





OR-44U-4K22

4 x 4 HDMI Matrix Switcher with USB Power Output (4K, HDCP2.2, HDMI2.0)



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.

REVISION HISTORY

VERSION NO.	DATE (DD/MM/YY)	SUMMARY OF CHANGE
RDV1	31/10/16	Preliminary Release

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1. INTRODUCTION

This 4K UHD 4 by 4 Matrix provides the ability to connect up to four 4K UHD HDMI sources to up to four 4K UHD HDMI displays and freely switch between them. This unit comes with full support for 18Gbps (600Mhz) resolutions up to, and including 4K@60Hz (4:4:4, 8-bit) as well as support for 48-bit Deep Color, HDR (High Dynamic Range), HD audio and other features defined by the HDMI 2.0 specification. With a comprehensive EDID management feature that includes the ability to select between built in default EDID, EDID copied from connected sink devices, as well as a configurable EDID, this matrix can solve many interconnectivity problems. This unit also features four USB ports which supply up to 5V/1A power for use with connected optical fiber or AOC fiber cable extenders. By using these specialized cables your HDMI content can be extended much further than would be possible with normal HDMI cables. The built in OSD has the ability to display user editable general information text so each output can display up to 2 lines of customized text on top of the video source in the color of your choice. This unit provides an intuitive set of front panel controls with an OSD as well as RS-232, telnet, WebGUI, and IR remote control options.

2. APPLICATIONS

- Smart Home Control
- Control Center
- Function Room
- Product Showroom
- Ballroom

3. PACKAGE CONTENTS

- Matrix unit x 1
- 24V/3.75A Adaptor with power cord x 1
- Remote control unit x 1 (CR-177)
- Rack ear set x 1
- IR Receiver x 1
- Operation manual x 1

4. PACKAGE CONTENTS

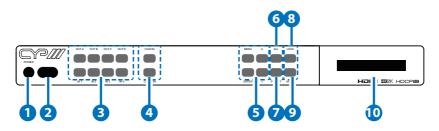
- HDMI source equipment such as media players, video game consoles or set-top boxes.
- HDMI receiving equipment such as HDTVs, monitors or audio amplifiers.
- The use of "Premium High Speed HDMI" cables is highly recommended.

5. FEATURES

- HDMI input and output with 18Gbps (600MHz) 4K UHD support
- DVI 1.0 compliant with the use of an HDMI-DVI adaptor
- HDCP 1.4 and 2.2 compliant
- Supports HD resolutions up to 3840x2160@60 Hz (YUV 4:4:4, 8-bit) & 4096x2160@60 Hz (YUV 4:4:4, 8-bit)
- Supports 48-bit Deep Color up to 1080p60
- Supports pass-through of LPCM 7.1, bitstream and HD bitstream audio formats
- Supports six internal EDIDs, four external EDIDs copied from connected devices, and four user provided EDIDs
- Four USB ports to supply 5V/1A power to optical fiber and AOC fiber extension cables
- OSD with user customizable information text
- Intuitive control interface including telnet, WebGUI, OSD, IR remote and RS-232
- Easy firmware update via USB thumb drive in field

6. OPERATION CONTROLS AND FUNCTIONS

6.1 Front Panel



1 Power: Press this button to power the unit on (green LED) or place it into stand-by mode (red LED).

- **2** IR Receiving Window: Accepts IR signals from the included IR remote for control of this unit only.
- 3 IN 1~4 & OUT A~D: Press the "OUT" keys (A~D) of the outputs you wish to route a source to (they will flash to indicate selection). Next, press the "IN" key of the input (1~4) you wish to route to the selected outputs. Finally, press "CONFIRM" to confirm your selection and execute the routing change.
- **CONFIRM:** Press this button to confirm newly made input/output routing selections.

CANCEL: Press this button to cancel newly made input/output/ preset routing selections before they have been confirmed.

5 MENU: Press to enter the LCD menu, or to back out from menu items.

ENTER: Press to confirm a selection within the LCD menu or to go deeper into a menu item.

