

ANI-42HPIPX

UHD+ 4x2 HDMI Matrix with PiP



PACKAGE CONTENTS

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

- ANI-42HPIPX UHD+ 4x2 HDMI Matrix with PiP
- 24V/2.7A DC Power Adapter
- Rackmount Ears (Set of 2)
- Shockproof Feet (Set of 4)



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	1
FEATURES/APPLICATIONS/SYSTEM REQUIREMENTS	2
SPECIFICATIONS/CABLE SPECIFICATIONS	3
OPERATION CONTROLS & FUNCTIONS	4
FRONT PANEL	4
REAR PANEL	5
RS-232 CONTROL/TELNET CONTROL	6
OSD MENU	14
WEBGUI CONTROL	23
CONNECTION DIAGRAM	29
VIDEO SPECIFICATIONS	30
AUDIO SPECIFICATIONS	31

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-42HPIPX This 4x2 HDMI Matrix with PiP is a high performance HDMI switch with integrated scaling and multi-windowing technology which can connect up to (4) 4K UHD+ HDMI sources up to up to (2) 4K UHD+ HDMI displays and freely switch between them. It is an ideal solution for monitoring or displaying multiple sources simultaneously for use in control rooms, conference rooms or classrooms. Video resolutions up to 4K@60Hz and LPCM audio up to 7.1 channels at 192KHz are supported and this unit is fully compatible with the HDCP 1.x and 2.2 standards.

Any of (4) different HDMI sources may be displayed individually, full screen, with seamless switching in Matrix mode, or they can be displayed using a variety of multi-window modes including standard views like PiP (Picture in Picture) and PoP (Picture outside of Picture) as well as fully customizable quad-window modes. Control of input/window routing, position and sizing is easy using the front panel controls with OSD menu as well as by WebGUI, RS-232, and Telnet. This product has a 3 year warranty.

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

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FEATURES

- HDMI 2.0 and DVI 1.0 compliant (with the use of an HDMI-DVI adapter)
- HDCP 1.x and 2.2 compliant
- (4) HDMI inputs and (2) HDMI outputs
- Supports up to 4K UHD+ (18Gbps, 4K@50/60Hz 4:4:4, 8bit) video input and output
- Seamless switching (no loss of sync to display) when switching sources in Matrix mode
- Supports up to (4) simultaneous, freely scalable, windows in multiwindowing modes
- Supports the ability to store a multi-window arrangement as a preset that can be recalled later
- Independent audio source selection and routing in all modes
- Inputs 1 & 2 support pass-through of many audio formats including 8 channel LPCM, Bitstream, and HD Bitstream (Inputs 3 & 4 are limited to 2 channel LPCM only)
- Each window can have a border with a selectable color
- Uploadable and freely positionable graphic logo support
- Intuitive and easy adjustment of window size, position and settings in multi-window modes via the WebGUI
- Per-input EDID management with internal or external EDID options
- Controllable via front panel buttons, WebGUI, Telnet, and RS-232

APPLICATIONS

- Entertainment Room & Home Theater
- Show Room & Demo Room
- Lecture Room & Hall Presentation
- Public Commercial Display

SYSTEM REQUIREMENTS

- HDMI source equipment such as media players, video game consoles or set-top boxes.
- HDMI receiving equipment such as HDTVs, monitors or audio amplifiers.

SPECIFICATIONS

- **HDMI Bandwidth: 18Gbps**
- **Input Ports:** (4) HDMI (Type-A)
- **Output Ports:** (2) HDMI (Type-A)
- **Control Ports:**
 - RS-232 (3.5mm)
 - IP Control (RJ-45)
- **Service Port:** USB 2.0 (Type A)
- **Baud Rate:** 19200
- **Power Supply:** 24V/2.7A DC (US/EU standards, CE/FCC/UL certified)
- **ESD Protection (HBM):**
 - $\pm 8\text{kV}$ (Air Discharge)
 - $\pm 4\text{kV}$ (Contact Discharge)
- **Dimensions (WxHxD):** 9.1 x 1 x 6.2 in (231.5x25x158mm) [Case Only] / 9.1 x 1 x 6.3 in (231.5x25x161mm) [All Inclusive]
- **Weight:** 2.1 lb / 968g
- **Chassis Material:** Metal (Steel)
- **Chassis 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:** 15.3W

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

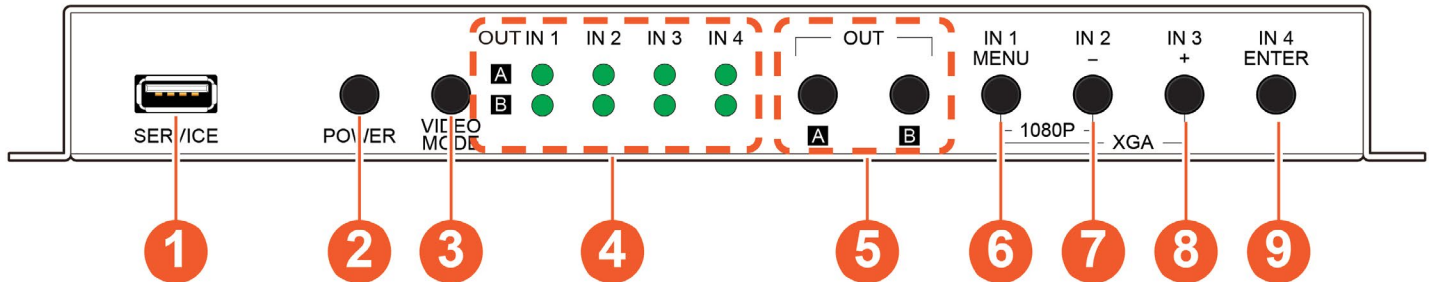
CABLE SPECIFICATIONS

Cable Length	1080p		4K30	4K60
	8bit	12bit	(4:4:4) 8bit	(4:4:4) 8bit
High Speed HDMI Cable				
HDMI Input	49 ft / 15M	33 ft / 10M	16 ft / 5M	10 ft / 3M
HDMI Output	49 ft / 15M	33 ft / 10M	16 ft / 5M	10 ft / 3M

Bandwidth Category Examples:

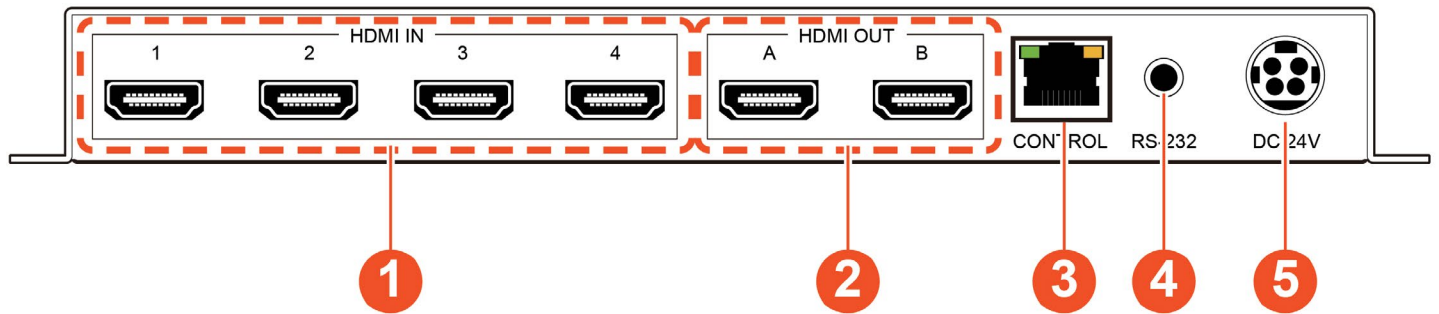
- 1080p (FHD Video)
 - Up to 1080p@60Hz, 12bit color
 - Data rates lower than 5.3Gbps or below 225MHz TMDS clock
- 4K30 (4K UHD Video)
 - 4K@24/25/30Hz & 4K@50/60Hz (4:2:0), 8bit color
 - Data rates higher than 5.3Gbps or above 225MHz TMDS clock but below 10.2Gbps
- 4K60 (4K UHD+ Video)
 - 4K@50/60Hz (4:4:4, 8bit)
 - 4K@50/60Hz (4:2:0, 10bit HDR)
 - Data rates higher than 10.2Gbps

