

# ANI-QUAD-GRPHX

4x1 HDMI Seamless Quad PiP/PoP Scaler  
With Graphic Insert (Logo) Overlay Feature





## SAFETY INFORMATION



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

**▶ CONTENTS**

INTRODUCTION&CONTENTS.....1  
 FEATURES&SPECIFICATIONS.....2  
 OPERATIONCONTROLS&FUNCTIONS.....3  
     FRONTPANELCONNECTION.....3  
     BACKPANELCONNECTION.....3  
     REMOTECONTROL.....4  
     IR CODES .....5  
 OSD MENU .....6  
 RS-232 PROTOCOLS ..... 9  
 TIMING SUPPORTED ..... 9  
 RS-232&TELNETCOMMANDS.....10  
 TELNET CONTROL.....15  
 WEB GUI INTERFACE .....16  
 CONNECTION&INSTALLATION.....20

**DEAR CUSTOMER**

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

**INTRODUCTION**

The ANI-QUAD-GRPHX 4x1 HDMI Seamless Quad PiP Scaler is a high performance, high speed zooming/shrinking system that can be easily configure and controlled for quad or picture-in-picture video processing. Allowing (4) different input sources to be freely selected and arranged on one single display. Supporting output resolutions up to 1080p and audio up to 8CH 192KHz for both inputs and outputs. Screen setting hot keys with IR, RS-232, WebGUI and Telnet allows instant control and switching on the output display. Additionally, this unit features a free logo upload option that will appear on the output display. This product has a 3 year warranty.

**PACKAGE CONTENTS**

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

- ANI-QUAD-GRPHX 4x1 HDMI Seamless Quad PiP/PoP Scaler
- Remote Control
- 12V/3A DC Power Adaptor
- Rack Ear Sets
- Users Guide

**APPLICATIONS**

- Broadcasting room and control
- Surveillance room and control
- Public advertisement and control
- Digital Presentation

**SAFETY PRECAUTIONS**

Please read all instructions before attempting to unpack, install or operate this equipment and before connecting the power supply. Please keep the following in mind as you unpack and install this equipment:

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

**DISCLAIMERS**

The information in this manual has been carefully checked and is believed to be accurate. We assume no responsibility for any infringements of patents or other rights of third parties which may result from its use.

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## FEATURES

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- Seamless switching between channels and windows
- Zoom and Shrink 4CH input images and/or overlay them
- Supports PiP, PoP and multi-windows display
- Supports OSD, RS-232, Telnet, WebGUI, Remote and On-panel controls
- Fade-In-Out, Chromakey, Mirror and Rotation (90° left & right and 180° up & down) functions
- (8) Screen setting hot keys and an extra (4) customizable favorite screen settings
- Supports easy individual channel, size and position adjustment
- Supports output image logo display with self-design logo file upload

## SYSTEM REQUIREMENTS

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- Input source equipment such as DVD/Blu-ray players and PC/NB devices and output HD TV/monitor.

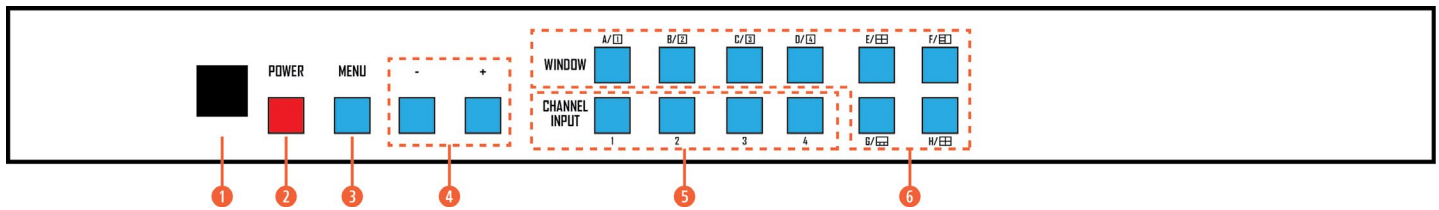
## SPECIFICATIONS

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- **Video Bandwidth:** 225MHz/6.75Gbps
- **Input Ports:** (4) HDMI
- **Output Port:** (1) HDMI
- **Supports Input Resolutions:** PC: VGA~WUXGA, HD: 480i~1080p
- **Supports Output Resolutions:** 1080p@60Hz
- **HDMI Input Cable Distance:** Up to ~50 ft/15M 1080p@12bits
- **HDMI Output Cable Distance:** Up to ~50 ft/15M 1080p@8bits
- **Supports Sampling Rates:** 32~192KHz
- **ESD Protection Human Body Model:**
  - ±8kV (air-gap discharge)
  - ±4kV (contact-gap discharge)
- **Power Supply:** 12V/3A DC (US/EU standards, CE/FCC/UL certified)
- **Dimensions (WxDxH):** 17.2 x 9.7 x 1.7 in (436x246x44mm) (Jack Excluded) / 17.2 x 9.7 x 1.9 in (436x256x49mm) (Jack Included)
- **Weight:** 6.0 lb (Unit only) / 8.4 lb (Net)
- **Chassis Material:** Aluminum
- **Silkscreen Color:** Black
- **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)
- **Power Consumption:** 18W

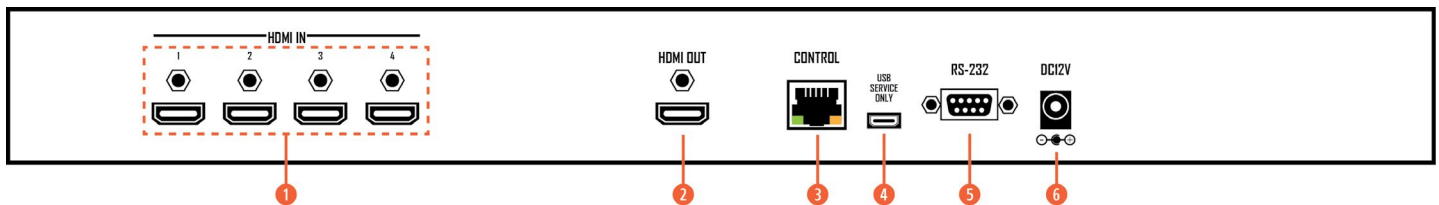
As product improvements are continuous, specifications are subject to change without notice.

