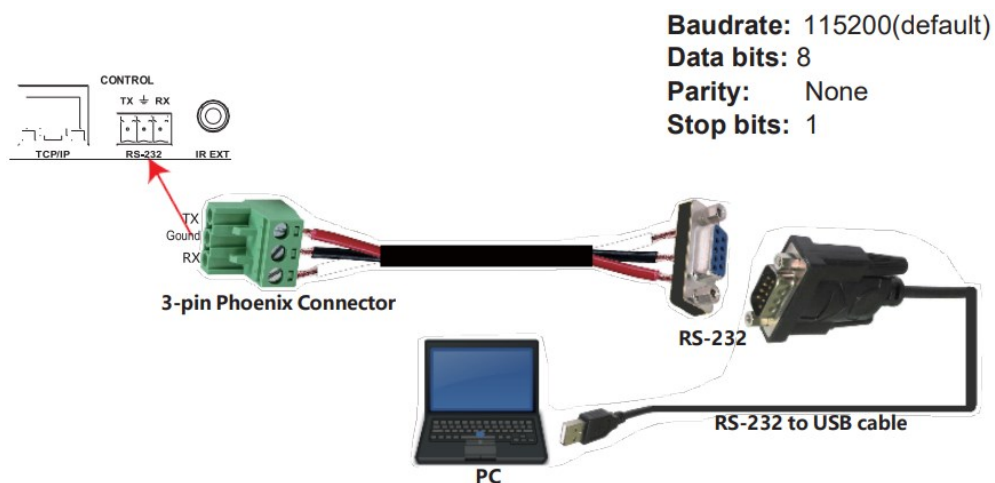
System page

The system page allows setting the panel lock and beeping on/off to control the RS-232 port baud rate. This page is also used to install the new firmware update, restore the factory default settings and reboot the Switcher

The screenshot shows the 'HDMI 18Gbps 4x4 HDMI & Matrix' web interface with the 'System' page selected in the sidebar. The 'System' page contains four main sections: 'Panel Lock' with 'OFF' and 'ON' buttons; 'Beep' with 'OFF' and 'ON' buttons; 'Serial Baud Rate' with a dropdown menu showing options 4800, 9600, 19200, 38400, 57600, and 115200 (currently set to 115200); and 'Firmware Update' with a 'Browse...' button, an 'Update' button, a 'Factory Reset' button, and a 'Reboot' button.

API control command

RS-232 can also control the Switcher. Connect a PC using a serial cable and open any Serial Command tool on the PC such as Comm Operator, Docklight or hercules, etc. to send a command for controlling the Switcher. Please see the following connection diagram.



Important:

1. All messages sent to the Switcher must be terminated with an exclamation mark (!). Any carriage return present after the command's end will be ignored.
2. All spaces shown in the commands are required.
3. A CR/LF sequence terminates all response messages.
4. When the same command requests all four inputs, the response will report each input on a separate line.
5. When the same command requests four outputs, the response will report each output on a separate line

The ASCII list of the product is shown below.

ASCII Command		
Serial port protocol: Baud rate 115200 (default), Data bits: 8bit, Stop bits:1, Check bit: None TCP/IP protocol port: 8000The x, y, z, and XXX are parameters.		
RS-232Command	Function description	Feedback
Power		
s power z!	power on/off the device,z=0~1(z=0 power off, z=1 power on)	power onSystem Initializing... I initialization Finished! power off
r power!	get current power state	power on /power off
s reboot!	reboot the device	Reboot...System Initializing... I initialization Finished!

SYSTEM Setup		
help!	Lists all commands	
r type!	Get device model	HDP-MXB44P
r status!	Get device current status	Get the unit all status: power, beep, lock, in/out connection, video/audio crosspoint, edid, scaler,hdcp, network status
r fw version!	Get Firmware version	MCU FW version x.xx.xx
r link in x!	Get the connection status of the x input port, x=0~4(0=all)	HDMI IN1: connect
r link out y!	Get the connection status of the y output port, y=0~4(0=all)	HDMI OUT1: connect
s reset!	Reset to factory defaults	Reset to factory defaults System Initializing...Initialization Finished!
s beep z!	Enable/Disable buzzer function,z=0~1(z=0 beep off, z=1 beep on)	beep on / beep off
r beep!	Get buzzer state	beep on / beep off
s lock z!	Lock/Unlock front panel button,z=0~1(z=0 lock off,z=1 lock on)	panel button lock on panel button lock off
r lock!	Get panel button lock state	panel button lock on/off
s save preset z!	Save switch state between all output port and the input port to preset z z=1~8	save to preset 1

