

4X2 HDMI 2.0 Quad-View Processor

Operation Manual

500446



SAFETY PRECAUTIONS

To insure the best performance from the product, please read all instructions carefully before using the device. Save this manual for future reference.

- Follow basic safety precautions to reduce the risk of fire, electrical shock and injury.
- Do not dismantle the housing or modify the module. It may result in electrical shock or burns.
- Do not open or remove the housing of the device as you may be exposed to dangerous voltage or other hazards.
- To prevent fire or shock hazard, do not expose the unit to rain, moisture and do not install this product near water. Keep the product away from liquids.
- Spillage into the housing may result in fire, electrical shock, or equipment damage. If an object or liquid falls or spills on to the housing, unplug the module immediately.
- Do not use liquid or aerosol cleaners to clean this unit. Always unplug the power to the device before cleaning.
- Using supplies or parts not meeting the products' specifications may cause damage, deterioration or malfunction.
- Refer all servicing to qualified service personnel.
- Install the device in a place with adequate ventilation to avoid damage caused by overheat.
- Unplug the power when left unused for a long period of time.
- Information on disposal of devices: do not burn or mix with general household waste, please treat them as normal electrical waste.

NOTICE: Please read this manual carefully before using this product.

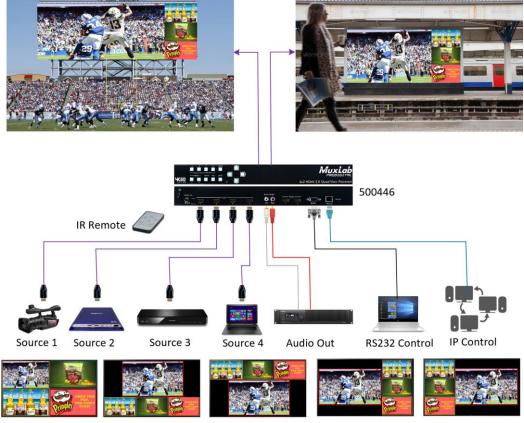
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1. Introduction

The 4x2 HDMI 2.0 Quad-View Processor supporting 4K/60 (4:4:4) resolution provides the most flexible and cost effective solution in the market to route ultra-high definition video sources from any of the four UHD HDMI sources to two separate displays at the same time. This solution is also well suited for use in digital signage, conference room presentation systems or other similar settings or applications.

With up to 4K/60 (4:4:4) resolution at each output, users can display the mixed video with improved presentation quality. This unit can be controlled thru an RS232 serial port and Ethernet port to provide flexible control methods to fit numerous applications. The unit may also be controlled via IR remote, front panel buttons, WEB GUI or OSD (On Screen Display).



- 5 Default Presets

- 8 custom Presets may be Created, Saved en Loaded

2. Features

- 4 HDMI inputs and 2 HDMI outputs
- Input resolution supports from 640x480 to 4096x2160@60Hz (4:4:4 8bits), interlaced or progressive
- Output resolution supports up to 4096x2160@60Hz (4:4:4 8bits)
- Adjustable size & position through software and Cloud
- Supports PIP, PBP, POP, full screen & quad-view display
- HDCP 1.4/2.2 compliant
- Firmware upgradable to support new features and product enhancements
- Supports titles, borders and colored backgrounds
- Supports Background picture & logo update
- Resize, position, zoom & pan and blend output video
- Supports seamless, fade-in-&-out, wipe and dissolve switching in full screen mode
- Perfect as a video converter and a live video switcher
- Pure unaltered uncompressed 7.1ch digital HDMI
- Software control through RS-232 and Ethernet
- Supports IR remote, front panel buttons, WEB GUI and OSD control
- Supports Cloud Control (Cloud support is through encrypted communication for security/privacy protection)

3. Package Contents

- One (1) 4x2 HDMI 2.0 Quad-View Processor
- One (1) 12VDC/3.33A power adapter
- One (1)Installation Guide
- One (1) IR Remote control
- One (1) IR Sensor
- One (1) Quick Reference sheet

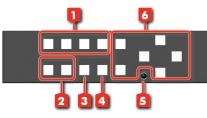
Notes: Confirm that the product and accessories are all included. If not, please contact the supplier from which you purchased the unit.