FRONT PANEL



- 1 SERVICE PORT:** This port is reserved for firmware update and user EDID/logo upload use only.
- 2 POWER LED & BUTTON:** Press this button to power the unit on (green LED) or place it into stand-by mode (red LED).
Note: Ethernet and RS-232 remain active when the unit is in stand-by mode.
- 3 VIDEO MODE BUTTON:** Press this button to sequentially switch the unit's operational mode between Matrix, PiP, PoP, and Quad.
- 4 OUT A~B/IN 1~4 LED ARRAY:** In Matrix mode, these LED's indicate the currently selected sources (IN 1~4) routed to each of the (2) outputs (OUT A~B). When the unit is in a multi-windowing mode (PiP/PoP/Quad/Preset) all LEDs will be illuminated simultaneously.
Note: When source selection is active the associated output's LED(s) will blink.
- 5 OUT A/B BUTTONS:** In Matrix mode, either of these buttons to activate/ deactivate discrete source selection for the associated output. In multiwindowing modes (PiP/PoP/Quad/Preset) either button will activate/ deactivate sequential source selection for the (4) windows.
Note: These buttons only activate/deactivate the ability to change sources. Actual source selection is accomplished using the IN 1~4 buttons.
- 6 IN 1/MENU BUTTON:** When not in source selection mode, press to enter the OSD menu, or to back out from menu items. When source selection is active, pressing this button will either select input 1 (Matrix mode) or sequentially switch through all (4) inputs for window 1 (PiP/PoP/Quad/Preset modes).
Note: Pressing "MENU" and "+" together will reset the output resolution to XGA (1024x768@60Hz). Pressing "MENU" and "-" together will reset the output resolution to 1080p@60Hz.
- 7 IN 2/- (MINUS) BUTTON:** When not in source selection mode, press to move down or adjust selections within OSD menus. When source selection is active, pressing this button will either select input 2 (Matrix mode) or sequentially switch through all (4) inputs for window 2 (PiP/PoP/Quad/Preset modes).
- 8 IN 3/+ (PLUS) BUTTON:** When not in source selection mode, press to move up or adjust selections within OSD menus. When source selection is active, pressing this button will either select input 3 (Matrix mode) or sequentially switch through all (4) inputs for window 3 (PiP/PoP/Quad/Preset modes).
- 9 IN 4/ENTER BUTTON:** When not in source selection mode, press to confirm a selection within the OSD or to go deeper into a menu item. When source selection is active, pressing this button will either select input 4 (Matrix mode) or sequentially switch through all (4) inputs for window 4 (PiP/PoP/Quad/Preset modes).

BACK PANEL



① HDMI IN 1~4 PORTS: Connect to HDMI source equipment such as media players, game consoles, or set-top boxes.

Note: Audio support on inputs 3~4 is limited to 2 channel LPCM.

② HDMI OUT A~B PORTS: Connect to HDMI TVs, monitors, or amplifiers for digital video and audio output.

③ CONTROL PORT: Connect directly, or through a network switch, to your PC/laptop to control the unit via Telnet/WebGUI.

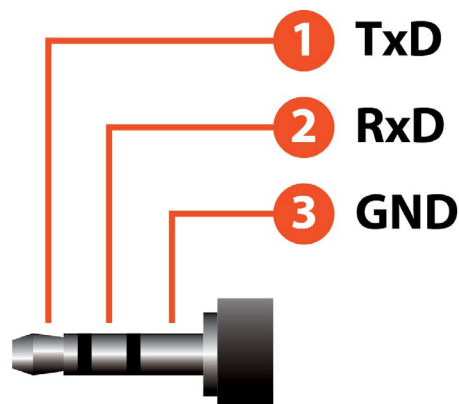
④ RS-232 PORT: Connect directly to a PC, laptop, or other serial control device with a 3.5mm adapter cable to send RS-232 commands to control the unit.

⑤ DC 24V PORT: Plug the 24V DC power adapter into this port and connect it to an AC wall outlet for power.

RS-232 PINOUT & DEFAULTS

SERIAL PORT DEFAULT SETTINGS	
BAUD RATE	19200
Data Bits	8
Parity Bits	None
Stop Bits	1
Flow Control	None

3.5mm to DE-9
Adapter Cable



TELNET CONTROL

Before attempting to use Telnet control, please ensure that both the unit and the PC are connected to the same active networks.

TO ACCESS THE COMMAND LINE INTERFACE (CLI)	
Windows 7	Click START , type “cmd” in the search field and press ENTER .
Windows 10	<ol style="list-style-type: none"> 1. Open “Control Panel”. 2. Open “Programs and Features”. 3. Select the “Turn Windows features on or off” option. 4. Check the “Telnet Client” box. 5. Click “OK”. A box will appear that says “Windows Features” and “Searching for required files”. When complete, the Telnet client should be installed in Windows.
Mac OS X	Click Go > Applications > Utilities > Terminal .

Once in the Command Line Interface (CLI) type “**telnet**” followed by the IP address of the unit (and the port number if it is non-standard) and then hit “**Enter**”. This will connect us to the unit we wish to control.

```
Microsoft Windows [Version 6.1.7601]
Copyright (c) 2009 Microsoft Corporation. All rights reserved.

C:\Users\Administrator>telnet 192.168.1.50 23
```

Note 1: If the IP address is changed then the IP address required for Telnet access will also change accordingly.

Note 2: The default IP address is 192.168.1.50.

SERIAL & TELNET COMMANDS

COMMAND	DESCRIPTION
HELP ↵	Show the full command list.
HELP N1 ↵	Show details about the specified command. N1 = {Command}
? ↵	Show the full command list.
? N1 ↵	Show details about the specified command. N1 = {Command}
GET FW VER ↵	Show the unit's current firmware version.
GET COMMAND VER ↵	Show the unit's current command version.
GET MAC ADDR ↵	Show the unit's MAC address.
GET MODEL NAME ↵	Show the unit's model name.
GET MODEL TYPE ↵	Show the unit's product type.
SET FEEDBACK BROADCAST N1 ↵	Enable or disable the broadcast of console command feedback. Available values for N1: ON [Enabled] OFF [Disabled]
GET FEEDBACK BROADCAST ↵	Show the current console command feedback broadcast state.
SET IP MODE N1 ↵	Set the IP address assignment mode. Available values for N1: STATIC [Static IP mode] DHCP [DHCP mode]
GET IP MODE ↵	Show the current IP address assignment mode.
GET IPCONFIG ↵	Show the unit's current IP configuration information.
GET IPADDR ↵	Show the unit's current IP address.
GET NETMASK ↵	Show the unit's current netmask.
GET GATEWAY ↵	Show the unit's current gateway address.
SET STATIC IPADDR N1 ↵	Set the unit's static IP address. N1 = X.X.X.X [X = 0~255, IP address]
GET STATIC IPADDR ↵	Show the unit's static IP address.
SET STATIC NETMASK N1 ↵	Set the unit's static IP address. N1 = X.X.X.X [X = 0~255, Netmask]
GET STATIC NETMASK ↵	Show the unit's static netmask.
SET STATIC GATEWAY N1 ↵	Set the unit's static IP address. N1 = X.X.X.X [X = 0~255, Gateway address]
GET STATIC GATEWAY ↵	Show the unit's static gateway address.
SET WEBGUI USERNAME N1 ↵	Set the WebGUI login username. N1 = {Username} [16 characters max]
GET WEBGUI USERNAME ↵	Show the current WebGUI login username.
SET WEBGUI PASSWORD N1 ↵	Set the WebGUI login password. N1 = {Password} [16 characters max]
GET WEBGUI PASSWORD ↵	Show the current WebGUI login password.
SET WEBGUI LOGIN TIMEOUT N1 ↵	Set the WebGUI inactivity timeout value. N1 = 0~240 [Minutes]

