ClimaxDigital

Premium 4K HDMI Matrix 4 X 2 with RS232 Model No: CHM0402V3P



User Manual

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.

Surge protection device recommended

This product contains sensitive electrical components that may be damaged by electrical spikes, surges, electric shock, lighting strikes, etc. Use of surge protection systems is highly recommended in order to protect and extend the life of your equipment.

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1. Introduction

This product is an 18G HDMI video switcher with 4 HDMI inputs and 2 scaling HDMI outputs. Each input and output supports up to 4K60 444 HDMI 18G video. The outputs can be individually scaled for 1080p or HDBaseT compatibility. De-embedded audio as analogue L+R and optical TosLink is available for both outputs. The Matrix Switcher can automatically control the display device using RS232, CEC or IR when the last input signal is lost, or when the first video input is detected. This switcher can be controlled from the front panel, RS232, IR, or LAN.

2. Features

- ☆ HDMI 2.0, HDCP 2.2 / HDCP 1.4 and DVI 1.0 compliant
- ☆ Four 18G HDMI 2.0 video inputs supporting up to 4K60 444 resolution
- ☆ Two 18G HDMI 2.0 video outputs supporting up to 4K60 444 resolution
- Automatic RS232, CEC and IR control of the display device power state
- ☆ Two sets of de-embedded audio analogue and TosLink outputs, for both outputs
- ☆ ARC decoding to the TosLink audio outputs only
- ☆ Test Pattern mode for testing output signal integrity to the display
- ☆ Built-in Web GUI for LAN control
- ☆ Four methods of control: Front panel, RS232, IR and LAN

3. Package Contents

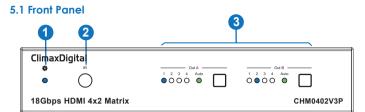
Qty	Item
1	4×2 HDMI 2.0 18Gbps Matrix Switcher
1	12V/1A Locking Power Adapter
1	IR Remote
2	Mounting Ears
2	IR Blaster Cables (1.5 meters)
1	20~60KHz IR Receiver Cable (1.5 meters)
5	3-pin Phoenix Connectors
1	User Manual

4. 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 4:4:4 4K2K 50/60Hz 4:2:0 4K2K 30Hz 4:4:4 1080p, 1080i, 720p, 720i, 480p, 480i All HDMI 3D TV formats All PC resolutions including 1920 x 1200		
3D Support	Yes		
Output Scaling	4K to 1080p 4K to HDBaseT (Down-scale to no more than 10.2Gbps)		
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 (YCbCr4:4:4)]		
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 Master Audio, DSD		
HDR formats	HDR10, HDR10+, Dolby Vision, HLG		
L/R Audio Formats	PCM2.0CH (Note: If ARC function is turned on, the audio port will mute.)		
Optical Audio Formats	PCM2.0, Dolby Digital / Plus, DTS		
Audio Frequency Response	20Hz to 20kHz, ±3dB		
RS232 Control	57600, No parity, 8 data bits, 1 stop bit, No handshaking		
RS232-A and RS232-B	Configurable from 4800 to 115200 baud; 7 or 8 bits; none, odd or even parity and 1 or 2 stop bits.		
ESD Protection	Human-body Model: ±8kV (Air-gap discharge), ±4kV (Contact discharge)		