4. Specifications

Model Name		500446		
Technical				
Role of usage		Multi-viewer / video processor		
Backgrou	und picture update	Yes		
HDC	CP compliance	1.4 / 2.2		
HDN	Al compliance	HDMI 2.0a		
Vide	eo bandwidth	HDMI [594MHz [18Gbps]		
Outpu	it Video Support	Up to 4K@60Hz (4:4:4 8bits)		
Input	: Video Support	Up to 4K@60Hz (4:4:4 8bits)		
Video	Format Support	HDMI 2.0		
Αι	udio support	Bypass (signal pass-thru)		
	Control	RS-232/ Ethernet/ IR/ Front panel buttons/ WEB GUI/ OSD/ Cloud		
Embec	lded video mixer	Yes		
Inpu	ıt TMDS signal	1.2 Volts [peak to peak]		
ES	D protection	Human body model — ±15kV [air-gap discharge] & ±8kV [contact discharge]		
	Input	Four HDMI, one RS-232, one RJ-45 (Ethernet) & one 3.5mm		
	Output	Two HDMI & Two RCA Jack		
HDMI connector		Type A [19-pin female]		
RS-2	232 connector	DB-9 [9-pin D-sub female]		
RJ-	45 connector	WE/SS 8P8C		
N	Mechanical			
	Housing	Metal enclosure		
	Model	390 x 248 x 44mm [1'3" x 9.8" x 1.7"]		
Dimensions (L x W x H)	Package	526 x 318 x 156mm [1'7" x 12.5" x 6.1"]		
()	Carton	543 x 335 x 344mm [1'8" x 13.2" x 1'1"]		
Model		2.2 kg [5 lbs]		
Weight Package		3.3 kg [7.3 lbs]		
Power supply		12VDC 3.33A		
Power Consumption		22 Watts [max]		
Operation temperature		0~40°C [32~104°F]		
Storage temperature		-20~60°C [-4~140°F]		
Rela	ative humidity	20~90% RH [no condensation]		

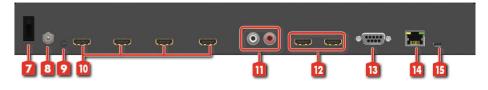
5. Panels Description

5.1 Front Panel



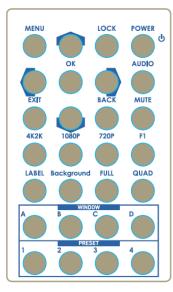
No.	Name	Description
1	Window	Select the Window source A, B, C & D.
	Source	
	Selection	
2	Presets	Recall preset 1 or preset 2.
3	Quad	Fast Selection to view Quad-View Mode
4	Full	Switch output Window to full screen mode
5	IR	IR Sensor for receiving the IR commands from
		the handheld IR Remote Control.
6	OSD	Buttons to navigate and manage the internal
		menus of the product.

5.2 Rear Panel



No.	Name	Description
7	Power	Power On/Off Switch.
	Switch	
8	Power	Use included DC adaptor to power the product.
	Jack	
9	IR Ext.	This port is for a local IR sensor, used to extend
		the IR signal. Connect to an IR Sensor.
10	HDMI	Connect HDMI input sources 1 to 4.
	Input	
11	Stereo	Stereo Audio Output extraction (L/R).
	Output	
12	HDMI	Output for HDMI displays 1 and 2.
	Output	
13	RS232	RS232 Serial Port for remote control.
14	Ethernet	Ethernet LAN Port, for remote control.
15	Service	For Firmware Upgrades.

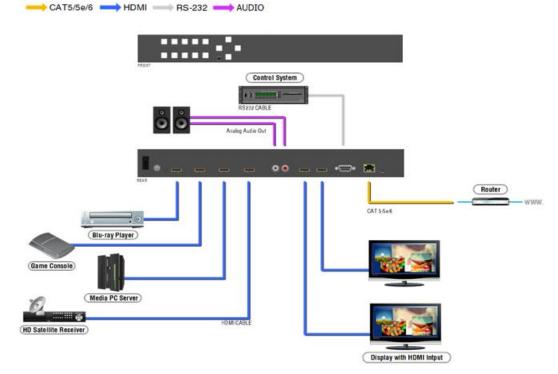
6. Remote Control



Button	Function		
POWER	Power on/off the device		
LOCK	Lock/unlock the device		
	Arrow button (up)		
MENU	OSD (On Screen Display) menu		
AUDIO	Select audio sources		
►	Arrow button (right)		
ОК	Select the setting (similar to Enter)		
◀	Arrow button (left)		
MUTE	Turn off the audio		
ВАСК	Back to previous page of OSD menu		
▼	Arrow button (down)		
EXIT	Exit from the menus		
F1	Reserved		
720P	Switch output resolution to 720p @ 60Hz		
1080P	Switch output resolution to 1080p @ 60Hz		
4K2K	Switch output resolution to 4K @ 60Hz		
QUAD	Fast switch to quad-view mode		
FULL	Fast switch to full screen mode		
Background	Set up the background picture of a window		
LABEL	Window label ON/OFF		
А	Select source A to be the input source		
В	Select source B to be the input source		
С	Select source C to be the input source		
D	Select source D to be the input source		
P1	User preset 1		
P2	User preset 2		
Р3	User preset 3		
P4	User preset 4		

4x2 HDMI 2.0 Quad-View Processor

7. Operate and Connect



1. Software Control through RS-232 / Ethernet port System Requirement

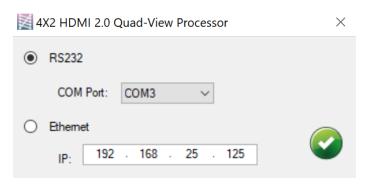
- (1) OS information: MS Win XP/7/8/10
- (2) Baud rates: 115200
- (3) Free space taken on hard disk (software size): 10 MB
- (4) Minimum RAM requirement: 256MB

2. Control interface

When clicking on the executable file, the following dialog will pop-up (under Microsoft Windows, please run as administrator).