COMMAND	DESCRIPTION
GET WEBGUI LOGIN TIMEOUT ↵	Show the current WebGUI inactivity timeout value.
SET TELNET LOGIN N1 ↵	Enable or disable allowing Telnet logins. Available values for N1 : ON [Enabled] OFF [Disabled]
GET TELNET LOGIN ↵	Show the current state of Telnet login allowance.
SET TELNET USERNAME N1 ↵	Set the Telnet login username. N1 = {Username} [16 characters max]
GET TELNET USERNAME ↵	Show the current Telnet login username.
SET TELNET PASSWORD N1 ↵	Set the Telnet login password. N1 = {Password} [16 characters max]
GET TELNET PASSWORD ↵	Show the unit's Telnet access port.
SET WINDOW LAYOUT MODE N1 ↵	Set the window layout mode. Available values for N1 : 0 [Matrix mode] 1 [PiP mode] 2 [PoP mode] 3 [Quad mode] 4 [Preset 1] 5 [Preset 2] 6 [Preset 3] 7 [Preset 4]
GET WINDOW LAYOUT MODE ↵	Show the window current layout mode.
SET WINDOW N1 ROUTE N2 ↵	Set the input to route to the specified window. N1 = 1~4 [Window number] N2 = 1~4 [Input port] <i>Note: Valid in multi-windowing modes only.</i>
GET WINDOW N1 ROUTE ↵	Show the input currently routed to the specified window. N1 = 1~4 [Window number] <i>Note: Valid in multi-windowing modes only.</i>
SET OUT N1 ROUTE N2 ↵	Route the specified input to the specified output. N1 = A~B [Output port] N2 = 1~4 [Input port] <i>Note: Valid in matrix mode only.</i>
GET OUT N1 ROUTE ↵	Show the current input routed to the specified output. N1 = A~B [Output port] <i>Note: Valid in matrix mode only.</i>
SET WINDOW N1 DISPLAY N2 ↵	Enable or disable the specified window. N1 = 1~4 [Window number] Available values for N2 : ON [Enabled] OFF [Disabled] <i>Note: Valid in multi-windowing modes only.</i>
GET WINDOW N1 DISPLAY ↵	Show the visibility status of the specified window, N1 = 1~4 [Window number] <i>Note: Valid in multi-windowing modes only.</i>
SET WINDOW N1 HPOSITION N2 ↵	Set the horizontal position of the specified window. N1 = 1~4 [Window number] N2 = 0~{Max res} [Horizontal size] <i>Note: Valid in multi-windowing modes only.</i>
GET WINDOW N1 HPOSITION ↵	Show the current horizontal position of the specified window. N1 = 1~4 [Window number] <i>Note: Valid in multi-windowing modes only.</i>

COMMAND	DESCRIPTION
SET WINDOW N1 VPOSITION N2 ↵	Set the vertical position of the specified window. N1 = 1~4 [Window number] N1 = 0~{Max res} [Vertical size] <i>Note: Valid in multi-windowing modes only.</i>
GET WINDOW N1 VPOSITION ↵	Show the current vertical position of the specified window. N1 = 1~4 [Window number] <i>Note: Valid in multi-windowing modes only.</i>
SET WINDOW N1 HSIZE N2 ↵	Set the horizontal size of the specified window. N1 = 1~4 [Window number] N1 = 1~{Max res} [Horizontal size] <i>Note: Valid in multi-windowing modes only.</i>
GET WINDOW N1 HSIZE ↵	Show the current horizontal size of the specified window. N1 = 1~4 [Window number] <i>Note: Valid in multi-windowing modes only.</i>
SET WINDOW N1 VSIZE N2 ↵	Set the vertical size of the specified window. N1 = 1~4 [Window number] N1 = 1~{Max res} [Vertical size] <i>Note: Valid in multi-windowing modes only.</i>
GET WINDOW N1 VSIZE ↵	Show the current vertical size of the specified window. N1 = 1~4 [Window number] <i>Note: Valid in multi-windowing modes only.</i>
SET WINDOW N1 PRIORITY N2 ↵	Set the priority of the specified window. N1 = 1~4 [Window number] N1 = 1~4 [Priority] <i>Note: Valid in multi-windowing modes only.</i>
GET WINDOW N1 PRIORITY ↵	Show the current priority of the specified window. N1 = 1~4 [Window number] <i>Note: Valid in multi-windowing modes only.</i>
SET WINDOW N1 ASPECT N2 ↵	Set the aspect of the specified window. N1 = 1~4 [Window number] Available values for N2: 1 [Full] 2 [16:9] 3 [16:10] 4 [4:3] 5 [Best Fit] 6 [User]
GET WINDOW N1 ASPECT ↵	Show the current aspect of the specified window. N1 = 1~4 [Window number]
SET WINDOW N1 MIRROR N2 ↵	Set the mirror mode of the specified window. N1 = 1~4 [Window number] Available values for N2: ON [Enabled] OFF [Disabled]
GET WINDOW N1 MIRROR ↵	Show the current mirror mode of the specified window. N1 = 1~4 [Window number]
SET WINDOW N1 BORDER N2 ↵	Set the border mode of the specified window. N1 = 1~4 [Window number] Available values for N2: ON [Enabled] OFF [Disabled]
GET WINDOW N1 BORDER ↵	Show the current border mode of the specified window.

COMMAND	DESCRIPTION
SET WINDOW N1 BORDER COLOR N2 ↵	Set the border color of the specified window. N1 = 1~4 [Window number] Available values for N2 : 1 [Black] 7 [Cyan] 2 [Red] 8 [White] 3 [Green] 9 [Dark Red] 4 [Blue] 10 [Dark Green] 5 [Yellow] 11 [Dark Blue] 6 [Magenta] 12 [Dark Yellow] 13 [Dark Magenta] 14 [Dark Cyan] 15 [Gray]
GET WINDOW N1 BORDER COLOR ↵	Show the current border color of the specified window. N1 = 1~4 [Window number]
SET WINDOW N1 RESET ↵	Reset the settings of the specified window N1 = 1~4 [Window number]
SET IN N1 CONTRAST N2 ↵	Set the contrast level of the specified input. N1 = 1~4 [Input port] N2 = 0~100 [Contrast level]
GET IN N1 CONTRAST ↵	Show the current contrast level of the specified input. N1 = 1~4 [Input port]
SET IN N1 BRIGHTNESS N2 ↵	Set the brightness level of the specified input. N1 = 1~4 [Input port] N2 = 0~100 [Brightness level]
GET IN N1 BRIGHTNESS ↵	Show the current brightness level of the specified input. N1 = 1~4 [Input port]
SET IN N1 SATURATION N2 ↵	Set the saturation level of the specified input. N1 = 1~4 [Input port] N2 = 0~100 [Saturation level]
GET IN N1 SATURATION ↵	Show the current saturation level of the specified input. N1 = 1~4 [Input port]
SET IN N1 HUE N2 ↵	Set the hue value of the specified input. N1 = 1~4 [Input port] N2 = 0~100 [Hue value]
GET IN N1 HUE ↵	Show the current hue value of the specified input. N1 = 1~4 [Input port]
SET IN N1 SHARPNESS H N2 ↵	Set the horizontal sharpness level of the specified input. N1 = 1~4 [Input port] N2 = 0~20 [Horizontal sharpness level]
GET IN N1 SHARPNESS H ↵	Show the current horizontal sharpness level of the specified input. N1 = 1~4 [Input port]
SET IN N1 SHARPNESS V N2 ↵	Set the vertical sharpness level of the specified input. N1 = 1~4 [Input port] N2 = 0~20 [Vertical sharpness level]
GET IN N1 SHARPNESS V ↵	Show the current vertical sharpness level of the specified input. N1 = 1~4 [Input port]
SET IN N1 PICTURE RESET ↵	Set the picture settings reset. N1 = 1~4 [Input port]
SET AUDIO OUT N1 MUTE N2 ↵	Enable or disable muting the specified audio output. N1 = A~B [Output port] Available values for N2 : ON [Mute] OFF [Unmute]