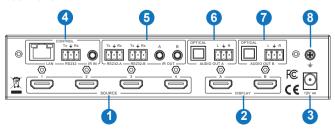
Connections			
Input Ports	4×HDMI Type A [19-pin female]		
Output Ports	2×HDMI Type A [19-pin female] 2×L/R audio out [3-pin phoenix connector] 2×OPTICAL audio out [S/PDIF] 2×RS232 A/B [3-pin phoenix connector]		
Control port	1×LAN [RJ45] 3×RS232 [3-pin phoenix connector] 1×IR IN [3.5mm Stereo Mini-jack] 2×IR OUT A/B [3.5mm Stereo Mini-jack]		
Mechanical			
Housing	Metal Enclosure		
Color	Black		
Dimensions	218mm(W)×140mm(D)×43mm(H)		
Weight	1050g		
Power Supply	Input: AC100~240V 50/60Hz Output: DC12V/1A (Locking connector)		
Power Consumption	4.3W (max)		
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)		
Resolution / Cable length	4K60 - Feet / Meters	4K30 - Feet / Meters	1080P60 - Feet / Meters
HDMI IN / OUT	16ft / 5M 32ft / 10M 50ft / 15M		
The use of "Premium	The use of "Premium High Speed HDMI" cable is highly recommended.		

5. Operation Controls and Functions



Number	Name	Function description	
1	Power LED	Blue LED indicates that the unit is powered. Red LED indicates that the unit is in standby mode.	
2	IR Sensor	IR input for remote control of the switcher	
3	Out A / Out B	LED and button for each output ■ LED 1 to LED 4: Blue LED Indicates when the input is selected for the respective output. ■ Auto LED: Green when Auto detection mode is enabled. ■ Press to select the desired input. ■ Press and hold for 3 seconds to toggle the Auto detection mode.	

5.2 Rear Panel



Number	Name	Function description	
1	SOURCE	HDMI Source inputs 1 to 4	
2	DISPLAY	HDMI outputs for displays A and B.	
3	12V	Plug DC 12V/1A power supply into the unit and connect the adapter to an AC outlet.	
		LAN (RJ45): Control port for LAN control or accessing the built-in Web GUI.	
4	CONTROL	RS232: 3-pin pluggable connector for RS232 control of the Matrix.	
		IR IN: IR Eye input for IR control of the Matrix.	
_	RS232-A / RS232-B	3-pin pluggable connectors for RS232 of the display devices.	
5	IR OUT A / IR OUT B	IR eye output for IR control of the display devices.	
		TosLink connector for optical audio from HDMI Output A	
6 AUDIO OUT A		3-pin pluggable connector for stereo audio from HDMI Output A	
		TosLink connector for optical audio from HDMI Output B.	
7	AUDIO OUT B	3-pin pluggable connector for stereo audio from HDMI Output B.	
8	Earthing Point	t Screw terminal for earthing the Matrix.	

5.3 Connecting to the Matrix

- 1. Connect the desired HDMI input sources.
- 2. Connect the desired HDMI display devices.
- 3. Connect any CONTROL inputs that may be required: LAN, RS232, or IR IN.
- Connect any Display control port: RS232-A, RS232-B, IR OUT A or IR OUT B.
- 5. Connect any audio devices to either the Optical or L+R outputs.
- 6. Connect the 12V DC PSU.

5.4 Using the Matrix

5.4.1 Power LED and Standby Mode

The Power LED provides the following indications:

Colour	Description	
Blue	The Matrix is active and fully controllable	
Red	The Matrix is in standby mode, this state can be changed by using RS232 or LAN commands, or from the Web GUI interface.	

5.4.2 Auto LED and Button

The green AUTO LED for both outputs A and B is lit when that channel has its Auto Detection mode active. Auto Detection mode will detect any new HDMI signals and immediate switch to the input. If the currently selected input is removed then the switcher will switch to the next available input, or remain on the current input if there are no active HDMI input signals.

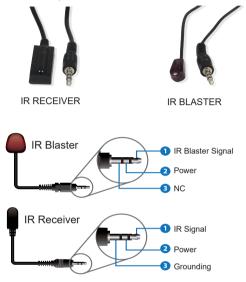
The change the Auto Detection mode, press and hold the button for that channel for 3 seconds until the Auto LED changes state.

5.4.3 Selecting Inputs

Manual Selection of the inputs is done by briefly pressing the push button repeatedly for that channel until the desired input is selected. Manual selection is always possible, irrespective of the Auto LED state. Selected inputs that have no signal will be indicated by a flashing LED.