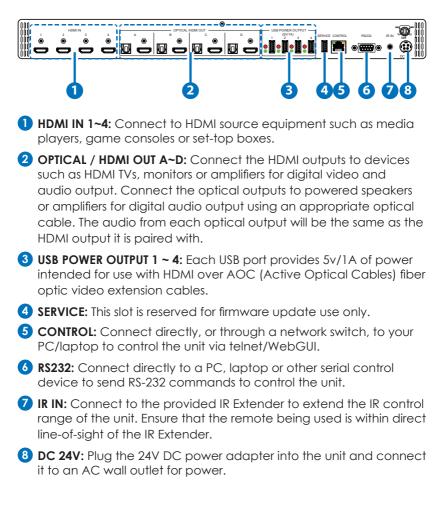
- / +: Press to move up and down or adjust selections within menus.
- 6 ALL: Press this button to select all outputs simultaneously for routing. Next, press the "IN" key of the input (1~4) you wish to route to all outputs. Finally, press "CONFIRM" to confirm your selection and execute the routing change.
- PRESET: Press to enter the preset recall menu in the LCD window. Press the "+/-" buttons followed by the "ENTER" button to select and activate the preferred preset.

8 LOCK: Press to lock all button functions on the front panel. Press and hold for 3 seconds to release the lock function. The LCD will display "Lock" when the function is active.

MUTE: The "MUTE" button functions as a blank audio/video source. To use it, follow the standard matrix routing instructions, but use the "MUTE" button as the input to blank out the selected outputs. When a "MUTE" input is in use it will show up as "M" within the routing display.

(1) LCD window: Displays the unit's menu, settings and information.

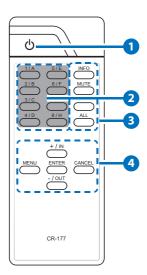
6.2 Rear Panel



6.3 Remote Control

- **1 POWER:** Press to power the unit on or place it into stand-by mode.
- 1/A ~ 4/D: Press these keys to configure the video routing. Press the "OUT" key followed by the key (A~D) of the outputs you wish to route a source to (they will flash to indicate selection). Next, press the "IN" key followed by the input (1~4) you wish to route to the selected outputs. Finally, press "ENTER" to confirm your selection and execute the routing change.

Note: Keys $5/E \sim 8/H$ have no function with this matrix.



3 ALL: Press this key to select all outputs

simultaneously for routing. Next, press the key of the input (1~4) you wish to route to all outputs. Finally, press "ENTER" to confirm your selection and execute the routing change.

MUTE: Press this key to mute video output. Press the key of the input (1~4) you wish to route then press mute key to mute video output.

INFO: Switches the information displayed on each output's OSD between the user customized text and the current video/Ethernet details.

PRESET: Press to enter the preset call menu in the LCD window. Press the "+/-" buttons followed by the "ENTER" button to select and activate the preferred preset.

a. MENU: Press to enter the LCD menu, or to back out from menu items.

b. ENTER: Press to confirm a selection within the LCD menu or to go deeper into a menu item.

c. CANCEL: Press to cancel newly made input/output/preset routing selections before they have been confirmed.

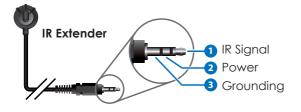
d. Plus (+) / IN: Press "+/IN" to navigate up within menus or to begin the selection of an input for routing.

e. Minus (-) / OUT: Press "-/OUT" to navigate down within menus or to begin the selection of outputs for routing.

6.4 LCD Menu Tree

1 st Level	2 nd Level
EDID	ln1 / ln2 / ln3 / ln 4 / ln All
Preset Setup	1/2/3/4
Network Status	Link (Valid) / Mode (Static/
	DHCP)/ IP/Mask/Gate/MAC
Network Setup	Mode: (Static/DHCP)
Static: IP/Mask/Gate	
Firmware	Version
Firmware Update	USB update
Factory Reset	Factory reset

6.5 IR Cable Assignments



6.6 RS-232 Protocol

MATRIX		
Pin Assignment		
1	NC	
2	TX	
3	RX	
4	NC	
5	GND	
6	NC	
7	NC	
8	NC	
9	NC	

REMOTE CONTROLLER		
Pin	Define TX / RX	
1	NC	
2	RX	
3	TX	
4	NC	
5	GND	
6	NC	
7	NC	
8	NC	
9	NC	

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

6.7 RS-232 Command

Command Name	Description	Description of parameter
?	Show descript of command.	? command
HELP	Show descript of command.	? command
eth_fadefault	All Ethernet configure set to factory default.	NONE
SIPMODE	Set Ethernet IP mode.	SIPMODE P P=Mode(STATIC/DHCP)
SETIP	Set Ethernet IP address, subnet mask, gateway.	SETIP P1 P2 P3 P1=IPADDRESS P2=NETMASK P3=GATEWAY (P1~P3)=X.X.X.X (X=0~255)
IPCONFIG	Display the cur- rent IP configu- ration	NONE
REBOOT	System reset	NONE
QUIT	Telnet QUIT	NONE
P0	Power off.	NONE
P1	Power on.	NONE
STORE	Store current I/O position	STORE P P=Port(1~4)
SHOW	Show current port's I/O posi- tion	STORE P P=Port(1~4)
PRESET	Preset the store I/O position	PRESET P P=Port(1~4)
NAME	Set Preset name	NAME NAME P1 P2 P1=Port(1~4) P2=Name(1~8 Charactors)
I	Set all outputs source	IP P=Input Port(1~4)
ST	Show firmware version	NONE