## FRONT PANEL



- ① **IR WINDOW:** Accepts IR signals from the device's remote control included in the package
- ② **POWER:** Press this button to power ON the device or set it to standby mode
- ③ **MENU:** Press this button to bring up the OSD menu on screen
- ④ **-/+ BUTTONS:** Press these buttons to scroll Up /Down the OSD selections
- ⑤ **CHANNEL INPUT 1~4:** Press these buttons to rotate HDMI 1~4 input sources on each channel to be displayed on screen. All channels can select the same input or a different input for each channel.
- ⑥ **WINDOW A~H:** Press these hot keys to select the screen setting where A~D display a full screen of each channel and E~H are a different combination of a full screen setting of all (4) channels. Windows A~D channel input selection corresponds to channel inputs No. 1~4. That is, to change window A's input channel, you must press the channel Input 1 button. Channel Input 2~4 buttons will not activate under window A's selection. Windows E~H's sizes are adjustable through the OSD menu setting and only window G is PiP (Picture in Picture) where E, F & H have PoP (Picture out Of picture) settings. Under window E~H when the size setting is overlapping one another, the channel display sequence is CH4 > CH3 > CH2 > CH1. That is, CH4 will cover CH3 and CH3 will cover CH2 and so on. Under some displays the borderline may have interference, adjusting the display's motion setting may resolve the interference issue.

## BACK PANEL

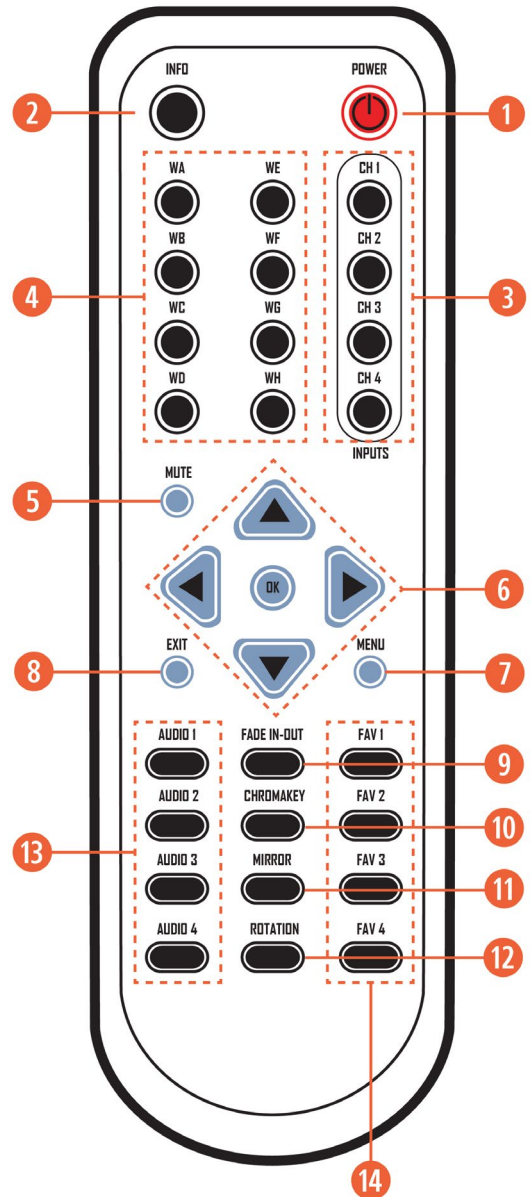


- ① **HDMI IN:** Connects with source equipment such as a DVD/Blu-Ray players and/or PC/NB devices
- ② **HDMI OUT:** Connects with a HDTV/monitor for output image display at 1080p
- ③ **CONTROL:** Connects to an active network for Telnet control
- ④ **USB SERVICE ONLY:** This slot is reserved for logo file upload and factory use
  - LOGO FILE REQUIREMENTS:** .bmp files with 256 colors and sizes up to 512x512 pixels
  - UPLOAD PROCEDURE:** Enter into **OSD Menu**→**IO Setup**→**LOGO Setting**→**Load New LOGO**, now both Window A and CH 1's button LED will illuminate, plug this USB port to your PC/Laptop and wait for USB window to pop up.
  - Drag and load the logo file into the USB window or into **"COPY LOGO"** and it will automatically upload. Wait for 1~2 minutes for the device to reboot itself and the upload to be successful.
- ⑤ **RS-232:** Connects from PC/NB with a D-Sub 15pin cable for RS-232 command sendings
- ⑥ **DC 12V:** Plug the 12V DC power supply into the unit and connect the adaptor to an AC outlet

## OUTPUT RESOLUTIONS

- ❶ **POWER:** Press this button to switch on the device or press it again to set it to standby mode
- ❷ **INFO:** Press this button to show the device's firmware version
- ❸ **INPUT CH 1~4:** Press these buttons to rotate the HDMI 1~4 Input sources on each channel to be displayed on screen
- ❹ **WA~WH:** Press these hot keys to select the screen setting where WA~WD display a full screen of each channel and WE~WH display a different combination of a full screen setting for all (4) channels.
- ❺ **MUTE:** Press this button to mute the audio from the HDMI output port
- ❻ **▲▼▶◀ & OK BUTTONS:** Press these buttons to scroll through the OSD selection and press **OK** to enter and confirm the setting
- ❼ **MENU:** Press this button to enter into the OSD menu
- ❽ **EXIT:** Press this button to exit the OSD menu or the OSD settings
- ❾ **FADE-IN-OUT\*:** Press this button to switch On or Off the Fade-In-Out function
- ❿ **CHROMAKEY\*:** Press this button to enter into the Chroma function where CH 1 is the background and CH 2 is the top image
- ⓫ **MIRROR\*:** Press this button to display the screen in mirror image
- ⓬ **ROTATION\*:** Press this button to rotate the image 90° left and right or 180° upside down
- ⓭ **AUDIO 1~4:** Press these buttons to select audio from HDMI Input sources 1~4
- ⓮ **FAV. 1~4:** Press these buttons to bring up the customized screen settings

\* Functions only work under Window A to D. The system will force switch to Window A when operating under Window E~H.



**IR CODES**

CUSTOM CODE: 807F

POWERTOGGLE: 807F 82  
INFO: 807F 86  
MUTE: 807F C2  
UP: 807F 9A  
DOWN: 807F 9E  
LEFT: 807F 9C  
RIGHT: 807F 98  
OK: 807F 9D  
EXIT: 807F D8  
MENU: 807F 84  
FADE IN-OUT: 807F 8F  
CHROMEKEY: 807F CC  
MIRROR: 807F CD  
ROTATION: 807F CE

**SCREEN SETTINGS:**

WA: 807F 88  
WE: 807F 89  
WB: 807F 8C  
WF: 807F 8D  
WC: 807F 90  
WG: 807F 91  
WD: 807F 85  
WH: 807F 95

**CHANNELS:**

CH1: 807F 8A  
CH2: 807F 8E  
CH3: 807F 92  
CH4: 807F C6

**AUDIO SETTINGS:**

AUDIO1: 807F 87  
AUDIO2: 807F C4  
AUDIO3: 807F C5  
AUDIO4: 807F D9

**FAVORITE SETTINGS:**

FAV.1: 807F 97  
FAV.2: 807F D4  
FAV.3: 807F D5  
FAV.4: 807F D6

OSD MENU

NOTE: Bold or *Italic* fonts and ( ) figures are the factory default setting.