s recall preset z!	Call saved preset z scenarios z=1~8	recall from preset 1
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s clear preset z!	Clear stored preset z scenarios,z=1~8	clear preset 1
r preset z!	Get preset z infomation, z=1~8	video/audio crosspoint
s baud rate xxx!	Set the serial port baud rate of RS02 module, z=(115200,57600,38400,19200,9600,4800)	Baudrate:115200
r baud rate!	Get the serial port baud rate of RS02 module	Baudrate:115200
s id z!	Set the control ID of the product, z=000~999	id 888

Output Setting

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

r hdmi y scaler !	Get hdmi output y port output mode y=0~4(0=all)	hdmi 1 set to bypass mode
s hdmi y hdcpc z!	Set hdmi output y port hdcpc status y=0~4(0=all) z=0~1(1=active,0=off)	hdmi 1 hdcpc active
r hdmi y hdcpc!	Get HDCP status of HDMI out y, y=0~4(0=all)	hdmi 1 hdcpc active
Audio Setting		
s hdmi y arc z!	Turn on/off arc of HDMI output y y=0~4(0=all) z=0~1(z=0,off,z=1 on)	hdmi output 1 arc on hdmi output 1 arc off
r hdmi y arc!	Get the arc state of HDMI output y y=0~4(0=all)	hdmi out1 arc on
EDID Setting		
r edid in x!	Get EDID status of the input x, x=0~4(0=all inputs)	IN1 EDID: 4K2K60_444,Stereo Audio 2.0IN2 EDID: 4K2K60_444,Stereo Audio 2.0IN3 EDID: 4K2K60_444,Stereo Audio 2.0IN4 EDID: 4K2K60_444,Stereo Audio 2.0
r edid data hdmi y!	Get the EDID data of the hdmi output y port, y=1~4	EDID : 00 FF FF FF FF FFFF 00

s edid in x from z!	Set input x EDID from default EDID z, x=0~4(0=all),z=1~231 1080p,Stereo Audio 2.02 1080p, Dolby/DTS 5.13 1080p,HD Audio 7.14 1080i,Stereo Audio 2.05 1080i,Dolby/DTS 5.16 1080i,HD Audio 7.17 3D, Stereo Audio 2.08 3D,Dolby/DTS 5.19 3D,HD Audio 7.1 10 4K2K30_444,Stereo Audio 2.011 4K2K30_444,Dolby/DTS 5.112 4K2K30_444,HD Audio 7.113 4K2K60_420,Stereo Audio 2.014 4K2K60_420,Dolby/DTS 5.115 4K2K60_420,HD Audio 7.116 4K2K60_444,Stereo Audio 2.017 4K2K60_444,Dolby/DTS 5.118 4K2K60_444,HD Audio 7.119 4K2K60_444,Stereo Audio 2.0 HDR20 4K2K60_4 44,Dolby/DTS 5.1 HDR21 4K2K60_444,HD Audio 7.1 H DR22 USER123 USER224 Copy_From_Hdmi_Tx_125 Copy_From_Hdmi_Tx_226 Copy_From_Hdmi_Tx_3 2 7 Copy_From_Hdmi_Tx_4	IN1 EDID:1080p,Stereo Audio 2.0
Network setting		
r ipconfig!	Get the Current IP Configuration	IP Mode: Static, IP: 192.168.1.72Subnet Mask: 255.255.255.0,Gateway: 192.168.1.1Mac address: 00:1C:91:03:80:01 TCP/IP port=8000, telnet port=10

r mac addr!	Get network MAC address	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)	Set IP mode:Static. Please use “s net reboot!”command or repower device to apply new config!
r ip mode!	Get network IP mode	IP mode: Static
s ip addr xxx.xxx. xx.xxx!	Set network IP address	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.