RS-232 serial Mode: Use RS-232 to connect the port on device and computer. Select correct COM port and click the OK button.

Ethernet Mode: Enter the IP address of the device and click the OK button.



After the software control method setting is selected, the system control interface will automatically start up.

Control Interface

2 3 4 5 6 7 Image: Corp EDD Net Image: Corp EDD Image: Corp EDD <th>4X2 HDMI 2.0 Quad-View Processor Ver 1.13</th> <th></th> <th>8 9 × (i) INFO () REFRESH</th>	4X2 HDMI 2.0 Quad-View Processor Ver 1.13		8 9 × (i) INFO () REFRESH
A Window A: Source 3 → Window B: Source 3 → Window B: Source 3 → Window D: Source 4 → Output Selection Output Selection Display Ratio: 14% Leyer Control Image: 1 Source 1 → Display Ratio: 14% Leyer Control Image: 1 Source 1 → Horizontoal 0 to 1200 Image: 1 Image: 1 Image: 1 Horizontoal 0 to 1000 Image: 1 Image: 1 Image: 1 Image: 1 Image: 1 Horizontoal 0 to 1000 Image: 1			
A Window B: Source 2 → Window B: Source 3 → Window D: Source 4 → Outch Selection Image 1 Image 1 14% Display Ratio: 14% Image 1 14% <td< td=""><td></td><td></td><td>Source Selection</td></td<>			Source Selection
Window C: Source 3 Window C: Source 4 Window D: Source 4 Out Source 4 O			Window A: Source 1 v
Window D: Source 4 Ouick Selection Image: Selection	^		Window B: Source 2 V
Quick Selection Image: Selection I			Window C: Source 3 \checkmark
Image: Second secon			Window D: Source 4 \sim
Display Ratio: 14% Display Ratio: 14% Coordination in input 14% Horizontoal 0 to 1920 Vertical 0 to 1920 Save Layout Save Layout 1			Quick Selection
Display Ratio: 14% Display Ratio: 14% Coordination in input Horizontal 0 to 1920 Vertical 0 to 1920 Coordination in input Bottom Display Ratio: 14% Layer Control Top Bottom Display Ratio: 14% Layer Control Top Bottom Display Ratio: Save layout Save layout 1			
Display Ratio: 14% Display Ratio: 14% Coordination in input Horizontoal 0 to 1920 Vertical 0 to 1920 Coordination in input Bottom Display Ratio: Save Layout Save Layout 1			Full Screen
Display Ratio: 14% Display Ratio: 14% Cordination in input Image: Cordination in input Horizontoal 10 0 1020 Vertical 10 10 1000 Save layout Save layout 1			ABCD
Display Ratio: 14% Layer Control Top R Coordination in input Horizontoal 0 to 1920 Vertical 0 to 1080 $\stackrel{\circ}{\propto}$ Horizontoal 0 to 2000 $\stackrel{\circ}{\sim}$ Horizontoal 0 to 2000 $\stackrel{\circ}{\propto}$ Horizontoal 0 to 2000 $\stackrel{\circ}{\sim}$ Horizontoal 0 to 2000 $\stackrel{\circ}{\sim}$ Horizontoal 0 to 2000 $\stackrel{\circ}{\sim}$			Switch Mode
Display Ratio: 14% Leyer Control Top Coordination in input Image: Control Horizontoal to 10 to 1920 Save Layout Vertical to 1080 Save Layout Save Layout 1 Save Layout 1			Seamless 🗸
Image: Coordination in input Top Image: Coordination in input Horizontoal 0 to 1920 Vertical 0 to 1920 Vertical 0 to 1920 Save Layout Save Layout Save Layout Save Layout 1 Image: Save Layout 1	Display Ratio:	14% Lawer Control	Wipe Mode
Image: Coordination in input Image: Coordination in input Horizontoal 0 to 1920 Vertical 0 to 1080 Vertical 0 to 1080 Save Layout Save Layout 1 Image: Custom Layout 1			Left to Right 🗸 🗸
Vertical 0 to 1080 or Save Layout Save layout 1 v Vertical Save Save layout 1 v Vertical Save Save Save Save Save Save Save Save	😑 🗉 🖸		Custom Layout
Vertical 0 to 1080 or Save Layout Save layout 1 v Vertical Save Save layout 1 v Vertical Save Save Save Save Save Save Save Save	Coordination in input		
Vertical 0 to 1080 or Save Layout Save layout 1 v Vertical Save Save layout 1 v Vertical Save Save Save Save Save Save Save Save	Horizontoal 0 to 1920	Bottom	Output Selection
Save layout to Custom Layout 1 🗸 🤡	Vertical 0 to 1080		Output Resolution: 3840 x 2160 @60Hz 🗸 🗸
UK			
			ŬK.

Connection Status:

Shows the connect information and status. If the User uses RS-232 serial Mode to control the device, the following graph is shown:

Else if the User uses Ethernet Mode to control the device, the following graph is shown:

In addition, if the User would like to change the control method, the User can click on the

or 📠 button to change modes.