COMMAND	DESCRIPTION			
SET AUDIO OUT N1 ROUTE N2 ↵	Route the specified audio source to the specified audio output. N1 = A~B [Output port] Available values for N2 :	1 [Input 1] 2 [Input 2] 3 [Input 3] 4 [Input 4] 5 [Window 1]	6 [Window 2] 7 [Window 3] 8 [Window 4]	
GET AUDIO OUT N1 ROUTE ↵	Show the current audio source routed to the specified audio output. N1 = A~B [Output port]			
SET ALL IN EDID MODE N1 ↵	Select the EDID management mode to use (All or Independent) for all inputs. Available values for N1 : 1 [All mode] 2 [Independent mode]			
GET ALL IN EDID MODE ↵	Show the current EDID management mode used by all inputs.			
SET ALL IN EDID N1 ↵	Set the EDID to use when the “All” EDID mode is active. Available values for N1 : 1 [1080p60 2-Channel]	2 [4Kp30 2-Channel] 3 [4Kp60 2-Channel] 7 [User 1] 8 [User 2] 9 [User 3]	10 [User 4] 15 [Sink A] 16 [Sink B]	
GET ALL IN EDID ↵	Show the current EDID used by the “All” EDID mode.			
SET IN N1 EDID N2 ↵	Set the EDID to use on the specified input. Available values for N1 : 1 [1080p60 2-Channel]	2 [4Kp30 2-Channel] 3 [4Kp60 2-Channel] 7 [User 1] 8 [User 2]	9 [User 3] 10 [User 4] 15 [Sink A] 16 [Sink B]	
GET IN N1 EDID ↵	Show the EDID currently being used on the specified input. N1 = 1~4 [Input port]			
SET USER EDID N1 UPDATE ↵	Upload a new EDID for use as the specified User EDID. N1 = 1~4 [User EDID number]			
SET IN N1 HDCP MODE N2 ↵	Set the HDCP behavior of the specified input. N1 = 1~4 [Input port] Available values for N2 : 0 [HDCP off] 1 [Refer to Source] 2 [Refer to Display]			
GET IN N1 HDCP MODE ↵	Show the current HDCP behavior used by the specified input. N1 = 1~4 [Input port]			
SET OUT A TIMING N1 ↵	Set the output resolution to use for both outputs. Available values for N1 : 0 [640x480p59] 1 [480p60] 2 [576p50] 3 [800x600p60] 4 [848x480p60] 5 [1024x768p60] 6 [1280x720p50] 7 [1280x720p60] 8 [1280x768p60] 9 [1280x800p60] 10 [1280x960p60]	11 [1280x1024p60] 12 [1360x768p60] 13 [1366x768p60] 14 [1400x1050p60] 15 [1440x900p60] 16 [1600x900p60rb] 17 [1600x1200p60] 18 [1680x1050p60] 19 [1920x1080p24] 20 [1920x1080p25] 21 [1920x1080p30] 22 [1920x1080p50] 24 [1920x1200rb] 25 [2048x1152rb]	26 [3840x2160p24] 27 [3840x2160p25] 28 [3840x2160p30] 29 [4K p24 DCI] 30 [4K p25 DCI] 31 [4K p30 DCI] 32 [4K p50 DCI] 33 [4K p59 DCI] 34 [4K p60 DCI] 35 [3840x2160p50] 36 [3840x2160p59] 37 [3840x2160p60] 38 [Native OUT A] 39 [Native OUT B]	
GET OUT A TIMING ↵	Show the current resolution used by both outputs.			

COMMAND	DESCRIPTION
SET OUT A OSD POSITION N1 ↵	Set the OSD menu location. Available values for N1 : 0 [Top Left] 1 [Top Right] 2 [Bottom Right] 3 [Bottom Left]
GET OUT A OSD POSITION ↵	Show the current OSD menu location.
SET OUT A OSD TIMEOUT N1 ↵	Set the OSD menu's timeout value (in seconds). Available values for N1 : OFF [Disabled] 5~60 [Timeout in seconds]
GET OUT A OSD TIMEOUT ↵	Show the current OSD menu's timeout value.
SET OUT A OSD INFO DISPLAY N1 ↵	Enable or disable the info OSD. Available values for N1 : ON [Enabled] OFF [Disabled]
GET OUT A OSD INFO DISPLAY ↵	Show the current info OSD state.
SET OUT A OSD INFO TIMEOUT N1 ↵	Set the OSD info's timeout value (in seconds). Available values for N1 : OFF [Disabled] 5~60 [Timeout in seconds]
GET OUT A OSD INFO TIMEOUT ↵	Show the current OSD info's timeout value.
SET OUT A OSD TRANSPARENCY N1 ↵	Set the transparency level of the OSD. N1 = 0~10 [Transparency level]
SET OUT A OSD BACKGROUND COLOR N1 ↵	Set the color of the background of the OSD banner. Available values for N1 : 0 [Black] 1 [Gray] 2 [Blue]
GET OUT A OSD BACKGROUND COLOR ↵	Show the current color of the background of the OSD banner on the specified output.
SET OUT A OSD LOGO DISPLAY N1 ↵	Enable or disable the graphical logo overlay. Available values for N1 : ON [Enabled] OFF [Disabled]
GET OUT A OSD LOGO DISPLAY ↵	Show the current state of the graphical logo overlay.
SET OUT A OSD LOGO HPOSITION N1 ↵	Set the horizontal position of the graphical logo overlay. N1 = 0~100 [Horizontal position]
GET OUT A OSD LOGO HPOSITION ↵	Show the current horizontal position of the graphical logo overlay.
SET OUT A OSD LOGO VPOSITION N1 ↵	Set the vertical position of the graphical logo overlay. N1 = 0~100 [Vertical position]
GET OUT A OSD LOGO VPOSITION ↵	Show the current vertical position of the graphical logo overlay.
SET OSD LOGO DEFAULT ↵	Resets the logo and installs a default test image.
SET OSD LOGO UPDATE ↵	Initiates the logo update process via USB.
SET SAVE PRESET N1 ↵	Saves the current unit's settings to the specified preset. N1 = 1~4 [Preset number]

COMMAND	DESCRIPTION
SET AUTO SYNC OFF N1 ↵	<div> <div> Enable or disable the Auto Sync Off function and set the timeout length. Available values for N1: 0 [Always on] 1 [5 seconds] 2 [10 seconds] 3 [15 seconds] 4 [30 seconds] </div> <div> 5 [1 minutes] 6 [1.5 minutes] 7 [2 minutes] 8 [2.5 minutes] 9 [3 minutes] 10 [5 minutes] 11 [10 minutes] </div> </div>
GET AUTO SYNC OFF ↵	Show the current Auto Sync Off settings.
SET FIRMWARE UPDATE ↵	Initiates the firmware update process via USB.
SET FACTORY USER EDID DEFAULT ↵	Restore the unit's User EDIDs to their factory default settings.
SET FACTORY IPCONFIG DEFAULT ↵	Reset the unit's network settings to the factory defaults.
SET FACTORY DEFAULT ↵	Restore the unit's settings, except for User EDIDs, to the their factory default settings.

Note: Commands will not be executed unless followed by a carriage return. Commands are **NOT** case-sensitive. 6.6 WebGUI Control

OSD MENU

MAIN MENU
Video Mode
Window Layout
Picture
Audio
Input EDID
HDCP Mode
Output Resolution
OSD Settings
Logo Settings
Ethernet
Preset
Setup
Information

All functions of this unit can be controlled by using the OSD (On Screen Display) which is activated by pressing the **MENU** button on the front of the unit. Use the **+** (PLUS), **-** (MINUS), and **ENTER** buttons to navigate the OSD menu. Press the **MENU** button to back out from any menu item and then press it again to close the menu.

The individual functions of the OSD will be introduced in the following section. Items marked in **BOLD** are the factory default settings.

VIDEO MODE	
2ND LEVEL	3RD LEVEL
Video Mode	Matrix
	PiP
	PoP
	QUAD
	Preset 1
	Preset 2
	Preset 3
	Preset 4
PiP/PoP/Quad/Preset Mode	
WIN 1 Source	In 1~4 [1]
WIN 2 Source	In 1~4 [2]
WIN 3 Source	In 1~4 [3]
WIN 4 Source	In 1~4 [4]
Matrix Mode	
OUT A Source	In 1~4 [1]
OUT B Source	In 1~4 [2]

1. Video Mode: Select the preferred operation mode of the unit.

Note: Selecting some modes will limit available features.

2. WIN 1/2/3/4 Source: Select the source for the specified window in multiwindowing modes (PiP, PoP, Quad).

3. OUT A/B Source: Select the source for the specified HDMI output when in Matrix mode.

WINDOW LAYOUT (MATRIX MODE)	
2ND LEVEL	3RD LEVEL
Input Select	In 1~4 [1]
Aspect Ratio	FULL
	16:9
	16:10
	4:3
	Best Fit
Mirror	NO
	Yes
Border On/Off	On
	OFF
Border Color	Black
	Red
	GREEN
	Blue
	Yellow
	Magenta
	Cyan
	White
	Dark Red
	Dark Green
	Dark Blue
	Dark Yellow
	Dark Magenta
	Dark Cyan
	Gray
Window Reset	NO
	Yes

1. Input Select: Select the input to modify.

Note: All settings are individually saved, per-input.