Command Name	Description	Description of parameter
RS	System Reset to A1,B2,C3,D4.	NONE
EM	Setting EDID mode.	EM P1 P2 P1=PORT(1~4) P2=(1-FHD2CH, 2-FHD- MCH, 3-4KUHD2CH, 4-4KUH- DMCH, 5-4KUHD+2CH, 6-4KUHD+MCH, 7-TXA,8-TXB, 9-TXC,10-TXD, 11-USER1, 12- USER2, 13-USER3, 14-USER4)
UPDATE	Update firmware by SERVICE USB port. note:Device will wating for the USB device plug in or power cycle to reboot.	NONE
A	Set output A source.	AP P=Input Port(1~4)
В	Set output B source.	BP P=Input Port (1~4)
С	Set output C source.	CP P=Input Port (1~4)
D	Set output D source.	DP P=Input Port (1~4)
АВ	Set output ABCD source at the same time.	ABP P=Input Port (1~4)
USEREDID	Set user EDID name.	USEREDID P1 P2 P1=Port(1~4) P2=Name(1~8 Characters)
FADEFAULT	All configure set to factory de- fault.	NONE
OSDON	OSD on.	OSDON P P=Output Port(1~4)

Command Name	Description	Description of parameter
OSDOFF	OSD off.	OSDOFF P P=Output Port(1~4)
OSDXY	Set OSD coordi- nate.	OSDXY P1 P2 P3 P1=Output Port(1~4) P2=x(1~1920) P3=y(1~1080)
OSDSTR	Set OSD string.	OSDSTR P1 P2 P3 P1=Output Port(1~4) P2=Line(1~2) P3=String(1~64 Charac- ters)
OSDFSIZE	Set OSD font size.	OSDFSIZE P1 P2 P1=Output Port(1~4) P2=Size(1~3)
OSDFCOLOR	Set OSD font color.	OSDFCOLOR P1 P2 P1=Output Port(1~4) P2=Font Color(1~9)
OSDBGCOLOR	Set OSD back- ground color.	OSDBGCOLOR P1 P2 P1=Output Port(1~4) P2=Background Color(1~9)
OSDTS	Set OSD back- ground transpar- ent level.	OSDTS P1 P2 P1=Output Port(1~4) P2=Transparent Level(1~8)
OSDINFO	Set OSD informa- tion on off.	OSDINFO P P=Action(ON/OFF)
ROSDINFO	Get OSD infor- mation status.	NONE
USBPWR	USB power on/ off.	USBPWR P1 P2 P1=Output Port(1~4) P2=Action(ON/OFF)

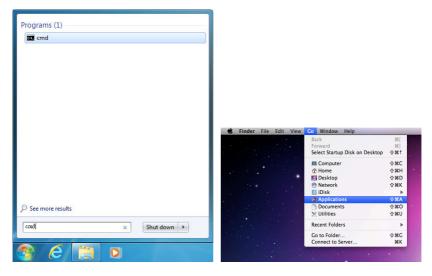
6.8 Telnet Control

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

To access Telnet in Windows 7, click on the "Start" menu and type "cmd" in the search field, then press "Enter".

Under Windows XP go to the "Start" menu, click on "Run", type "cmd" then press "Enter".

Under Mac OS X, go to Go \rightarrow Applications \rightarrow Utilities \rightarrow Terminal See below for reference.



Once in the CLI (Command Line Interface) type "telnet" followed by the IP address of the unit and "23", then hit "Enter".



This will connect us to the unit we wish to control. Type "help" to list the available commands.

Telnet 192.168.6.116		
Welcome to TELNET. ? ? HELP ETH_FADEFAULT		
SETIP SIPMODE IPCONFIG REBOOT		
REBUUI QUIT PO P1		
STORE SHOW PRESET		
NAME I ST		
RS Em UPDATE		
A B C		
D		-

6.9 WebGUI

Install the IP Discovery Tool:

(1) Please obtain the Device Discovery software from your authorized dealer and save it in a directory where you can easily find it.