Output Settings

2

In this section, the User can configure the inputs, the source of window A~D, output resolution, layout

setting (PAP or full screen) and switch mode.

(2.1) Source Selection

For each display window, you can assign arbitrary video sources here.

Source Sel	ection	
Window A:	Source 1	•
Window B:	Source 2	•
Window C:	Source 3	•
Window D:	Source 4	•

(2.2) Quick Selection

In the control software, the system provides 5 default modes, 8 custom modes and 4 switching effects

(Seamless, Fade in/out, Dissolve, Wipe) for the User to select from.

Quick Selection
PAP 1 PAP 2 PAP 3 PAP 4 PAP 5
Full Screen
ABCD
Switch Mode
Seamless 👻
Wipe Mode
Left to Right 👻
Custom Layout

(2.3) Output Resolution

Set the output resolution.

Output Selection			
Output Resolution	: 3840 x 2160 @30Hz 🗸 🗸		
Save Layout	3840 x 2160 @60Hz 3840 x 2160 @59.94Hz		
Save layout to Cu	3840 x 2160 @50Hz 3840 x 2160 @30Hz		
	1920 x 1080 @60Hz 1920 x 1080 @59.94Hz		
	1920 x 1080 @50Hz 1920 x 1080 @30Hz		
	1280 x 720 @60Hz 1280 x 720 @59.94Hz		
	1280 x 720 @50Hz 720 x 576 @50Hz		
	720 x 480 @60Hz		

(2.4) Save Layout

The system provides 8 custom layouts, for Users to save frequently used scenarios.

Save Layout			
Save layout to	Custom Layout 1 Custom Layout 2 Custom Layout 3 Custom Layout 3 Custom Layout 4 Custom Layout 5 Custom Layout 6 Custom Layout 7 Custom Layout 8	T	ОК

(2.5) Display Panel

In the left portion of the control interface, the User can customize the display. The different colored frames represent the different input windows. The coordinate information shows the position of the input source screen. In addition, the User is provided with display ratios, used to set the display panel sizes. The User can change the window layer level/order by dragging the window icons in the Layer Control section.

A					
Display Ratio: Coordination		D		14%	Layer Control Top
Horizontoal Vertical	0	to to	1920 1080	С	Bottom

Advanced Setting

4X2 HDMI 2.0 Quad-View Processor Ver 1.13	× info O REFRESH CONNECTED
Đ 🔅 Crop EDID Net	
Label Text	Background Screen
Windows Input Source	Background: Disable V
Image: Second system Image: Second system Image: Second system Image: Second system Image: Second system Image: Second sy	Save Background Screen
Sound	
Sound from: Source 4	Background 1 Vidth: 0 Height: 0
Window Label	Status : HDR Control
	HUK Control
☑ Window label ☑ Border ☑ Source label □ Border Tally	O HDR ON HDR OFF
	Note: Turn HDR Off when using non-HDR Sources

(3.1) Label Text

In this section, Users can input the text to be shown along with the video.

Windows	Input Source	
🔲 Window A	1 Input 1	
Window B	2 Input 2	
Window C	3 Input 3	
D Window D	A Input 4	

(3.2) Sound

In This section, Users can select which input source controls the R / L audio output channels. Or select the "Follow Full-Screen" option so that the source associated with Full-Screen automatically controls the audio output channels.

Sound			
Sound from:	Source 4	~	OK
Audio Mode:	O Fixed	Follow Full-Screen	

(3.3) Window Label

The User can determine if the window's label/border is turned on or off.

Window Label		
📃 🗉 🖸		Selected Window: Window A
Vindow label	Border	
Source label	Border	Tally

(3.4) Background

To setup the background image of a window. There are 4 available memory banks for the User to upload background images. The User can click on the **File** button to load the picture he wants to use and click on the **Start** button to write this picture into the device's memory.

ackground:	Disabl	le	•	
rn OSD Splas	h			
			File	Start
(<u></u>	
Background	11	•	Width:	0
			Height:	0

Note: The limitations of the Background are:

- The color must not exceed 256.
- The image width must be a multiple of 128.
- The background cannot be saved in custom patterns.

(3.5) HDR Control

Users can select HDR mode in the output video.

HDR Control		
	HDR OFF	
Note: Turn HDR Off wh	nen using non-HDR Sources	

4X2 HDMI 2.0	Quad-Viev	w Process	or Ver	.13			- 0
							i INFO 🗘 REI
Ð 🗱	Crop	EDID	Net	ĒW			
							Visible Window Control
A							Output 1
							Output 2
							Window A
							Window B
				_			Window C
							Window D
Crop Ar	ea				Crop Area	a Control	Source 1 v
					Enable		Width Height 3840 2160
					Horizontoal		
					Vertical Star		
					Width	1920	
					Height	1080	
					2		

(4.1) Visible Windows Control

In this section, the User can select which windows will be displayed in each of the two outputs.