2. Aspect Ratio: Select a fixed aspect ratio for the currently selected window. Selecting the **“Full”** aspect ratio will stretch the source to fill the output, regardless of original aspect. Selecting **“Best Fit”** will automatically set the ratio based on the window’s current source resolution.

3. Mirror: Selecting **“On”** will flip the currently selected input horizontally.

4. Border On/Off: Enables or disable the color border around the currently selected input.

5. Border Color: Select the color to use for the border of the currently selected input.

6. Window Reset: Reset the current input to its default settings.

WINDOW LAYOUT (PIP/POP/QUAD/PRESET MODES)	
2ND LEVEL	3RD LEVEL
Window Select	Win 1~4 [1]
Window On/Off	ON
	Off
Position X	0~Max H resolution
Position Y	0~Max V resolution
Size Width	1~Max H resolution
Size Height	1~Max V resolution
Priority	1~4 [4]
Aspect Ratio	FULL
	16:9
	16:10
	4:3
	Best Fit
	User
Mirror	NO
	Yes
Border On/Off	On
	OFF
Border Color	Black
	Red
	GREEN
	Blue
	Yellow
	Magenta
	Cyan
	White
	Dark Red
	Dark Green
	Dark Blue
	Dark Yellow
	Dark Magenta
	Dark Cyan
	Gray
Window Reset	NO
	Yes

1. Window Select: Select the window to modify.

Note: All settings are individually saved, per-window/per-mode.

2. Window On/Off: Enable or disable the currently selected window.

3. Position X/Y: Set the X and Y coordinate position of the upper left corner of the currently selected window.

4. Size Width/Height: Set the horizontal and vertical size of the currently selected window.

5. Priority: Select the layer priority of the currently selected window. Priority 1 is at the front and priority 4 is at the back.

6. Aspect Ratio: Select a fixed aspect ratio for the currently selected window. The aspect ratio will be based on the window's current height.

Selecting the "Full" aspect ratio will return the window to the current mode's default size and shape for that window. Selecting "Best Fit" will automatically set the ratio based on the window's current source resolution.

7. Mirror: Selecting "On" will flip the currently selected window horizontally.

8. Border On/Off: Enables or disable the color border around the currently selected window.

9. Border Color: Select the color to use for the border of the currently selected window.

10. Window Reset: Reset the current window to its default settings based on the currently selected mode.

PICTURE	
2ND LEVEL	3RD LEVEL
Input Select	IN 1
	In 2
	In 3
	In 4
	Best Fit
Contrast	0~100 [75]
Brightness	0~100 [50]
Saturation	0~100 [50]
Hue	0~100 [50]
Sharpness H	0~10 [10]
Sharpness V	0~10 [10]
Reset	NO
	Yes

1. Input Select: Select the input to modify.

2. Contrast: Set the overall contrast of the currently selected input.

3. Brightness: Set the overall brightness of the currently selected input.

4. Saturation: Set the overall saturation of the currently selected input.

5. Hue: Set the hue shift of the currently selected input.

6. Sharpness H/V: Set the amount of sharpness processing to apply to the currently selected input.

7. Reset: Reset the current input to its default settings.

AUDIO (MATRIX MODE)	
2ND LEVEL	3RD LEVEL
OUT A Source	WINDOW
	In 1
	In 2
	In 3
	In 4
OUT A Mute	On
	OFF
OUT B Source	WINDOW
	In 1
	In 2
	In 3
	In 4
OUT B Mute	On
	OFF

1. OUT A Source: Select the audio source to pair with video output A.

2. OUT A Mute: Enable or disable muting audio output A.

3. OUT B Source: Select the audio source to pair with video output B.

4. OUT B Mute: Enable or disable muting audio output B.

AUDIO (PIP/POP/QUAD/PRESET MODES)	
2ND LEVEL	3RD LEVEL
OUT A Source	WIN 1
	Win 2
	Win 3
	Win 4
	In 1
	In 2
	In 3
	In 4
OUT A Mute	On
	OFF
OUT B Source	WIN 1
	Win 2
	Win 3
	Win 4
	In 1
	In 2
	In 3
	In 4
OUT B Mute	On
	OFF

1. OUT A Source: Select the audio source to pair with video output A.

2. OUT A Mute: Enable or disable muting audio output A.

3. OUT B Source: Select the audio source to pair with video output B.

4. OUT B Mute: Select the audio source to pair with video output B.

INPUT EDID	
2ND LEVEL	3RD LEVEL
EDID Mode	ALL
	Independent
All EDID	1080p60 2CH
	4Kp30 2CH
	4Kp60 2CH
	Sink OUT A
	Sink OUT B
	User 1
	User 2
	User 3
	User 4
IN 1 EDID	Same as [All EDID]
IN 2 EDID	Same as [All EDID]
IN 3 EDID	Same as [All EDID]
IN 4 EDID	Same as [All EDID]
User 1 Update	NO
	Yes
User 2 Update	NO
	Yes
User 3 Update	NO
	Yes
User 4 Update	NO
	Yes

1. EDID Mode: Select how to assign EDIDs to the unit's inputs. Selecting **"Independent"** allows for a different EDID to be assigned to each input, selecting **"All"** allows for a single EDID to be assigned to all inputs.

2. All EDID: Select the EDID to assign to all inputs.

Note: Only available in the **"All"** EDID Mode.

3. In 1~4 EDID: Select the EDID to assign to the specified input.

Note: Only available in the **"Independent"** EDID Mode.

4. User 1~4 EDID: To update any of the unit's 4 User EDIDs via USB, select **"Yes"** next to the appropriate User EDID and then insert a USB stick containing the new EDID into the Service port. The upload will occur immediately.

Note: The USB stick must contain, in the root directory, a compatible and properly named (EDID_User_*.BIN) EDID file.

HDCP MODE	
2ND LEVEL	3RD LEVEL
In 1~4	HDCP Support Off
	Refer to Source
	REFER TO DISPLAY
OUT A	[Current HDCP status display]
OUT B	
Win 1	
Win 2	
Win 3	
Win 4	

1. In 1~4: Select the HDCP behavior for each input.

- HDCP Support Off:** Completely disables support for HDCP on that input.
- Refer to Source:** Makes the input port support the same HDCP version as required by the connected source.
- Refer to Display:** Makes the input support the HDCP version of the currently connected displays.

2. HDCP Status: Displays the current HDCP status of all sources and outputs.

OUTPUT RESOLUTION
2ND LEVEL
640x480p59
480p60
576p50
800x600p60
848x480p60
1024x768p60
1280x720p50
1280x720p60
1280x768p60
1280x800p60
1280x960p60
1280x1024p60
1360x768p60
1366x768p60

OUTPUT RESOLUTION
2ND LEVEL
1400x1050p60
1440x900p60
1600x900p60RB
1600x1200p60
1680x1050p60
1920x1080p24
1920x1080p25
1920x1080p30
1920x1080p50
1920x1080p60
1920x1200RB
2048x1152RB
3840x2160p24
3840x2160p25

OUTPUT RESOLUTION
2ND LEVEL
3840x2160p30
4K p24 (DCI)
4K p25 (DCI)
4K p30 (DCI)
4K p50 (DCI)
4K p59 (DCI)
4K p60 (DCI)
3840x2160p50
3840x2160p59
3840x2160p60
Native OUT A
Native OUT B

1. Output Resolution: Select the preferred video output resolution.

Note: Both outputs always share the same resolution selection.

OSD SETTINGS	
2ND LEVEL	3RD LEVEL
Menu Position	TOP LEFT
	Top Right
	Bottom Right
	Bottom Left
Menu Timeout	Off
	5~60 [10]
Info. Timeout	Off
	5~60 [5]
Info. Display	ON
	Off
Transparency	OFF
	1~10
Background	Black
	GRAY
	Blue

1. Menu Position: Set the position of the OSD menu on the output.

2. Menu Timeout: Set the length of time, in seconds, that the OSD menu will continue to be displayed if there is no user input, or disable the timeout completely.

3. Info. Timeout: Set the length of time, in seconds, that the informational OSD will be displayed after a signal or source change, or disable the timeout completely.