MAIN MENU	1ST LAYER	2ND LAYER	3RD LAYER
Image Adjust	Image Still Adjust	CH1	On/ <b>Off</b>
		CH2	On/ <b>Off</b>
		CH3	On/ <b>Off</b>
		CH4	On/ <b>Off</b>
		All Channel	On/ <b>Off</b>
		Menu Exit	
	Image Swap	CH 1 CH 2 Swap	
		CH 1 CH 3 Swap	
		CH 1 CH 4 Swap	
		CH 2 CH 3 Swap	
		CH 2 CH 4 Swap	
CH 3 CH 4 Swap			
Window Setup	Channel 1/2/3/4 Select	Size Wxxx Hxxx	Width Unit
			Width Ten
			Width Hundred
			Height Unit
			Height Ten
			Height Hundred
			Value Rest
			Menu Exit
		Position Wxxx Hxxx	Height Unit
			Height Ten
			Height Hundred
			Value Rest
			Menu Exit
			Image Output
	Priority	1~4	
	Window Reset		
	Menu Exit		
	Label Select	Video 1	Rename up to 9 characters
		Video 2	Rename up to 9 characters
		Video 3	Rename up to 9 characters
Video 4		Rename up to 9 characters	
Menu Exit			
Store Favorites	FAV 1 Store	On/ <b>Off</b>	
	FAV 2 Store	On/ <b>Off</b>	
	FAV 3 Store	On/ <b>Off</b>	
	FAV 4 Store	On/ <b>Off</b>	
	Menu Exit		



OSD MENU

MAIN MENU	1ST LAYER	2ND LAYER	3RD LAYER
Window Convert	Channel 1/2/3/4 Convert	Mirror	On/Off
		Fade In-Out	Off/1.0/1.1/1.2/1.3/1.4/1.5/1.6/1.7/1.8/1.9/2.0/2.1/2.2/2.3/2.4/2.5/2.6/2.7/2.8/2.9/3.0
		Rotation	L90/R90/180/Off
		Window Reset	
		Menu Exit	
Chromakey Setup*	User 1	Minimum for R/G/B	000~255 (0)
		Maximum for R/G/B	222~255 (255)
	User 2	Minimum for R/G/B	000~255 (0)
		Maximum for R/G/B	222~255 (255)
	White	Minimum for R/G/B	000~255 (233)
		Maximum for R/G/B	222~255 (255)
	Yellow	Minimum for R/G/B	000~255 (233/233/0)
		Maximum for R/G/B	222~255 (255/255/16)
	Cyan	Minimum for R/G/B	000~255 (233/0/233)
		Maximum for R/G/B	222~255 (255/16/255)
	Green	Minimum for R/G/B	000~255 (233/0/0)
		Maximum for R/G/B	222~255 (255/16/16)
	Magenta	Minimum for R/G/B	000~255 (0/233/233)
		Maximum for R/G/B	222~255 (16/255/255)
	Red	Minimum for R/G/B	000~255 (0/233/0)
		Maximum for R/G/B	222~255 (0/233/0)
	Blue	Minimum for R/G/B	000~255 (0/0/232)
		Maximum for R/G/B	222~255 (16/16/255)
	Black	Minimum for R/G/B	000~255 (0)
		Maximum for R/G/B	222~255 (16)
Switch	On/Off		
Exit			
Ethernet Setup	IP Mode	Static/DHCP	
	Static Set	IP/Mask/Gate	
	Byte1 High	192	
	Byte2	168	
	Byte3	1	
	Byte4 Low	50	
	Time Out	OFF/10/20/30/40/50/60min	
	Re-Link	No/Yes	
	Exit		
	Static/DHCP IP	LINKED/NOT LINKED	
	IP	IP/Mask/Gate	
	Mask	xxx. xxx. xxx. xxx	
	Gate	xxx. xxx. xxx. xxx	
	Mac	xxx. xxx. xxx. xxx	
	Sink HDMI/DVI		

## OSD MENU

MAIN MENU	1ST LAYER	2ND LAYER	3RD LAYER
<b>Audio Setup</b>	<b>Audio Source</b>	Mute/CH1/2/3/4	
<b>Sys Reset</b>	On/Off		
<b>Information</b>	Screen HDMI		
	Native xxxxxx		
	F/W version vx.xx		
	F/W Upgrade		
	Menu Exit		
<b>Menu Exit</b>			

\* Chromakey Setup works only under CH1& CH2 where CH1 is the background and CH2 is the top layer. This special function is designed for pictures overlapping video such as in news reports, weather forecasts or educational videos. CH2, the top layer's background color is usually a single color, which can be easily removed. The RGB settings for CH2 video are such that the minimum setting figures cannot be greater than the maximum figures and the maximum figures cannot be lower than the minimum setting figures. When Input 1 or 2 does not have a source connection, a warning message will appear on the OSD.

**TIMING SUPPORTED**

INPUT TIMING SUPPORTED	OUTPUT TIMING SUPPORTED
640x480@60,72,75,85	1024x768@60,70,75,85 V@60
800x600@56,60,72,75,85	1280x800@60
1024x768@60,70,75,85	1280x1024@60,75 V@60
1360x768@60	1366x768@60
1280x768@60,75	1440x900@60
1280x1024@60,75	1600x900@60
1366x768@60	1600x1200@60
1600x1200@60	480p60
1920x1200@60	576p50
480i60	720p50
576i50	720p60
480p60	1080p24
576p50	1080p25
720p50	1080p30
720p60	1080p50
1080i50	1080p60
1080i60	
1080p24	
1080p50	
1080p60	

**RS-232 PROTOCOLS**

ANI-QUAD-GRPHX	
PIN	ASSIGNMENT
1	NC
2	Tx
3	Rx
4	NC
5	GND
6	NC
7	NC
8	NC
9	NC



REMOTE CONTROL	
PIN	ASSIGNMENT
1	NC
2	Rx
3	Tx
4	NC
5	GND
6	NC
7	NC
8	NC
9	NC

Baud Rate: 115200bps  
 Data Bit: 8bits  
 Parity: None  
 Flow Control: None  
 Stop Bit: 1