	 Visible Window Control
A	Output 1
	Output 2
	☑ Window A
	☑ Window B
•	☑ Window C
	☑ Window D

(4.2) Crop Area

Crop Area	Crop Area Control	Source 1 \sim
	🖪 🗉 🖸	Width Height
	Enable Crop	1920 1080
	Horizontoal Start 1405	
	Vertical Start 210	
	Width 270	
	Height 245	
	Ск Ск	

1. Select window and enable Crop



2. Set the position and size of the Crop area. (You can enter the corresponding values or use the mouse)

Horizontoal Start	890
Vertical Start	550
Width	270
Height	245

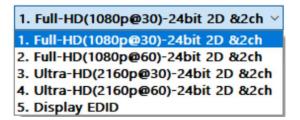
2		
-≺	Click	
э.	CIICK	

😪 to view the selected area.

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To: Input 1	To: Input 1	Te: Input 1	To: Input 1	To: Input 1	To: Input 1	To: Input 1			(1080p@30))-24bit 2D &2cl	- ×		
							To:	Input 1			✓ Learn		

(5.1) Learn EDID

1. Select Default EDID



2. Select Input



6 Net

(6.1) IP Config

The User can setup the Ethernet IP information for the unit as shown below. Once the information has

been entered, click on Apply to save the settings.

The unit default IP Address is: 192.168.168.40

OHCP	○ Static	
IP:	192 . 168 . 25 . 125	
Mask :	255 . 255 . 255 . 0	
Gateway :	192 . 168 . 25 . 1	
DNS1 :	8.8.8.8	
DNS2 :	8.8.8.8	
	App	lu.

(6.2) MAC Address

This section shows the MAC address of the unit.

MAC ad	dress		
MAC:	54-10	-EC-95-61-45	
(6.3) Cloud S	etting		
Cloud S	Setting		
Register	mode:		Get Code
Cloud m	ode:		Set

Register mode

To get an "association code". The device can use this code to pair with a cloud server.

Cloud mode

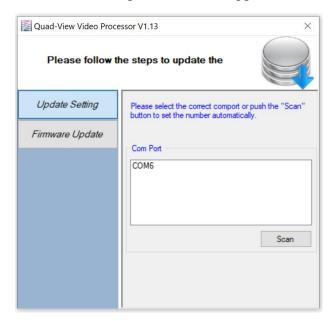
To reset the cloud after a successful pairing

Note: See page 22 on how to configure cloud control through the "Eagleyes Cloud" service.

FW	
AX2 HDMI 2.0 Quad-View Processor Ver 1.13	- C X
EDID Net	
FIRMWARE UPDATE	
CU FACTORY RESET	

(7.1) Firmware Update

- 1. Click the **I** icon button to do a firmware update.
- 2. The "Firmware update" window appears as shown below.



3. Please select the correct COM port or click the "Scan" button to connect the device.

4. Upload the file and click the "update" button to perform a firmware update.



(7.2) Factory Reset

- 1. Click the 🔱 FACTORY RESET icon button to do a default Factory Reset.
- 2. The Factory Reset process will take about 25 seconds. Please allow the process to fully complete.

4X2 HDMI 2.0 Quad-View Processor Ver 1.13	×
	HIFO O REFRESH CONNECTED
EDID Net	
FIRMWARE UPDATE	
GACTORY RESET	
Factory Reset All Configuration data an	× d settings will be lost. Press OK to Continue.
	OK Cancel

8 INFO

Get the unit Software and Firmware versions.

Software/Firmware Version		×
Version		
Software Version:	Ver 1.13	
Firmware Correct Version -	Ver 1.35	
Status Firmware Device Version	Ver 1.36	

Note: The Software and Firmware version shown above are only examples and may change as needed.

9 Refresh

This function refreshes the information presented, including updated information of the device and software states.

8. Cloud Control

Control via the cloud is available via the "Eagleyes Cloud" service.

Create an Eagleyes Cloud Account

For first time users of the Eagleyes service, please create a new account as follows.

1. Access Eagleyes (<u>http://www.eagleyes.io</u>) and click "Create new account".

Account	
Enter your account	
Password	
Enter your password	
Login	
Create new account	Forgot password

2. The Registration page will pop up. Fill in your email and password information and click on "Apply" to create your private account.

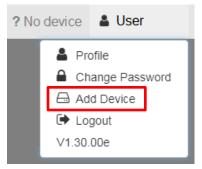
Creat new account	×
Enter an available email as account	
example@gmail	
Please enter your password	
1234XXX	
Please enter your password again	
please enter your password again	
	Cancel Apply

Add a Device to the Eagleyes Cloud Service

(1) First, please make sure the device is connected to the Internet. Then run the software with the device to get the register code (Note that the status of software is set as "Connected"). Get the code on the bottom right.

IDMI 2.0 Quad-View	Processor Ver 1.13		
			i INFO 🗘 RE
Crop	EDID Net		
	m		
IP Config			
DHCP	O Static	MAC address	
IP :	192 168 25 125	MAC: 54-10-EC-95-61-45	
Mask :	255 255 255 0		
Gateway :	192 168 25 1		
DNS1 :	8.8.8.8	Cloud Setting	
DNS2 :	8 . 8 . 8 . 8	Register mode: 144447	Get Code
		Cloud mode:	Set
	Appl	Cloud mode:	Jac

(2) Access the Eagleyes Cloud Service (<u>http://www.eagleyes.io</u>), and then log into your account on the right top corner. Click **Add device** to add the device which you just received an associated code.