4. Info. Display: Enable or disable the informational OSD.

5. Transparency: Set the transparency level of the background of the OSD menu.

6. Background: Set the color of the background of the OSD menu.

LOGO SETTINGS	
2ND LEVEL	3RD LEVEL
Logo On/Off	On
	OFF
Position X	0~100 [10]
Position Y	0~100 [10]
Load Default Logo	NO
	Yes
Logo Update	NO
	Yes

1. Logo On/Off: Enable or disable displaying the logo graphic.

2. Position X/Y: Sets the position of the logo's upper left corner, within the output. The position values are a relative percentage of the available output resolution.

3. Load Default Logo: Selecting yes will reset the logo and install a default test image.

Note: The reset process can take a few moments. Progress information will be displayed on the OSD while the default logo is being installed. The unit will automatically reboot when it is finished.

4. Logo Update: To upload a graphic logo via USB, select "Yes" and then insert a USB stick containing the new logo graphic file (8bit *.BMP format, 960x540 max resolution) into the Service port. The upload will occur immediately.

Note: The USB stick must contain, in the root directory, a compatible and properly named (Logo_User_*.BMP) graphic file.

ETHERNET	
2ND LEVEL	3RD LEVEL
IP Mode	STATIC
	DHCP
Static IP Config	
IP Address	X.X.X.X [192.168.1.50]
Subnet Mask	X.X.X.X [255.255.255.0]
Gateway	X.X.X.X [192.168.1.254]
Link Status	
IP Mode	[Current IP Mode]
IP Address	[Current Network Info]
Subnet Mask	
Gateway	[Unit's MAC Address]
MAC Addr.	

1. IP Mode: Set the unit's IP address mode to Static or DHCP.

2. Static IP Config: When the unit is in Static IP mode the IP address, netmask and gateway addresses may be manually set here. Changes will occur immediately.

Note: Only editable in Static IP mode.

3. Link Status: Displays the unit's current IP configuration and the unit's MAC address.

PRESET	
2ND LEVEL	3RD LEVEL
Save	PRESET 1
	Preset 2
	Preset 3
	Preset 4
Recall	PRESET 1
	Preset 2
	Preset 3
	Preset 4

1. Save Preset 1~4: Select a preset and then press the "ENTER" button to store the unit's current video window configuration to the currently selected preset.

2. Recall Preset 1~4: Select a preset and then press the "ENTER" button to activate the currently selected preset.

SETUP	
2ND LEVEL	3RD LEVEL
Auto Sync Off	ALWAYS ON
	5 sec.
	10 sec.
	15 sec.
	30 sec.
	1 min.
	1.5 min.
	2 min.
	2.5 min.
	3 min.
	5 min.
	10 min.
Firmware Update	NO
	Yes
User EDID Reset	NO
	Yes
Factory Reset	NO
	Yes

1. Auto Sync Off: Set the amount of time to continue outputting sync with a black screen if there are no live sources and no operations have been executed on the unit. Setting this to **“Always On”** forces the unit to always output sync.

2. Firmware Update: To update the firmware via USB, select **“Yes”** and then insert a USB stick containing the new firmware into the Service port. The upload will occur immediately.

Note: The USB stick must contain, in the root directory, a compatible and properly named (*.BIN) firmware file.

3. User EDID Reset: Select **“Yes”** to reset the unit’s User EDIDs to their factory default states.

4. Factory Reset: Select **“Yes”** to reset the unit to its factory default state. After the reset is complete, the unit will reboot automatically.

PRESET	
2ND LEVEL	3RD LEVEL
IN 1	[Current Input Resolutions]
IN 2	
IN 3	
IN 4	
OUT	[Current Output Resolution]
Video Mode	[Current Mode]
Sink A Native	[Native resolutions as reported by EDID]
Sink B Native	
Firmware	[Current Firmware Versions]
RX3/RX4 Firmware	

1. Information: Shows the currently detected details for all inputs and both outputs as well as listing the status of a few critical system settings and relevant firmware versions.

WEBGUI CONTROL

DEVICE DISCOVERY:

Please obtain the “**Device Discovery**” software from our website A-Neuvideo.com and save it in a directory where you can easily find it. Connect the unit and your PC/Laptop to the same active network and execute the “**Device Discovery**” software. Click on “**Find Devices on Network**” and a list of devices connected to the local network will show up indicating their current IP address.

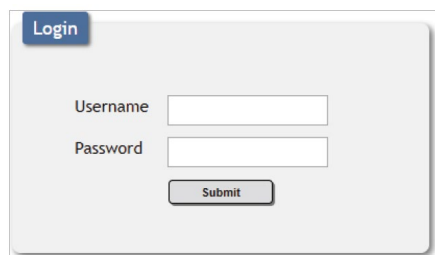
Note: The unit's default IP address is 192.168.1.50.

By clicking on one of the listed devices you will be presented with the network details of that particular device.

1. IP Mode: If you choose, you can alter the static IP network settings for the device, or switch the unit into DHCP mode to automatically obtain proper network settings from a local DHCP server. To switch to DHCP mode, please select DHCP from the IP mode drop-down, then click “**Save**” followed by “**Reboot**”.

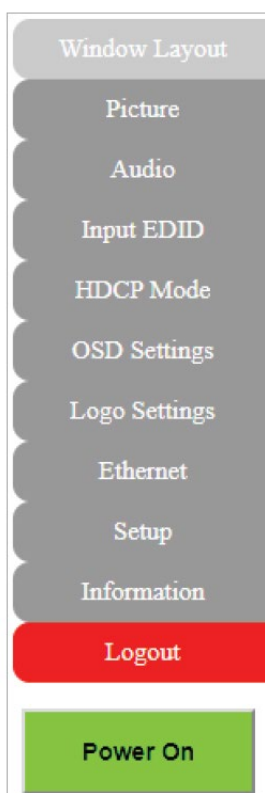
2. WebGUI Hotkey: Once you are satisfied with the network settings, you may use them to connect via Telnet or WebGUI. The network information window provides a convenient link to launch the WebGUI directly.

WEBGUI OVERVIEW:

The login screen features a blue 'Login' tab at the top left. Below it, there are two input fields: 'Username' and 'Password'. A 'Submit' button is located at the bottom right of the form area.

After connecting to the WebGUI's address in a web browser, the login screen will appear. Please enter the appropriate user name and password then click “**Submit**” to log in.

Note: The default user name and password is “**admin**”.

The window layout is a vertical sidebar. At the top is a 'Window Layout' header. Below it are several menu items: 'Picture', 'Audio', 'Input EDID', 'HDCP Mode', 'OSD Settings', 'Logo Settings', 'Ethernet', 'Setup', and 'Information'. These are followed by a red 'Logout' button and a green 'Power On' button at the bottom.

On the left side of the browser you will see the following menu tabs where all primary functions of the unit are controllable via the built in WebGUI. The individual functions will be introduced in the following sections.

Clicking the red “**Logout**” tab will automatically log the currently connected user out of the WebGUI and return to login page. Clicking on the “**Power**” button will toggle the unit's current power state between on (green) and stand-by (red).

UPPER TAB WINDOWS:

This upper section of the web interface is visible on every tab and provides control over the unit's operational mode, source selection, and output resolution as well as containing basic information about the currently connected source and display devices.

1. Source: This section displays the currently detected resolution for the sources connected to each input.

2. Display:

- **Resolution:** Use the dropdown to select the preferred output resolution for the unit.
Note: Both outputs will always share the same output resolution, even in Matrix mode.
- **Sink A/B Native:** Displays the native resolution of both connected displays as reported by their respective EDIDs.

3. Video Mode:

- **Video Mode:** Use the dropdown to select the unit's operational mode.
Available options are: Matrix, PiP, PoP, Quad, and Presets 1~4.
Note: Switching between video modes will cause the output to briefly go to black, but audio output will not be affected if the selected audio source is the same in both modes.
- **Win 1~4:** Select the video source to use in each window of a multiwindow mode (PiP/PoP/Quad/Preset).
Note: Only available when a multi-window mode is active.
- **Out A~B:** Select the video source for each output in Matrix mode.
Note: Only available when Matrix mode is active.

WINDOW LAYOUT TAB:

This tab provides control over the position, size, aspect, priority, and other settings of each window in multi-viewer modes. A graphical representation of the layout is also provided. When the unit is in Matrix mode, only a limited selection of controls are available.

Note: Only the information from the currently selected window/input is displayed. A window's position and size cannot exceed the current output resolution.