**RS-232 & TELNET COMMANDS**

COMMAND CODE	DESCRIPTION	PARAMETER
?	PRINTS ALL AVAILABLE RS-232/TELNET COMMANDS TO THE SCREEN	
HELP	PRINTS ALL AVAILABLE RS-232/TELNET COMMANDS TO THE SCREEN	
SPOW 0/1	SETS THE UNIT POWER ON/OFF	0=OFF, 1=ON
RPOW	SHOWS CURRENT POWER STATE	
SRES 0~18	SETS OUTPUT RESOLUTION	(0) 480p 60Hz (1) 576p 50Hz (2) 720p 50Hz (3) 720p 60Hz (4) 1080p 24Hz (5) 1080p 25Hz (6) 1080p 30Hz (7) 1080p 50Hz (8) 1080p 60Hz (9) 1024x768 60Hz (10) 1280x800 60Hz (11) 1280x1024 60Hz (12) 1366x768 60Hz (13) 1440x900 60Hz (14) 1600x900 60Hz (15) 1600x1200 60Hz (16) 1680x1050 60Hz (17) 1920x1200 60Hz (18) Native
RRES	SHOWS CURRENT OUTPUT RESOLUTION	
SIOSDD 0/1	ENABLE/DISABLE ONSCREEN INFORMATION DISPLAY	0=OFF, 1=ON (0)
RIOSDD	SHOWS INFORMATION OSD DISPLAY CURRENT STATE	
SOSDH 0~20	SETS OSD HORIZONTAL POSITION	0~20 (5)
ROSDH	SHOWS OSD HORIZONTAL POSITION CURRENT	
SOSDV 0~20	SETS OSD VERTICAL POSITION	0~20 (5)
ROSDV	SHOWS OSD VERTICAL POSITION CURRENT	
SOSDT 0, 5~50	SETS OSD DISPLAY TIME	0=OSD OFF OSDTIME (5~50 sec) DEFAULT=10sec
ROSDT	SHOWS OSD DISPLAY CURRENT TIME	
SOSDG 0~10	SETS OSD TRANSPARENT VALUE	0~10 (5)
ROSDG	SHOWS OSD TRANSPARENT CURRENT VALUE	
SBRI N M	SETS BRIGHTNESS VALUE FOR INPUT CHANNEL	N=0/All, 1~4/CHANNEL M=0~100 (50)
RBRI	SHOWS BRIGHTNESS CURRENT VALUE FOR INPUT CHANNEL	0=All, 1~4
RCON	SHOWS CONTRAST CURRENT VALUE	0=All, 1~4
SSAT N M	SETS SATURATION VALUE FOR INPUT CHANNEL	N=0/All, 1~4/CHANNEL M=0~100 (50)
RSAT	SHOWS SATURATION CURRENT VALUE	0=All, 1~4
SHUE N M	SETS HUE VALUE FOR INPUT CHANNEL	N=0/All, 1~4/CHANNEL M=0~100 (50)
RHUE	SHOWS HUE CURRENT VALUE	0=All, 1~4
SSTILL N M	SETS IMAGE STILL	N=0/All, 1~4/CHANNEL M=0/OFF, 1/ON (0)
RSTILL	SHOWS IMAGE CURRENT STILL STATUS	0=All, 1~4

COMMAND CODE	DESCRIPTION	SYNTAX
SSWAP (0~5)	SETS OUTPUT IMAGE SWAP	0= CH1 CH2 SWAP 1= CH1 CH3 SWAP 2= CH1 CH4 SWAP 3= CH2 CH3 SWAP 4= CH2 CH4 SWAP 5= CH3 CH4 SWAP
RSWAP	SHOWS IMAGE CURRENT INPUT SOURCE	0=CH1 CH2 CURRENT INPUT SOURCE 1=CH1 CH3 CURRENT INPUT SOURCE 2=CH1 CH4 CURRENT INPUT SOURCE 3=CH2 CH3 CURRENT INPUT SOURCE 4=CH2 CH4 CURRENT INPUT SOURCE 5=CH3 CH4 CURRENT INPUT SOURCE
SPIRE	RESETS BRIGHTNESS, CONTRAST, SATURATION, HUE. ALL CHANNEL VALUE TO DEFAULT	
SIMRE 1~4	RESETS BRIGHTNESS, CONTRAST, SATURATION or HUE, VALUE TO DEFAULT	1=BRIGHTNESS 2=CONTRAST 3=SATURATION 4=HUE
SHSIZE N M	SETS IMAGE HORIZONTAL SIZE	N=1~4 M=0~X HORIZONTAL SIZE FOR CURRENT RESOLUTION
RHSIZE	SHOWS IMAGE HORIZONTAL SIZE CURRENT VALUE	1~4 CHANNEL HORIZONTAL SIZE
SVSIZE N M	SETS IMAGE VERTICAL SIZE	N=1~4 M=0~X VERTICAL PIXEL FOR CURRENT RESOLUTION
RVSIZE	SHOWS IMAGE VERTICAL SIZE CURRENT VALUE	1~4 CHANNEL VERTICAL SIZE
SHPOS N M	SETS HORIZONTAL POSITION OF SPECIFIED CHANNEL	N=1~4 M=0~X HORIZONTAL PIXEL FOR CURRENT RESOLUTION
RHPOS	SHOWS IMAGE HORIZONTAL POSITION CURRENT VALUE	1~4 CHANNEL HORIZONTAL POSITION
SVPOS N M	SETS VERTICAL POSITION OF SPECIFIED CHANNEL	N=1~4 M=0~X VERTICAL PIXEL FOR CURRENT RESOLUTION
RVPOS	SHOWS IMAGE VERTICAL POSITION CURRENT VALUE	1~4 CHANNEL VERTICAL POSITION
SIMAGE N M	SETS OUTPUT CHANNEL IMAGE ON/OFF	N= 1~4 M=0/OFF, 1/ON
RIMAGE	SHOWS OUTPUT CHANNEL IMAGE CURRENT	(0)=ALL CHANNEL (1~4)=CHANNEL 1~4
SPRI N M	SETS WINDOWS PRIORITY	N= CHANNEL 1~4 M= PRIORITY 1~4
RPRI	SHOWS WINDOWS PRIORITY	0=ALL CHANNEL 1~4=CHANNEL 1~4

COMMAND CODE	DESCRIPTION	SYNTAX
SLABEL N M	ASSIGNS A PRESET NAME	N= CHANNEL 1~4 M= A~Z/0~9....
RLABEL	SHOWS PRESET NAME TO SCREEN	0=ALL CHANNEL 1~4=CHANNEL 1~4
SSTORE 1~4	SAVES THE CURRENT WINDOW TO FAV1~FAV4	1~4= FAV1~FAV4
SRECALL 1~12	SETS A OUTPUT WINDOWS TO WINDOWS A~WINDOWS FAV4	(1) WA (2) WB (3) WC (4) WD (5) WE (6) WF (7) WG (8) WH (9) FAV1 (10) FAV2 (11) FAV3 (12) FAV4
SMIRROR 0/1	SETS ENABLE/DISABLE MIRROR EFFECT	0=OFF, 1=ON
RMIRROR	SHOWS MIRROR CURRENT TO SCREEN	
SFADE 0~21	SETS FADE IN-OUT TIME	(0) OFF (1) 1.0 s (2) 1.1s (3) 1.2s (4) 1.3s (5) 1.4s (6) 1.5s (7) 1.6s (8) 1.7s (9) 1.8s (10) 1.9s (11) 2.0s (12) 2.1s (13) 2.2s (14) 2.3s (15) 2.4s (16) 2.5s (17) 2.6s (18) 2.7s (19) 2.8s (20) 2.9s (21) 3.0s (0)
RFADE	SHOWS FADE IN-OUT CURRENT TO SCREEN	
SROTATE 0~3	SETS VIDEO ROTATION VIDEO TO PRESET POSITIONS	0=ROTATE OFF 1=R90 2=180 3=L90 (0)
RROTATE	SETS CHROMAKEY COLOR FOR CHROMA KEY	
SCHRKS 0~9	SETS OUTPUT CHANNEL IMAGE ON/OFF	(0) USER1 (1) USER2 (2) White (3) Yellow (4) Cyan (5) Green (6) Magenta (7) Red (8) Blue (9) Black (0)
RCHRKS	SHOWS CHROMAKEY KEY COLOR CURRENT TO SCREEN	