(3) Enter the Installer Email for future online support, and the Association Code to pair with your device and press "Apply".

Add new device	×
Installer Email	
installer@gmail.com	
Association Code	
	Close Apply

(4) After adding the device, the device under control in your account will show on the upper right corner.

You can click on the buttons below to switch between devices for control purposes.



9. WEB GUI Control

Installation Guide

<u>Login</u>

The default IP address is: 192.168.168.40

The User can choose the Operator or Admin account to login. Admin provides more control options.

The password of the Operator is: **operator** The password of the Admin is: **admin**

4 K UHD MULTIVIEWER VIEWING MULTIPLE HORIZONS
Hi There ~ Login to system As
Password
LOGIN

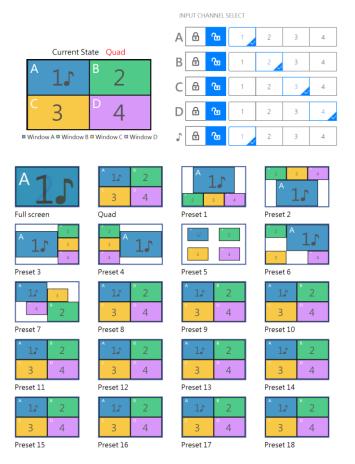
WEB GUI Control Interface

	4x2 Multiview Seamless Switcher			
1 Main •			INPUT CHANNEL SELECT	
Routing			A 🔂 🛅 👔	2 3 4
I/O Status	Current S	State Quad	B 🔂 🐿 👎	2 3 4
2 Setup >		2	C 🔂 💁 1	2 3 4
3 – Names	^c 3	₽ 4	D 🔂 🐿 🛛	2 3 4
4 EDID →	■ Window A ■ Window	/ B ■ Window C ■ Window D	J 🔂 🔂 🔳	2 3 4
5 – Network				
6 System	^ 1 J	15 2 3 4	^ 1,, 2 3 4	
7 Unlock Lock	Full screen	Quad	Preset 1	Preset 2
Power Off Unit powered on.	^ 1 <i>s</i>	2 3 4 1	3	1 <i>5</i>
	Preset 3	Preset 4	Preset 5	Preset 6
		1 2 3 4	15 2 3 4	15 2 3 4
	Preset 7	Preset 8	Preset 9	Preset 10
	1 <i>s</i> 2 3 4	11 2 3 4	11 2 3 4	15 2 3 4
	Preset 11	Preset 12	Preset 13	Preset 14
	1 1 2 3 4 Preset 15	1 2 3 4 Preset 16	1 2 3 4 Preset 17	1 1 2 3 4 Preset 18

¹ Main

(1.1) Routing:

We provide full screen, quad, and 18 preset modes for the user to select. Then you can set different channels (1-4) for windows (A-D) and select the sound output source. In addition, you can turn on or turn off the sound and screen of each window independently.



(1.2) I/O Status:

You can check input and output status here.

Output

Feature	Output
RSENSE	low
HPD	low
HDCP	N

Input

Feature	Input 1	Input 2	Input 3	Input 4
Color Depth	n/a	n/a	n/a	n/a
Color Space	n/a	n/a	n/a	n/a
HDCP	N	N	N	N
Active Signal	N	N	N	N
Horizontal Resolution	0	0	0	0
Vertical Resolution	0	0	0	0
Progressive / Interlaced	n/a	n/a	n/a	n/a
Refresh Rate	n/a	n/a	n/a	n/a
Video Mode	n/a	n/a	n/a	n/a

² Setup:

(2.1) Video:

Output Resolution: Select the output resolution.

Select Window: Select the window you want to set.

Picture Settings: Set the picture details for the selected window, including "Brightness", "Contrast",

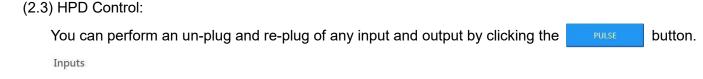
"Saturation", and "Hue". In addition, you can determine if the window's label/border is turned on or off. Additional settings: You can also turn on or off the Source Label, the Window Label, the Border and Border Tally.

Select Wind					
Window	А	В	С	D	
Picture Setti	ngs		50		
Brightness			50		
Contrast			50		_
Saturation			50		_
Hue			50		_
Source Label	VES	Window Lab	el 💽 y	ES	
Border	VES	Border Tally	O Y	ES	

(2.2) Windows Setup:

First, choose a preset mode to set, and then you can set parameters individually for each window, including "X Position", "Y Position", "Width", "Height", etc. You can also directly select the area to move the position and change the size. If you choose live mode, you can immediately see the changes on the screen after making changes. You can also set different channels (1-4) for windows (A-D) and select the sound output source.