5.5 IR Pin Definition

IR Receiver and Blaster pin's definition as below:



6. IR Remote



(h)	Power on the product or set it to standby mode.		
Output A	Output A / B		
1/2/3/4	Select input source signal to Out A / B port output, corresponding Out A / B LED on the front panel illuminates in blue.		
4 >	Select the last or next input source signal to OUT A / B port output, corresponding Out A / B LED on the front panel illuminates in blue.		
AUTO	Turn on / off AUTO function.		
4K/HD	Select Out A / B 4k→1080P downscale output. For example, if source is 4K but TV only supports 1080P, the input resolution with 4K will downscale to 1080P to TV output.		

7. Using the Built-In Web Interface

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

The seven pages are:

- 1. Status Displays information about the firmware and IP settings
- 2. Switch Control the video routing and enabling the test pattern mode
- 3. Input Displays information about the input signals and EDID settings
- 4. Output Displays information about the output signals and scaler options
- 5. Network Allows basic network setting management and login options
- 6. System Serial baudrate, test pattern setting and firmware update
- 7. Control Auto Power Control Settings and Commands

Note these seven pages are only accessible in **Admin** mode, when **User** mode is used only the **Status** and **Switch** pages are available.

To access the web interface, enter the IP address of the Matrix into the address bar of any web browser. If the IP address is not known, use the RS232 commands given in the Network Settings section "**r ip addr!**" to discover the IP address of the Matrix or set the product to factory default status and IP address reset to default 192.168.1.100. 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 versions and the network settings. 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 functions:

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

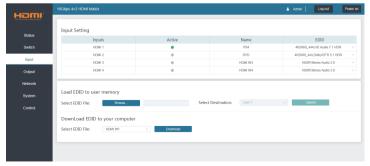
■ Switch page

The Switch page allows selection of the inputs sources, set the Auto Switch mode and to enable the test pattern mode.



■ Input page

The Input page provide information about which inputs are connected and have a signal present. The inputs can be giving more meaningful names, if desired. The EDID column provides a list of EDID options for each individual input.



The following EDID options are available in any of the EDID drop-down lists:

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 4K2K30 444. Stereo Audio 2.0 4K2K 30Hz 444 Dolby/DTS 5.1 4K2K 30Hz 444 HD Audio 7.1 4K2K 60Hz 420 Stereo Audio 2.0 4K2K 60Hz 420 Dolbv/DTS 5.1 4K2K 60Hz 420 HD Audio 7.1 4K2K 60Hz 444 Stereo Audio 2.0 4K2K 60Hz 444 Dolby/DTS 5.1 4K2K 60Hz 444 HD Audio 7.1 4K2K60 444.Stereo Audio 2.0 HDR 4K2K60 444.Dolbv/DTS 5.1 HDR 4K2K60 444,HD Audio 2.0 HDR USER1 USFR2 Copy from OUT 1 Copy from OUT 2

Note that the **User 1** and **User 2** are global EDID memories only. Any inputs that is set to one of these memories will always use the same EDID data from **User 1** or **User 2** respectively.

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

- 1. Select the binary EDID image file on your PC by click on 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 Output page provides information about the signal status of the outputs. The outputs can also be assigned meaningful names, is desired.



The scaler mode menu provides the following options:

Off	No scaling.	
4K→1080P	Downscale to 1080p, if needed.	
HDBT Mode Downscale to no more than 10.2Gbps for HDE compliance.		
Auto	Scale to match the display requirements.	

The **ARC** buttons enable or disable the ARC decoding to the analogue audio outputs.

The **Stream** buttons enable or disable the output signal for the respective output.

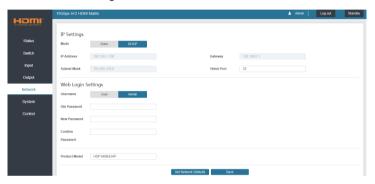
The **HDCP** buttons enable or disable HDCP at the respective HDMI output.