COMMAND CODE	DESCRIPTION	SYNTAX
SCHRC N M	SETS THE R,G,B COLOR RANGE FOR THE CHROMA KEY	N=0~11 (0) USER1 G MAX (1) USER1 G MIN (2) USER1 R MAX (3) USER1 R MIN (4) USER1 B MAX (5) USER2 B MIN (6) USER2 G MAX (7) USER2 G MIN (8) USER2 B MAX (9) USER2 B MIN (10) USER2 R MAX (11) USER2 R MIN M= VALUE 0~255
RCHRC 0~9	SHOWS CHROMAKEY CURRENT TO SCREEN	(0) USER1 (1) USER2 (2) White (3) Yellow (4) Cyan (5) Green (6) Magenta (7) Red (8) Blue (9) Black
SCHRSW 0/1	SETS ENABLE/DISABLE CHROMAKEY EFFECT	0=OFF, 1=ON (0)
RCHRSW	SHOWS CHROMAKEY EFFECT CURRENT TO SCREEN	
SIPM 0/1	SETS IP MODE TO DHCP OR STATI	0=0DHCP, 1=STATIC (1)
RIPM	SHOWS CURRENT IP MODE TO SCREEN	
SIPADD N	SETS STATIC IP ADDRESS	N=0~255
RIPADD	SHOWS STATIC CURRENT IP ADDRESS TO SCREEN	
SMAADD N	SETS STATIC SUBNET ADDRESS	N=0~255
RMAADD	SHOWS STATIC CURRENT SUBNET ADDRESS TO SCREEN	
SGAADD N	SETS STATIC GATEWAY ADDRESS	N=0~255
RGAADD	SHOWS STATIC CURRENT GATEWAY ADDRESS TO SCREEN	
SEHT 0~6	SETS ETHERNET TIMEOUT	(0) OFF (1) 10 MINUTE (2) 20 MINUTE (3) 30 MINUTE (4) 40 MINUTE (5) 50 MINUTE (6) 60 MINUTE (0)
REHT	SHOWS ETHERNET TIMEOUT CURRENT TO SCREEN	
RELINK	RELINKS THE UNIT IN 2 SECONDS	
SMAC 0~9, A~F	SETS MAC ADDRESS	0~9, A~F
RMAC	SHOWS CURRENT MAC ADDRESS TO SCREEN	
IPCONFIG	SHOWS ETHERNET ADDRESS TO SCREEN	
DEFAULT	RESETS THE UNIT TO FACTORY DEFAULTS	
SVICH N M	SETS OUTPUT VIDEO CHANNEL TO SPECIFIED SOURCE	N=0~4 0=ALL CHANNEL 1~4=OUTPUT CHANNEL M=1~4 VIDEO SOURCE
RVICH	SHOWS OUTPUT CHANNEL THE VIDEO SOURCE	

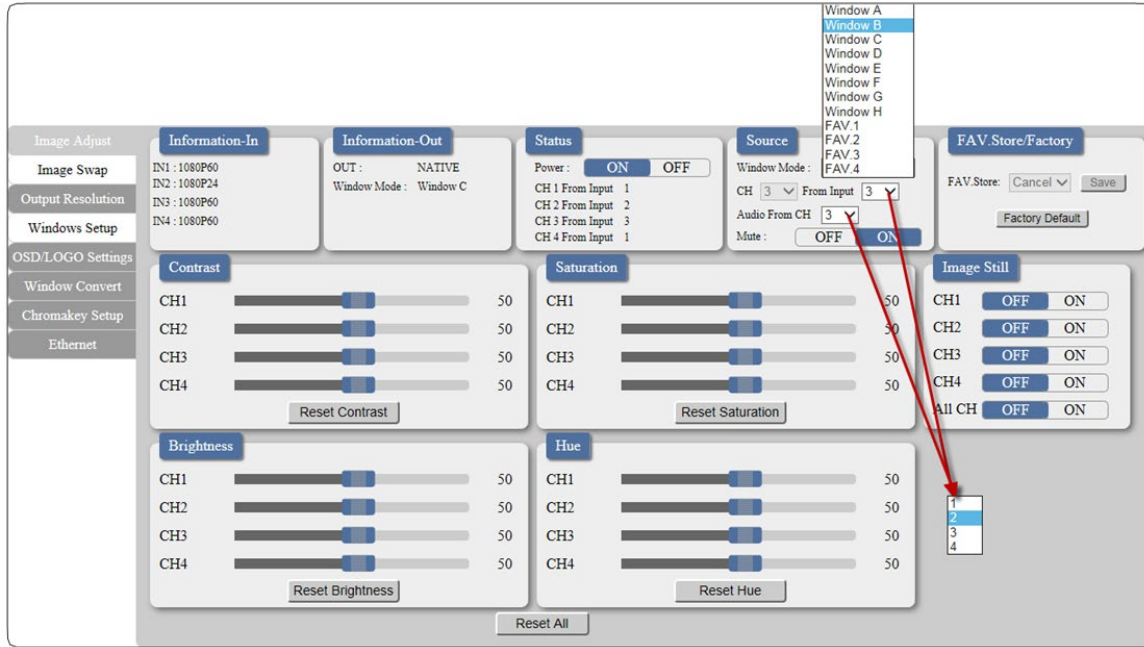
COMMAND CODE	DESCRIPTION	SYNTAX
SMUTE 0/1	SETS MUTE AUDIO	0=MUTE 1= UNMUTED (1)
RMUTE	SHOWS CURRENT MUTE TO SCREEN	
SAUDIO 1~4	SETS OUTPUT AUDIO TO SPECIFIED SOURCE	1~4=INPUT AUDIO
RAUDIO	SHOWS OUTPUT AUDIO SOURCE TO SCREEN	
SCHRE 0~4	<i>RESETS THE WINDOWS E ~ WINDOWS FAV4 CH1~CH4 SETTINGS TO FACTORY DEFAULTS</i>	0=RESET ALL CHANNEL 1~4=RESET CHANNEL 1~4
<b>SWICORE</b>	<b>RESETS THE WINDOWS A ~ D SETTINGS TO FACTORY DEFAULTS</b>	
RBIOS	SHOWS BIOS VERSION TO SCREEN	
RLOGOD	SHOWS DISPLAY LOGO CURRENT STATE	
SLOGOD 0/1	ENABLE/DISABLE DISPLAY LOGO	0=OFF, 1=ON
RLOGOH	SHOWS LOGO HORIZONTAL POSITION CURRENT	
SLOGOH N	SETS LOGO HORIZONTAL POSITION	N=HORIZONTAL PIXEL FOR CURRENT RESOLUTION
RLOGOV	SHOWS LOGO VERTICAL POSITION CURRENT	0=OFF, 1=ON (0)
SLOGOV N	SETS LOGO VERTICAL POSITION	N=VERTICAL PIXEL FOR CURRENT RESOLUTION
SDEFLOGO	LOADS DEFAULT LOGO	
SNEWLOGO	LOADS NEW LOGO	