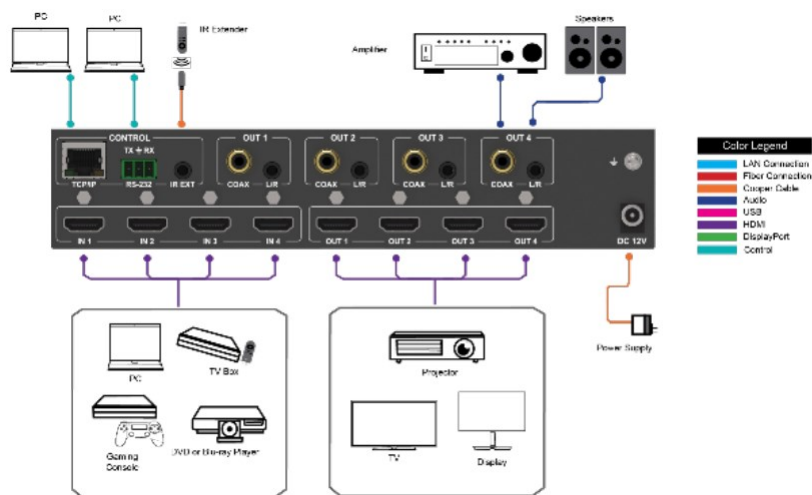
r ip addr!	Get network IP address	IP address:192.168.1.100
s subnet xxx.xxx. xx.xxx!	Set network subnet mask	Set subnet Mask:255.255.255.0 Please use “s net reboot!” command or repower device to apply new config!DHCP on, Device can’t config subnet mask, set DHCP off first.
r subnet!	Get network subnet mask	Subnet Mask:255.255.255.0
s gateway xxx.xxx. xxx.xxx!	Set network gateway	Set gateway:192.168.1.1 Please use “s net reboot!” command or repower device to apply new config! DHCP on, Device can’t config gateway, set DHCP off first.
r gateway!	Get network gateway	Gateway:192.168.1.1
s tcp/ip port x!	Set network TCP/IP port (x=1~65535)	Set tcp/ip port:8000
r tcp/ip port!	Get network TCP/IP port	tcp/ip port:8000
s telnet port x!	Set network telnet port(x=1~65535)	Set telnet port:23
r telnet port!	Get network telnet port	telnet port:23

s net reboot!	Reboot network modules	Network reboot... IP Mode: Static IP: 192.168.1.72Subnet Mask: 255.255.255.0Gateway: 192.168.1.1Mac address: 00:1C:91:03:80:01 TCP/IP port=8000telnet port=10
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r ip addr!	Get network IP address	IP address:192.168.1.100
s subnet xxx.xxx. xx.xxx!	Set network subnet mask	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	Subnet Mask:255.255.255.0
s gateway xxx.xxx. xxx.xxx!	Set network gateway	Set gateway:192.168.1.1 Please use “s net reboot!” command or repower device to apply new config! DHCP on, Device can’t config gateway, set DHCP off first.
r gateway!	Get network gateway	Gateway:192.168.1.1
s tcp/ip port x!	Set network TCP/IP port (x=1~65535)	Set tcp/ip port:8000
r tcp/ip port!	Get network TCP/IP port	tcp/ip port:8000
s telnet port x!	Set network telnet port(x=1~65535)	Set telnet port:23
r telnet port!	Get network telnet port	telnet port:23
s net reboot!	Reboot network modules	Network reboot... IP Mode: Static IP: 192.168.1.72Subnet Mask: 255.255.255.0Gateway: 192.168.1.1Mac address: 00:1C:91:03:80:01 TCP/IP port=8000telnet port=10

Note that you can send the ‘RS232 command’ to control the Switcher via the Serial Command tool. The ‘Function description’ explains the function of the command. The “Feedback” displays whether the command sends success or not and feedback on the information you need

Application Example



Documents / Resources

 VigilLink VLMX-0404E 4x4 HDMI 2.0 Matrix with output 4K to 1080p downscaling and display control 1080p User Manual VLM 100	VigilLink VLMX-0404E 4X4 HDMI 2.0 Matrix with Output 4K to 1080p Downscaling and Display Control [pdf] User Manual VLMX-0404E 4X4 HDMI 2.0 Matrix with Output 4K to 1080p Downscaling and Display Control, VLMX-0404E, 4X4 HDMI 2.0 Matrix with Output 4K to 1080p Downscaling and Display Control, 4X4 HDMI 2.0 Matrix, Output 4K to 1080p Downscaling and Display Control, Output 4K to 1080p Downscaling, Downscaling and Display Control, Display Control
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References

[Manuals+.](#)