■ 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 s on this page.

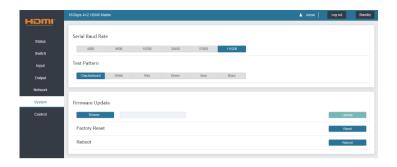
Note that any changes to this page will require the new details into the web browser and/or the log in screen.



■ System page

The system page allows setting of the control RS232 port baud rate and changing the test pattern output.

This page is also used to install new firmware updates, restore the factory default settings and reboot the Matrix.



■ Control page

The Control page is used to set the RS232 or IR display device power on/off commands for the Automatic Power Switching mode. When this mode is enabled, the display power off and power on commands will be sent from RS232-A/RS232-B or IR-A/IR-B outputs after the defined Power Off Timeout and Power On Timeout values respectively.

The Control page has three modes: **RS232**, **CEC** or **IR**. Power On and Power Off commands can only be entered for the **RS232** and **IR** modes. The **CEC** mode power on and power off commands are provided by default and cannot be changed. Only use **CEC** mode with displays that support CEC commands.



RS232 Setting 1 and RS232 Setting 2

Select the desired tab and configure the RS232 port settings to match the display device requirements. Select either ASCII or HEX for the command format and enter the Power Off and Power On commands with the appropriate command termination mode: None, CR, LR or CRLF.

If the display device is connected to the respective RS232-A or RS232-B port, use the Test buttons to confirm that the command is correct. Once the command is valid, use the Save button to store those commands in the Matrix.

Note that ASCII commands can use any ASCII character, but HEX command must use hexadecimal notation using hexadecimal value pairs separated by spaces.

IR Setting 1 and IR Setting 2



This page requires that the IR commands are available in plain text files using the CCF IR code format.

- 1. Select the desired IR Control Setting tab.
- Click the Load button to load the respective IR command. If the display device only support a power toggle IR command, then use the same file for both the Power On and Power Off modes.
- 3. Use the Test button to confirm that the command functions.
- 4. Click the Save button to save both IR commands to the Matrix.

8. ASCII control command

The Matrix also supports ASCII control. You need to a RS-232 phoenix connector male head to RS-232 female head with DB9 serial cable and a RS-232 male head with DB9 to USB male head serial cable. The phoenix connector male head is connected the RS-232 port of the Matrix, and the USB head of the serial cable is connected a PC. Open any of a Serial Command tool on PC such as "Docklight" to send command to control the Matrix. Please see the following connection diagram.

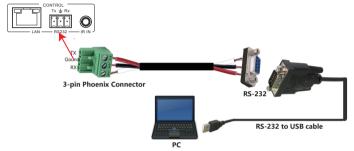


Figure 1: 3-pin phoenix connector to USB

Important:

- All messages sent to the Matrix must be terminated with an exclamation mark (!). Any carriage return that is present after the end of the command will be ignored.
- 2. All spaces shown in the commands are required.
- 3. All response messages are terminated by a CR/LF sequence.
- 4. When all four inputs are requested by the same command, the response will report each input on a separate line.
- When both outputs are requested by the same command, the response will report each output on a separate line.

The ASCII list about the product is shown as below.

ASCII Command

Serial port protocal: Baud rate: 115200 (default), Data bits: 8bit, Stop bits:1, Check bit: 0

TCP/IP protocol port: 8000. The x, y, z, XXX are parameter.