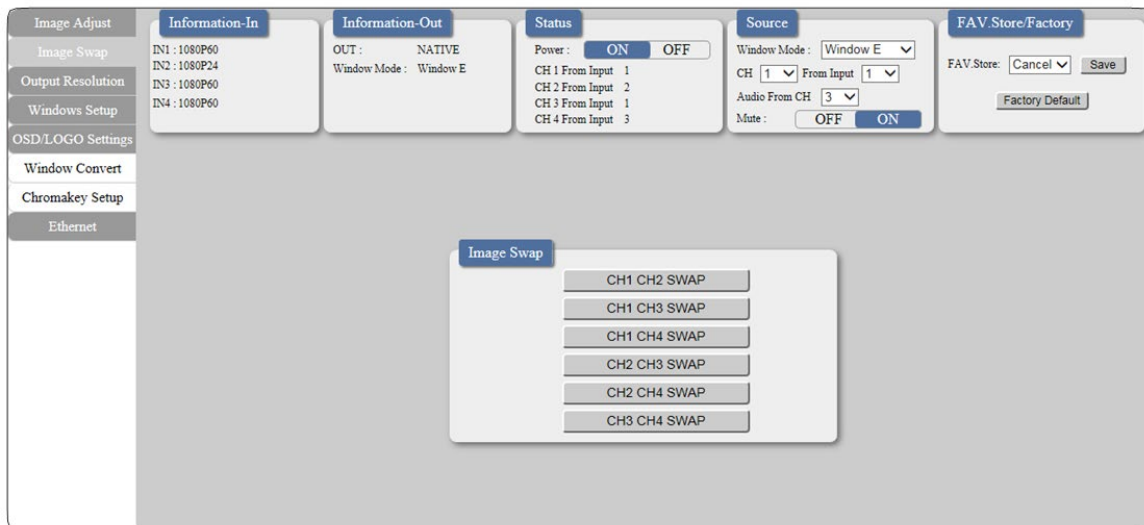
On a PC/Laptop that is connected to an active network as the Scaler, open a web browser and type device's IP address on the web address entry bar. The browser will display the device's Image Adjust, Output Resolution... etc.

Click on the 'Image Adjust' tab to control Power, Window Mode and the Windows Settings.

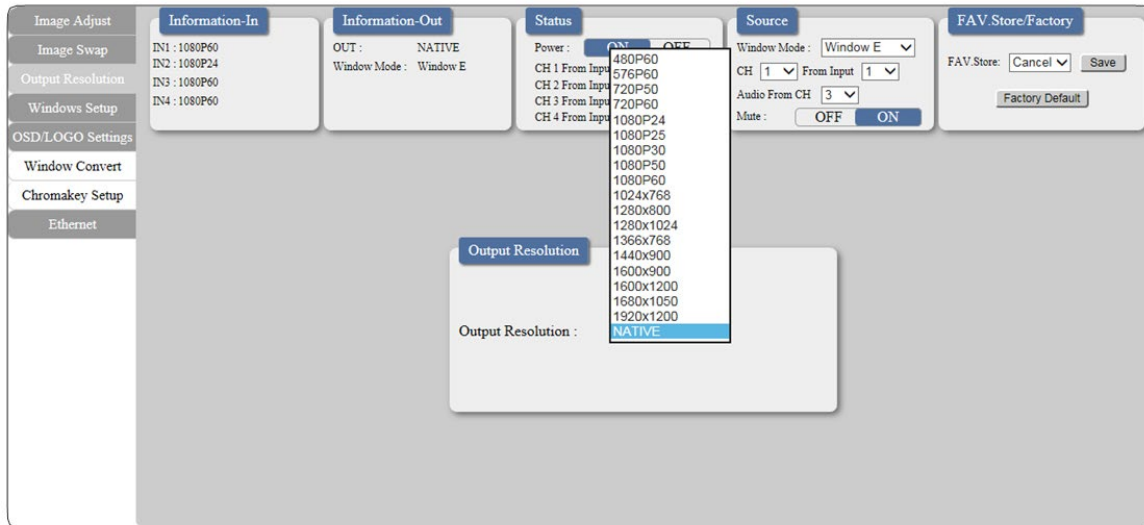


Click on 'Image Swap' to swap the output channel's image display instantly.

**NOTE:** This function is only available under window E~H.

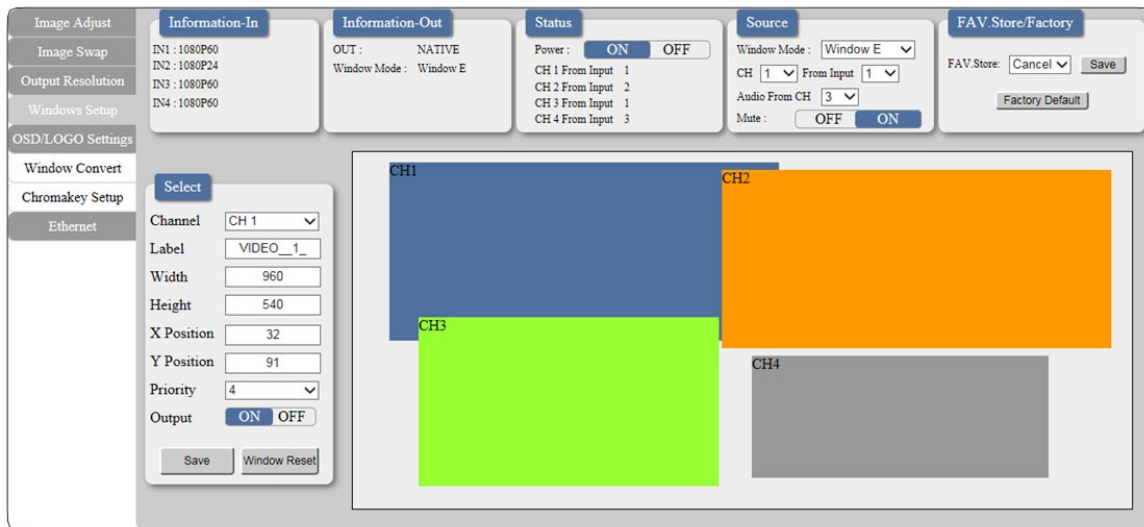


Click on the 'Output Resolution' tab to set the output display resolution.