Select Preset	Live 🔻	Route Only Preset YES	NO		Rout						
A	Quad Preset 1 Preset 2	B 2	Select \	Nindow B C D	Wind	iow 1	2	3	4	Mask	X
_		2	X Position	0	В	1	2	3	4	Mask	Х
C	Preset 6 Preset 7 Preset 8 Preset 9	D	Y Position	0	С	1	2	3	4	Mask	Х
	Preset 10 Preset 11 Preset 12	4	Width	1920	D	1	2	3	4	Mask	Х
■ Window A ■	Preset 13 do Preset 14 Preset 15 Preset 16	ow C ■ Window D RESET ALL	Height	1080	ſ	1	2	3	4	Mask	Х
	Preset 17 💌		Priority	1 •				Save	e To Prese	et 1 🔻	SAVE



Input 1	PULSE
Input 2	PULSE
Input 3	PULSE
Input 4	PULSE
	PULSE ALL
Output	PULSE

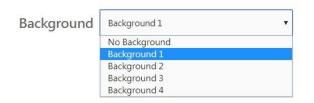
(2.4) HDCP:

You can set HDCP mode for each input, including "Reject", "Accept 1.4 only", and "Accept 1.4 & 2.2". You can also set the output mode, including "Follow Input", "Always Encrypt 1.4", and "Always Encrypt 2.2."

HDCF FG	ss Through		
Inputs			
Input 1	Reject	Accept 1.4 only	Accept 1.4 & 2.2
Input 2	Reject	Accept 1.4 only	Accept 1.4 & 2.2
Input 3	Reject	Accept 1.4 only	Accept 1.4 & 2.2
Input 4	Reject	Accept 1.4 only	Accept 1.4 & 2.2
Outputs			
HDMI	Follow Inpu	It Always Encry	pt 1.4 Always Encrypt 2.2

(2.5) Background:

You can set the background of the window.



³ Names:

You can set names for 18 preset modes. You can also set names for inputs and windows to be shown with the video. After

you finish naming, remember to click on the

save button to save the settings

Preset Names

Preset Nam	ies					
^A 1	5	[^] 1 <i>↓</i> ⁸ 2 [^] 3 ⁹ 4	A 1	4	2 A 1	3 4
Full screen		Quad	Preset 1		Preset 2	
^ 1 .	2 3 4	² 3 4 ⁴	12 3	2	2 A	15
Preset 3		Preset 4	Preset 5		Preset 6	
15 4	3	1 2 3 4	1 <i>1</i> 3	2 2 4	^ 1♪ 3	^B 2 D 4
Preset 7		Preset 8	Preset 9		Preset 10	
1 1 B 3 D	2 4	1 B 2 3 4	1 <i>1</i> 3	2 4	^ 1♪ 3	^B 2 D4
Preset 11		Preset 12	Preset 13		Preset 14	
^ 1♪ ^в 3	2 4	[▲] 1 [▶] 2 3 [▶] 4	^ 1♪ 6 3	2 4	[•] 1♪ [•] 3	^в 2 ^D 4
Preset 15		Preset 16	Preset 17		Preset 18	
Input Nam	1es Input 1		Window N	Vames Window A		
Input 2	Input 2		– Window B	Window B		
			_			
Input 3	Input 3		Window C	Window C		
Input 4	Input 4		Window D	Window D		
						AVE
					57	WC.

EDID:

(4.1) Mode:

You can select the EDID mode of each input (1-4), and check the name of each EDID and whether to lock it.

Input	EDID Mode	EDID Name	EDID Lock
Input 1	2160p 🔻	MIT Matrix	Lock Unlocked
Input 2	2160p 🔻	MIT Matrix	Lock Unlocked
Input 3	User-defined v	GSM LG HDR 4K	Lock Unlocked
Input 4	2160p 🔻	MIT Matrix	Lock Unlocker

(4.2) Copy:

You can copy the EDID from a selected input or output, to a selected destination. Then

click the	Сору	button to complete the copy process.
-----------	------	--------------------------------------

Select EDID to Copy Select One					Select Copy Destination				
Output HDMI				Inputs Inputs must be	in custom EDID	mode and unloc	ked		
Inputs				Input 1	Input 2	Input 3	Input 4		
Input 1	Input 2	Input 3	Input 4	Сору					

(4.3) EDID Info:

You can choose an input EDID through the drop-down list to check the feature and audio formats.

Choose EDID	Input 1	•
	Input	
	Input 1	
Feature	Input 2	
	Input 3	
	Input 4	
	Input	
	HDMI	
	Max Color Depth	
	Mode (DVI/HDMI)	

(4.4) Upload/Download:

You can click the	BROWSE. button to op	pen an EDID from a file and select the destination. Then
Press the UPLOAD	button to upload th	ne EDID. You can also download the EDID to your
computer.		
Upload EDID		
Select EDID File: BROWSE		
Select Destination:		
Input 1	UPLOAD	
Download EDID to your Cor	mputer	
Select EDID File:		
Output	DOWNLOAD	

5 Network:

> IP Settings: Select the Ethernet settings for the device and check relevant information here.