TCP/IP protocol port: 8000. The x, y, z, XXX are parameter.				
RS-232 Command	Function description	Feedback		
System Setting	System Setting			
r type!	Get device model	HDP-MXB42AP		
r status!	Get device current status	Get the unit all status: power, in/out connection, video/audio crosspoint, edid scaler,hdcp, network status		
r fw version!	Get Firmware version	MCU BOOT: V1.00.01 MCU APP : V1.10.05		
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=0~2(0=all)	HDMI OUT1: connect		
s reset!	Reset to factory defaults	Reset to factory defaults System Initializing Initialization Finished!		
s power z!	power on/off the device,z=0~1(z=0 power off, z=1 power on)	Power on System Initializing Initialization Finished! power off		
r power!	get current power state	power on /power off		
s reboot!	reboot the device	Reboot System Initializing Initialization Finished!		
Output Setting				
s in x av out y!	Set input x to output y, x=1~4, y=0~2(0=all)	input 1 -> output 2		
r av out y!	Get output y signal status y=0~2(0=all)	input 1 -> output 1 input 2 -> output 2		
s hdmi y stream z !	Set hdmi output y stream on/off, y=0~2(0=all) z=0~1(0:disable,1:enable)	Enable HDMI out1 stream Disable HDMI out1 stream		
r hdmi y stream!	Get hdmi output y stream status, y=0~2(0=all)	Enable HDMI out1 stream		
s hdmi y scaler z!	Set hdmi output y port output mode, y=0~2(0=all), z=1~4(1=off,2=4k->1080p,3=hdbt mode, 4=Auto)	hdmi output 1 set to bypass mode		
r hdmi y scaler!	Get hdmi output y port output mode y=0~2(0=all)	hdmi output 1 set to bypass mode		
s hdmi y hdcp z!	set hdmi output y port hdcp status y=0~2(0=all) z=0~1(1=on,0=off)	hdmi out 1 hdcp on		

r hdmi y hdcp!	Get HDCP status of HDMI out y, y=0~2(0=all)	hdmi out 1 hdcp active
s hdmi y pattern z!	Set hdmi output y test pattern on/off.y=0~2(0=all, 1=OUT 1,2=OUT 2) z=0~1 (0=off,1=on)	hdmi output 1 test pattern on
r hdmi y pattern!	Get hdmi output y test pattern on/off status. y=0~2 (0=all 1=OUT 1, 2=OUT 2)	hdmi output 1 test pattern on
s pattern mode z!	Set test patterns type. z=1~6 (1- Checkerboard 2-White 3-Red 4-Green 5-Blue 6-Black)	set pattern White!
r pattern mode!	Get test pattern mode.	set pattern White!
EDID Setting		
s edid in x from z!	Set input x EDID from default EDID z, x=0-4(0=all),z=1-25 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,Stereo Audio 2.0 11=4K2K30_444,Dolby/DTS 5.1 12=4K2K30_444,HD Audio 7.1 13=4K2K60_420,Dolby/DTS 5.1 15=4K2K60_420,Dolby/DTS 5.1 15=4K2K60_444,Stereo Audio 2.0 17=4K2K60_444,Stereo Audio 2.0 17=4K2K60_444,Dolby/DTS 5.1 16=4K2K60_444,Dolby/DTS 5.1 18=4K2K60_444,Dolby/DTS 5.1 19=4K2K60_444,Dolby/DTS 5.1 19=4K2K60_444,Dolby/DTS 5.1 19=4K2K60_444,Dolby/DTS 5.1 19=4K2K60_444,Dolby/DTS 5.1 19=4K2K60_444,Dolby/DTS 5.1 19=4K2K60_444,Dolby/DTS 5.1 HDR 21=4K2K60_444,HD Audio 7.1 HDR 20=4K2K60_444,HD Audio 7.1 HDR 21=4K2K60_444,HD Audio 7.1 HDR 21=4K2K60_444,HD Audio 7.1 HDR	IN1 EDID:1080p,Stereo Audio 2.0
r edid in x!	Get EDID status of the input x, x=0~4(0=all input)	IN1 EDID: 4K2K60_444, Stereo Audio 2.0 IN2 EDID: 4K2K60_444, Stereo Audio 2.0 IN3 EDID: 4K2K60_444, Stereo Audio 2.0 IN4 EDID: 4K2K60_444, Stereo Audio 2.0