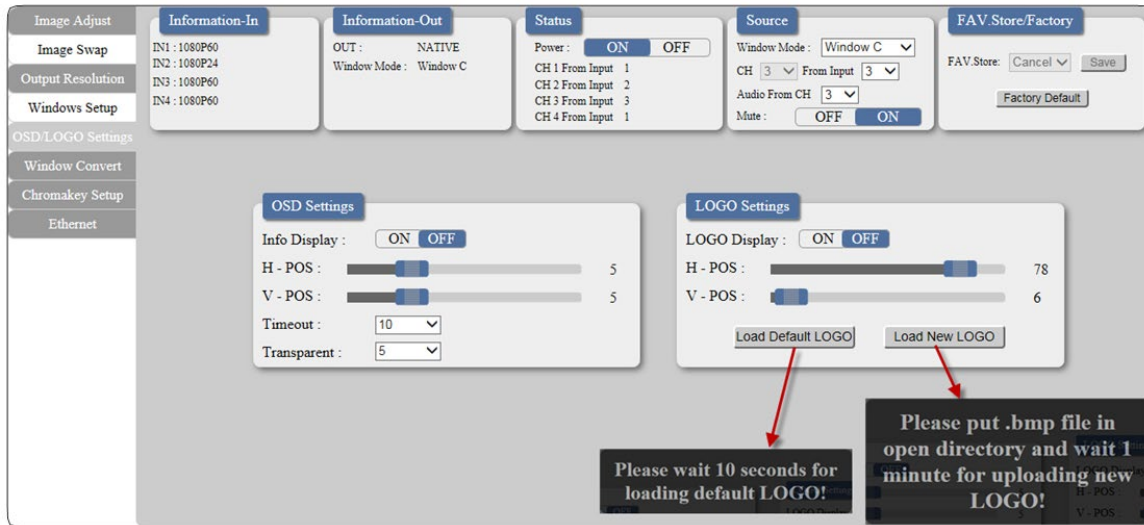


Clicking on the 'Windows Setup' tab to set the output display format.

**NOTE:** This function is only available under window E~H.

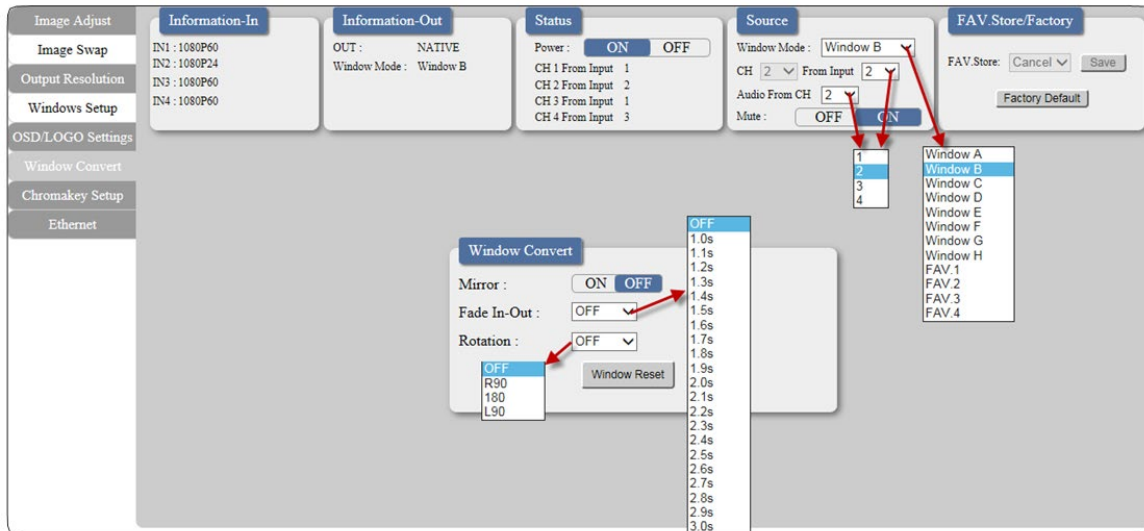


Clicking on the **'OSD/LOGO Settings'** tab to set the OSD & LOGO's function and position. Load and Upload logo can also be done under this page. For the upload procedure please refer to the rear panel description of **USB SERVICE ONLY** port.



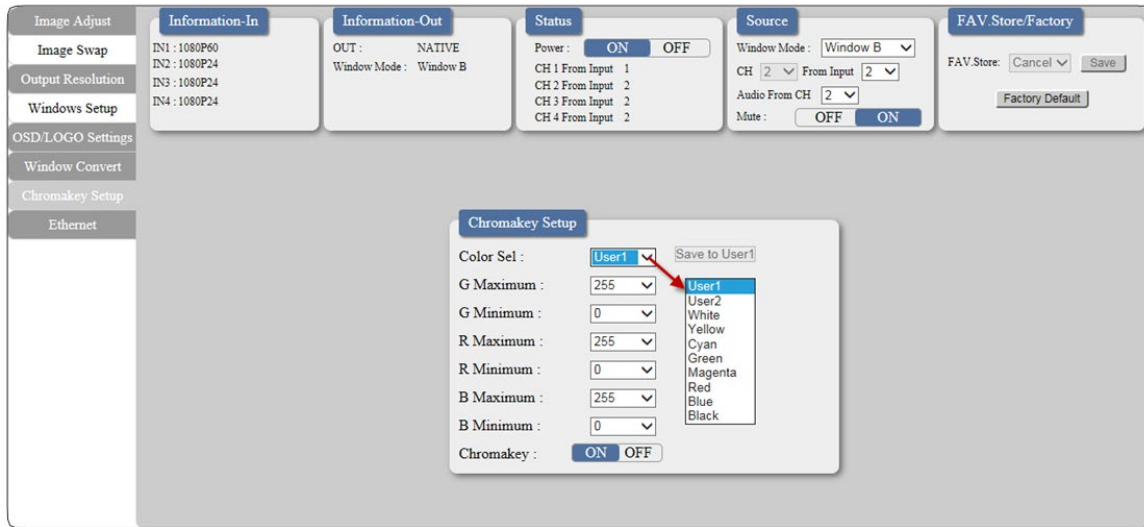
Clicking on the **'Window Convert'** tab to set the output display angle.