1. Selection: In multi-windowing modes, use the dropdown to select the window to modify. In Matrix mode select the input to modify.

Note: Changes made while a "Preset" video mode is selected will automatically be applied and saved to that preset.

2. Display: Enable or disable the currently selected window.

Note: Not available in Matrix mode.

3. Position X/Y: Set the X and Y coordinate position of the upper left corner of the currently selected window. Click on the **"Save"** button, after making changes, to make them active.

Note: Not available in Matrix mode.

4. Size Width/Height: Set the horizontal and vertical size of the currently selected window. Click on the **"Save"** button, after making changes, to make them active.

Note: Not available in Matrix mode.

5. Priority: Select the layer priority of the currently selected window. Priority 1 is at the front and priority 4 is at the back.

Note: Not available in Matrix mode.

6. Aspect Ratio: Use the dropdown to select a fixed aspect ratio for the currently selected window or input. Available options are: Full, 16:9, 16:10, 4:3, Best Fit, and User. In multi-windowing modes the aspect ratio will be based on the window's current height. Selecting the **"Full"** aspect ratio will return the window to the current mode's default size and shape for that window. Selecting **"Best Fit"** will automatically set the ratio based on the window's current source resolution.

Note: The **"User"** aspect ratio is not available in Matrix mode.

7. Mirror: Turning this switch on will flip the currently selected window/input horizontally.

8. Border: This switch enables or disables the color border around the currently selected window or input.

9. Border Color: Use the dropdown to select the color to use for the border of the currently selected window/input. Available colors are: Black, red, green, blue, yellow, magenta, cyan, white, dark red, dark green, dark blue, dark yellow, dark magenta, dark cyan, gray.

10. Reset: Reset the current window/input to its default settings based on the currently selected mode.

11. Visual Layout Window: When in a multi-windowing mode, individual windows may be selected, moved and resized simply by clicking and dragging on them in the layout window. To select a window, click on it and the information will be displayed on the left. Click and drag the center of a window to reposition it. Click and drag the bottom right corner of a window to manually resize it. The results of a change will be displayed on the outputs as soon as the mouse button has been released.

Note: Not available in Matrix mode.

PICTURE TAB:

This tab provides controls over each input's contrast, brightness, saturation, hue, and sharpness levels.

Note: All picture settings are per-input and are mode-independent.

1. Input Select: Use the dropdown to select the input to modify.

2. Reset: Reset the current input to its default settings.

3. Contrast: This slider provides control over the overall contrast of the currently selected source video.

4. Brightness: This slider provides control over the overall brightness of the currently selected source video.

5. Saturation: This slider provides control over the overall saturation of the currently selected source video.

6. Hue: This slider provides control over the hue shift of the currently selected source video.

7. Sharpness H/V: These sliders provide control over the amount of sharpness processing to apply to the currently selected source video.

Note: Horizontal and vertical processing is independently controlled, providing finer control over the image quality.

AUDIO TAB

This tab provides control over the audio output behavior of the unit, including routing selection and muting.

Note: Due to Matrix mode only supporting a single **"window"**, changing modes between a multi-windowing mode and Matrix mode when an audio source is set to windows 2~4 will result in the source reverting to window 1.

1. OUT A Source: Use the dropdown to choose the audio source to pair with video output A.

- **IN 1~4:** Always use the audio from the specified input.
- **WIN 1~4:** Always use audio from the source currently displayed in the specified window.

Note: WIN 2~4 is not available as a source in Matrix mode.

2. OUT B Source: Use the dropdown to choose the audio source to pair with video output A.

- **IN 1~4:** Always use the audio from the specified input.
- **WIN 1~4:** Always use audio from the source currently displayed in the specified window.

Note: WIN 2~4 is not available as a source in Matrix mode.

3. OUT A Mute: Click the switch to toggle between muted and unmuted audio on output A.

4. OUT B Mute: Click the switch to toggle between muted and unmuted audio on output A.

INPUT EDID TAB

This unit provides the option of three standard EDIDs, two sink sourced EDIDs and four user uploaded EDIDs that can be assigned to all inputs at the same time, or to each input independently.

Note: In most cases, assigning a new EDID to an input will cause the affected input to briefly blink out while the source adapts to the new information.

1. EDID Mode: Use the dropdown to select how to assign EDIDs to the unit's inputs. Selecting **"Independent"** allows for a different EDID to be assigned to each input, selecting **"All"** allows for a single EDID to be assigned to all inputs.

2. All EDID: Select the EDID to assign to all inputs.

Note: Only available in **"All"** EDID Mode.

3. IN 1~4 EDID: Select the EDID to assign to the specified input.

Note: Only available in **"Independent"** EDID Mode.

4. User 1~4 Update: To update any of the unit's 4 User EDIDs, click the **"Choose File"** button to open the file selection window and then select the EDID file (*.bin format) located on your local PC. After selecting the file, click the **"Update"** button to begin the EDID upload process.

Note: In some rare cases it is possible for custom or external EDIDs to cause compatibility issues with certain sources. If this happens, it is recommended to switch to one of the 3 default EDIDs for maximum compatibility.

HDCP MODE TAB

This tab provides control over the HDCP settings for all inputs.

1. HDCP Mode Input 1~4: Use the dropdown to select the HDCP behavior for each input.

- **HDCP Support Off:** Completely disables support for HDCP on that input.
- **Refer to Source:** Makes the input port support the same HDCP version as required by the connected source.
- **Refer to Display:** Makes the input support the HDCP version of the currently connected displays.

OSD SETTINGS TAB

This tab provides control over the behavior of the OSD menu and informational display.

1. Menu Position: Use the dropdown to set the position of the OSD menu on the output. Available choices are: Top Left, Top Right, Bottom Right, and Bottom Left.

2. Menu Timeout: Set the length of time, in seconds, that the OSD menu will continue to be displayed if there is no user input, or disable the timeout completely.

3. Info. Timeout: Set the length of time, in seconds, that the informational OSD will be displayed after a signal or source change, or disable the timeout completely.

4. Info. Display: Enable or disable the informational OSD.

5. Menu Transparency: Set the transparency level of the background of the OSD menu with a range from Off (opaque) to 10 (mostly transparent).

6. Menu background: Set the color of the background of the OSD menu. Available choices are: Gray, Black, and Blue.

LOGO SETTINGS TAB

This tab provides control over the user uploaded logo graphic. Controls include positioning, an uploading a new logo directly from the WebGUI and an option to reset the logo to a built in default image that can be used for testing.

1. Display: Enable or disable displaying the logo graphic.

2. Reset: Resets the logo and installs a default test image.

Note: *The reset process can take a few moments. Progress information will be displayed on the OSD while the default logo is being installed. The*

unit will automatically reboot when it is finished.

3. Position X/Y: Sets the position of the logo's upper left corner, within the output. The position values are a relative percentage of the available output resolution.

4. Logo Update: To upload a graphic logo, please click the **"Choose File"** button to open the file selection window and then select the graphic logo file (8-bit *.bmp format, 960x540 max resolution) located on your local PC. After selecting the file, click the **"Update"** button to upload the logo to the unit.

Note: *The upload process can take a while, depending on the size of the logo. Progress information will be displayed on the OSD while the logo is being installed. The unit will automatically reboot when it is finished.*

ETHERNET TAB

This tab provides controls to change the network settings for the unit. You can manually set the IP address, netmask and gateway address in **"Static IP"** mode, or you can obtain an IP address automatically by enabling DHCP.

Note: *The unit's default Static IP address is 192.168.1.50. If the IP address is changed then the IP address required for WebGUI/Telnet access will also change accordingly.*

1. IP Mode: Click this button to toggle between the Static IP and DHCP modes. In DHCP mode, the unit will attempt to automatically obtain its IP configuration details from a local DHCP server. In Static mode the unit will use the manually assigned IP configuration information.

2. Static IP Config: When the unit is in Static IP mode the IP address, netmask and gateway addresses may be manually set here. Click **“Save”** to apply and use the newly entered address.

3. Link Status: Displays the unit's current IP configuration and the unit's MAC address.

SETUP TAB

Provides a way to update firmware and reset various sections within the unit. Control over the unit's Auto Sync Off feature, storing/recalling presets as well as configuring the WebGUI login settings is also provided here.

1. Preset Save: Select a preset from the dropdown list and then click the **“Save”** button to store the unit's current video window configuration to the currently selected preset.