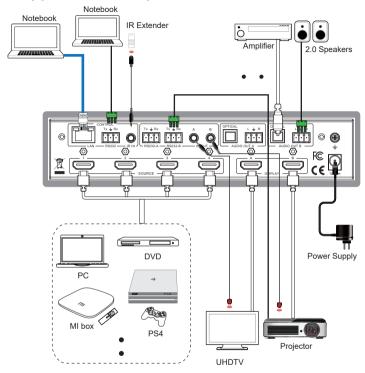
r edid data hdmi y!	Get the EDID data of the hdmi output y port,y=1~2	EDID: 00 FF
Audio Setup		
s hdmi y arc z!	Turn on/off arc of HDMI output y , $y=0\sim2(0=all)$ $z=0\sim1(z=0,off,z=1 on)$	hdmi output 1 arc on hdmi output 1 arc off
r hdmi y arc!	Get the arc state of HDMI output y, y=0~2(0=all)	hdmi out1 arc on
s spdif x mute y!	Enable/disable the audio outputs . x=1~2(1=spdif 1 ,2=spdif 2) ,y=0~1(0=unmute , 1=mute)	spdif 1 mute
r spdif x mute!	Read the audio output state. x=1~2(1=spdif 1, 2=spdif 2)	spdif 1 mute
Network setting		
r ipconfig!	Get the Current IP Configauration	IP Mode: Static IP: 192.168.1.72 Subnet Mask: 255.255.255.0 Gateway: 192.168.1.1 TCP/IP port: 23 Mac address: 00:1C:91:03:80:01
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. xxx.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. xxx.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: 192.168.1.72 Subnet Mask: 255.255.255.0 Gateway: 192.168.1.1 Mac address: 00:1C:91:03:80:01	
Control setting			
s autopower z!	Set display auto power on/off control z=0~1(z=0 disable, z=1 enable)	Display autopower control enable	
r autopower!	Get display auto power state	Display autopower control enable	
s autopower mode z!	Set display auto power control mode z=1~3(z=1 RS-232, z=2 CEC, z=3 IR)	Display autopower control by RS-232	
r autopower mode!	Get display auto power mode	Display autopower control by RS-232	
s autopower on time y!	Set auto power on timeout y=0~600 seconds	Display autopower on timeout is 100 seconds	
r autopower on time!	Get auto power on timeout	Display autopower on timeout is 100 seconds	
s autopower off time y!	Set auto power off timeout y=0~600 seconds	Display autopower off timeout is 100 seconds	
r autopower off time!	Get auto power off timeout	Display autopower off timeout is 100 seconds	

(SOURCE+ DESTINATION)	CEC command sending. (PORT) is 1 byte; [PORT] =01~02 is hdmi output 1~2; (SOURCE+DESTINATION) is 1 byte,4~7bit is [SOURCE],0~3bit is [DESTINATION] [SOURCE] is command Initiator LogicAddress, [DESTINATION] is command Follower LogicAddress. [DPCODE] is Operating code for CEC, [ARGS] is The parameters for the CEC opcode, Some of the CEC commands have parameters and some have no parameters, so [ARGS] is Optional	PORT:HAMI OUT 1 SOURCE:05 DESTINATION:0F OPCODE:82 ARGS:10 00
s rs232 (port) (format)(baudrate) (databit)(parity) (stopbit)(cmdterm- inating)[cmddata]!		Port: RS232-A Format: ASCII Baudrate: 115200 Databit: 8bit Parity: none Stopbit: 1bit Terminator: none Data:r ipconfig!

Note that you can send 'RS232 command' to control the Matrix via Serial Command tool. The 'Function description' explains function about the command. The "Feedback" displays whether the command sends success or not and feedback the information you need to.

9. Application Example



Thank you for your purchase.

We appreciate your business. Please contact us with your question and comments.

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