**NOTE:** This function is only available under window A~D.

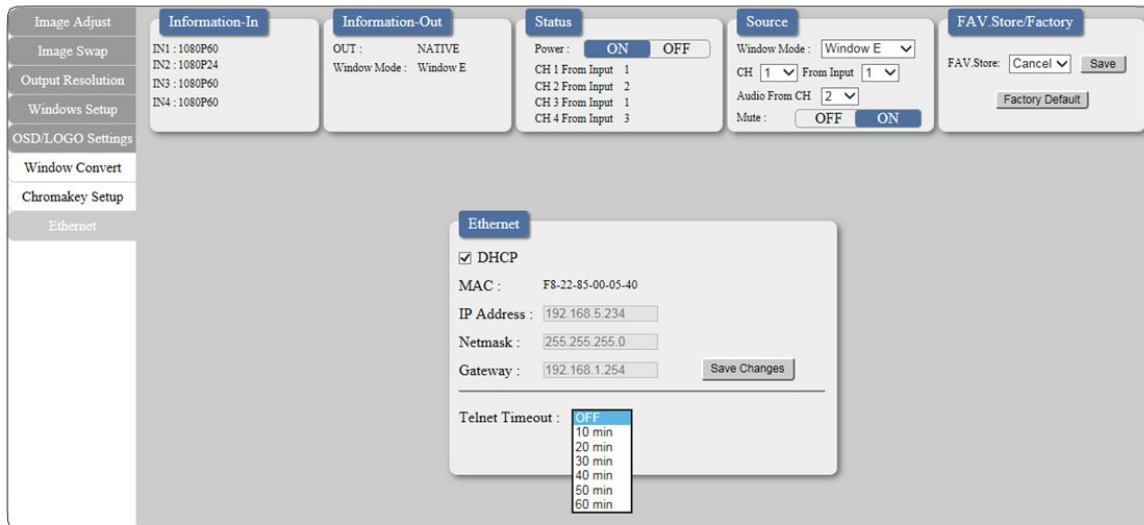


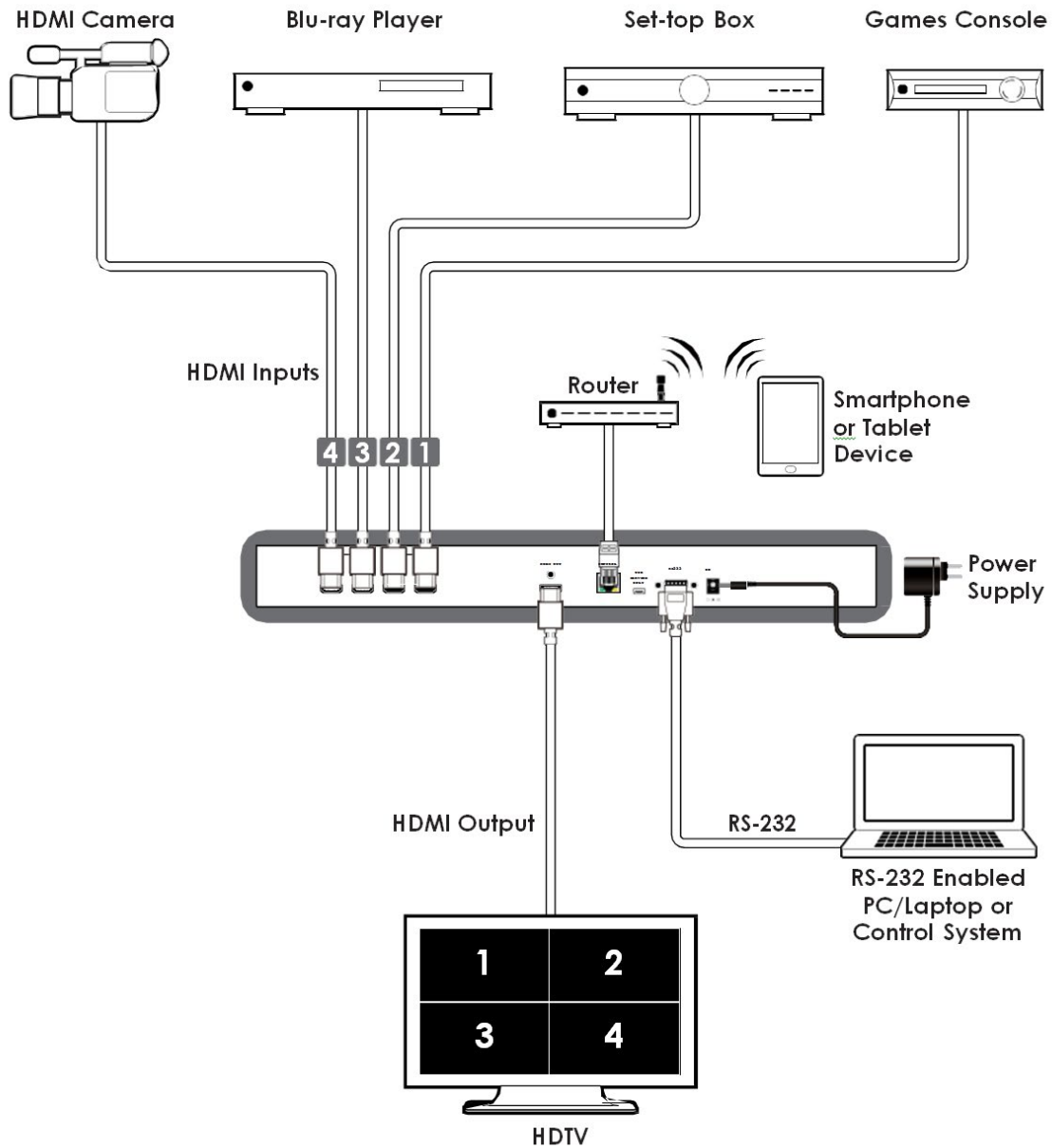
Clicking on the 'Chromakey Setup' tab to set the output display color.

**NOTE:** This function is only available under window A~D.

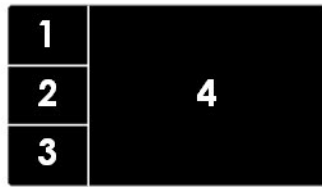


Clicking on the 'Ethernet' tab to reset the IP configuration. The system will ask for a reboot of the device every time when any of the settings are changed. The IP address needed to access the WebGUI control will also need to be changed accordingly on the web address entry bar.

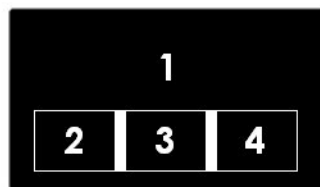




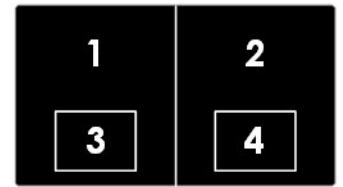
Window E (POP)



Window F (POP)



Window G (PIP)



Window H (POP)

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