2. Preset Recall: Select a preset from the dropdown list and then click the **“Recall”** button to activate the currently selected preset.

Note: this can also be achieved by selecting a Preset from the Video Mode dropdown at the top of the WebGUI.

3. Auto Sync Off: Sets the amount of time to continue outputting sync with a black screen if there are no live sources and no operations have been executed on the unit. Setting this to **“Always On”** forces the unit to always output sync.

4. Firmware Update: To update the unit's firmware, click the **“Choose File”** button to open the file selection window and then select the firmware update file (*.bin format) located on your local PC. After selecting the file, click the **“Upgrade”** button to begin the firmware update process. After the upgrade is complete, the unit will reboot automatically.

5. User EDID Reset: Press this button to reset the unit's User EDIDs to their factory default states.

6. Factory Reset: Press this button to reset the unit to its factory default state. After the reset is complete, the unit will reboot automatically.

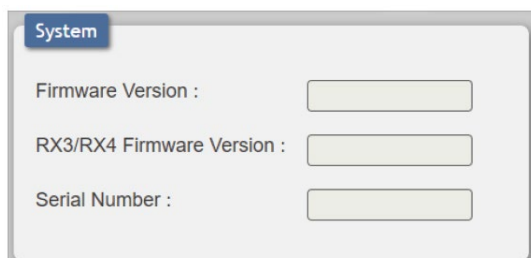
7. Web Login Settings: WebGUI login settings can be set here.

- **Username/Password:** To change the login username and password, enter the new information in the spaces provided and press **“Save”**.

Note: The default user name and password is **“admin”**.

- **Timeout:** Set the length of time to wait, in minutes, before logging out a user due to inactivity. Setting this to **“0”** disables the timeout.

INFORMATION TAB



System

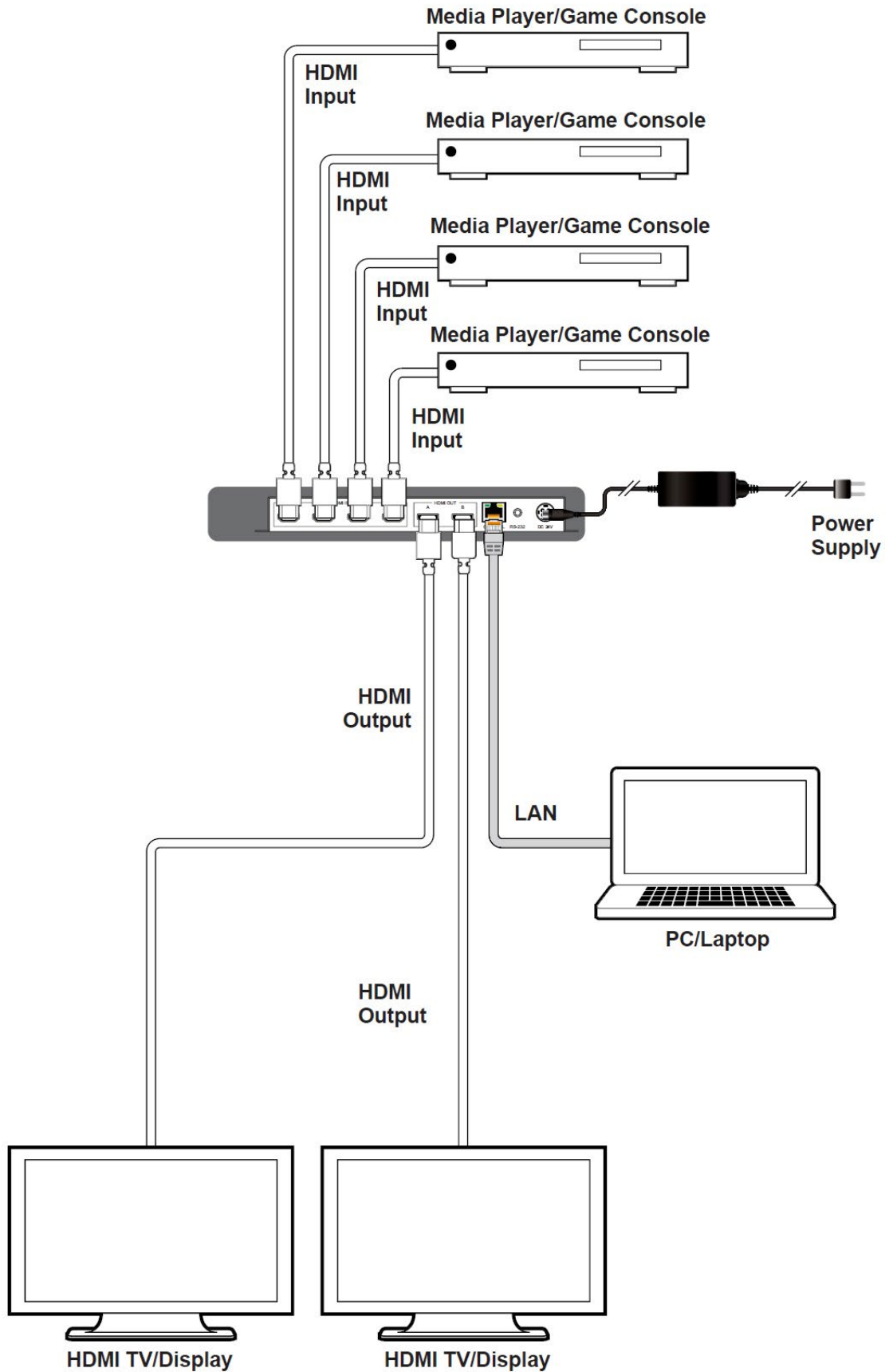
Firmware Version :

RX3/RX4 Firmware Version :

Serial Number :

This tab displays the unit's serial number as well as the current firmware versions.

CONNECTION DIAGRAM



VIDEO SPECIFICATIONS

SUPPORTED RESOLUTIONS (HZ)	INPUT	OUTPUT
	HDMI	HDMI
720x400p@70/85	✓	x
640x480p@60/72/75/85	✓	60Hz
720x480i@60	✓	x
720x480p@60	✓	✓
720x576i@50	✓	x
720x576p@50	✓	✓
800x600p@56/60/72/75/85	✓	60Hz
848x480p@60	✓	x
1024x768p@60/70/75/85	✓	60Hz
1152x864p@75	✓	x
1280x720p@50/60	✓	✓
1280x768p@60/75/85	✓	60Hz
1280x800p@60/75/85	✓	60Hz
1280x960p@60/85	✓	60Hz
1280x1024p@60/75/85	✓	60Hz
1360x768p@60	✓	✓
1366x768p@60	✓	✓
1400x1050p@60	✓	✓
1440x900p@60/75	✓	60Hz
1600x900p@60RB	✓	✓

SUPPORTED RESOLUTIONS (HZ)	INPUT	OUTPUT
	HDMI	HDMI
1600x1200p@60	✓	✓
1680x1050p@60	✓	✓
1920x1080i@50/60	✓	x
1920x1080p@24/25/30	✓	✓
1920x1080p@50/60	✓	✓
1920x1200p@60RB	✓	✓
2560x1440p@60RB	✓	x
2560x1600p@60RB	✓	x
2048x1080p@24/25/30	✓	x
2048x1080p@50/60	✓	x
3840x2160p@24/25/30	✓	✓
3840x2160p@50/60 (4:2:0)	✓	x
3840x2160p@24, HDR10	x	x
3840x2160p@50/60 (4:2:0), HDR10	x	x
3840x2160p@50/60 (4:4:4)	✓	✓
4096x2160p@24/25/30	✓	✓
4096x2160p@50/60 (4:2:0)	✓	x
4096x2160p@24, HDR10	x	x
4096x2160p@50/60 (4:2:0), HDR10	x	x
4096x2160p@50 (4:4:4)	✓	✓

DIGITAL AUDIO

HDMI INPUTS 1~2/ ALL OUTPUTS	
LPCM	
Max Channels	8 Channels
Sampling Rate (KHz)	32, 44.1, 48, 88.2, 96, 176.4, 192
BITSTREAM	
Supported Formats	Standard & High-Definition
HDMI INPUTS 3~4	
LPCM	
Max Channels	2 Channels
Sampling Rate (KHz)	48
BITSTREAM	
Supported Formats	None

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