IP Settings			
MAC Address	80:1f:12:67:35:c2	IP Address	192.168.1.46
HTTP Port	80	Subnet	255.255.255.0
Mode	Static	Gateway	192.168.1.1

> TCP/Telnet Settings: Select the TCP/Telnet settings for the device and check relevant information here.

TCP/Telnet Settings				
TCP Access	Enable	Disable	User Name	Admin
TCP Port	23		Old Password	
Login Message on Connect	Show	Hide	New Password	
Require Password on Connect	Enable	Disable	Confirm New Password	
				CHANGE PASSWORD

> Web Login Settings: Set new password for Operator and Administrator account.

Web Login Settings				
Username	Operator	Administrator	Old Password	S8
New Password			Confirm New Password	
				CHANGE PASSWORD

System:

This function allows the user to set the unsolicited feedback (This command allows the user to monitor the device, connect the device to a computer with an RS-232 cable and open PuTTY, the software will record every command that is giving to the device.) and OSD display time, and you can also read the firmware version here. Plus the user can download, upload, or restore the configuration file, and you

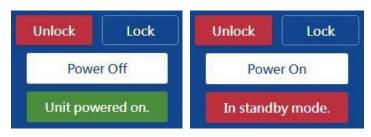
can click the button to do a default factory reset (warning all settings will be lost), or click

the **REBOOT** button to reboot the device (similar to power-cycling the device).

Unsolicited Feedback	Enable	Disabl	e				
OSD Timeout	Disable	5 Sec	10 Sec	30 Sec	60 Sec		
Firmware Version	v1.31						
Download Current Configuration to PC	DOWNLOAD						
Restore/Upload Configuration File							
BROWSE	RESTO	DRE					
Warning: All current settings will be lost							
Factory Reset	RESE	ar					
Reboot	REBO	от					

Power:

- Lock / Unlock: Click the Lock or Unlock button to lock or unlock the device.
- Power Off / Unit powered on: The device is powered on. Click the Power Off button to turn off the power.
- Power On / In standby mode: The device is in standby mode. Click the Power On button to turn on the power.



10. OSD Control

The OSD controls are similar to the ones already discussed in this manual. The below table summarizes the controls available. The table is organized with the main sections on the left, followed by the commands and their parameters.

1. Main	Presets	Full Screen, Quad, Preset 1-18			
	Routing	Input 1-4, Off			
	Audio	Input 1-4, Mute			
	Switch Mode	Seamless, Fade In/Out, Dissolve, Wipe			
	Wipe Mode	Left to Right, Right to Left, Up to Down, Down to Up			
	Transition Time	0.0-10.0			
	HDR	Enable, Disable			
2. Setup	Output Resolution	480p, 576p, 720p 50Hz, 720p 59.94, 720p 60Hz, 1080p 50Hz, 1080p 59.94Hz, 1080p 60Hz, 2160p 50Hz, 2160p 59.94Hz, 2160p 60Hz			
	Window Setup	Picture (Brightness, Contrast, Saturation, Hue), Layout (X Position, Y Position, Width, Height, Priority), Label (On, Off)			
	HPD Control	Input 1-4, Pulse ALL, Output			
	НДСР	Follow Input, Always On 1.4, Always On 2.2			
	Background	Disable, Background 1-4			
	Audio Mode	Follow Full-Screen, Fixed			
	Save Preset	Preset 1-18			
3. EDID	Input1-4	External, Custom, Internal			
4 Natural	IP Settings	Mode, IP Address, Subnet, Gateway, HTTP Port			
4. Network	TCP/Telnet Settings	TCP Access, Telnet Port, Login Message, and Telnet Login			
	Unsolicited Feedback	Enable, Disable			
	OSD Timeout	Off, 5 seconds, 10 seconds, 30 seconds, 60 seconds			
5. System	Firmware Version	Firmware Version information			
	Factory Reset	No, Yes			
	Reboot	No, Yes			

Regulatory Compliance

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CE/FCC & Recycling Information

CE Certification

This equipment complies with the requirements relating to Electromagnetic Compatibility Standards EN55022/EN55024 and the further Standards cited therein. It must be used with shielded cables only. It has been manufactured under the scope of RoHS compliance.

FCC Certification

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. You are cautioned that changes or modification not expressly approved by the party responsible for compliance could void your authority to operate the equipment.

This device complies with part 15 of the FCC Rules.

Operation is subject to the following two conditions:

- 1. This device may not cause harmful interference, and
- 2. This device must accept any interference received, including interference that may cause undesired operation



WEEE (Waste of Electrical and Electronic Equipment), Recycling of Electronic Products

In 2006 the European Union introduced regulations (WEEE) for the collection and recycling of all waste electrical and electronic equipment. It is no longer allowable to simply throw away electrical and electronic equipment. Instead, these products must enter the recycling process.

Each individual EU member state has implemented the WEEE regulations into national law in slightly different ways. Please follow your national law when you want to dispose of any electrical or electronic products. More details can be obtained from your national WEEE recycling agency.

C E F©



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