Note: The unit's default IP address is 192.168.1.50

(2) 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.

	Find Devices on	n Network
Product Name Description	Address MAC Address	;
]

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

Product ID		
Product Name		
MAC Address	00:00:00:00:00	
IP Address		
Subnet Mask		
Gateway IP		
DNS		
IP Mode	Static	-
Web GUI Port	0	
Telnet Port	0	
S / N		
Firmware Version	1	
Hardware Version	ı	
Description		
Web GUI	Web GUI	
Save	Reboot	

(4) 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.

• Login to the WebGUI:

(1) By default, both the Username and Password are "admin" for the WebGUI. The administrator password can be changed within the "System Settings" tab of the WebGUI if desired.

Login	
Username	I
Password	
	Submit
	J

(2) The following function tabs will always display on left side of the WebGUI to aid with navigation.

Switch
Edid Settings
System Settings
Admin - Logout

6.9.1 Switch

This page provides video routing settings, preset saving/loading, and I/O renaming options.

• Video Routing

To begin assigning a new video route, please click the button of the HDMI output you wish to send video to and then click on the button of the preferred HDMI input port. If desired, you may select more than one output prior to selecting the input. As you select each button they will change their color to orange. The new route will become active immediately after selecting the input port and the routing information displayed on the buttons will change accordingly.

	Switch	
	Switch	Ľ 7
em Settings		
nin - Logout		
	Output	Input
	A HELOOL11 / Input 2	1 Input 1
	A Signal 🔤 🗹	1 No Signal
	B HELO B 2 / Input 2	2 Input 2
	B Signal	Z No Signal
	C CCLEMONC / MUTE	3 Input 3
	2880x240p 60Hz	³ No Signal
		Input 4
	D 2880x240p 60Hz 🖹 🔀	4 No Signal 🗹

Output Video Mute

Each output can be individually muted (black video, no audio). To mute an output, please click the (\blacksquare) icon within the appropriate output button. To unmute the output, please click the icon a second time.

Settings Logout		
	Output	Input
	A HELOOL11 / Input 1 Signal	1 Input 1 No Signal
	B HELO B 2 / Input 2 Signal	2 Input 2 No Signal
	C CCLEMONC / MUTE 2880x240p 60Hz	3 Input 3 No Signal
	D 2880x240p 60Hz	4 Input 4 No Signal

Output and Input Naming

All inputs and outputs can be renamed as required. To rename the input and output ports please click the "edit" icon (**(**). Click the "Save" button to confirm the change. **Note:** Blank spaces ("") are not allowed in names.

Switch Edid Settings System Settings Admin - Logaut	Switch Output A HELOOL11 / Input 2 Signal B HELO B 2 / Input 2 B HELO B 2 / Input 2 C CCLEMONC / MUTE 28800;240p 60Hz D UTPUT D / MUTE 28800;240p 60Hz	Edit Output Attel.COL11 Ottput Attel.COL11 GSD OSD OSD Coordinate X: Intel Output A Line 1 Line2 OSD Text Line2 OSD Text Color Cyan OSD Text Color Cyan OSD Background Color Bick OSD Background Transparent Level Level 8
		Cancel

• OSD Text Settings

Each output can display up to 2 lines of customized OSD text. The text can be customized in content, color, background transparency, size and position. Click the "edit" icon (2) associated with each output to modify these settings. Please click the "Save" button after making changes to the positioning or content. All other changes occur as soon as they are made.

• Preset Setting

This matrix can store up to four video routing presets. Presets can be utilized to store multiple different routing states in advance for rapid, hassle-free, recall.

Store: Once you have the matrix set the way you like, you can click the "Preset Set" icon (I) in the upper right corner of the window and the Preset Set window will open. You may also name the preset at this stage by selecting the "edit" icon (I). Click the main part of the Preset's button to store the current state into that preset.

Switch	
Edid Settings	Switch
System Settings	
Admin - Logout	
	Preset Set
	Output
	A HELOOLII / Input 2 Signal I PRESET 1 PRESET 1 PRESET 3
	B Stend
	D OUTPUT D / MUTE D 2880x240p 60Hz
	Edit Preset 1 Name
	Set Preset 1 Name - PRESET 1
	Cancel Version.V0.11

• **Recall:** When you wish to load a previously stored preset, please click the "Preset Recall" icon (☑) and you will be presented with a choice of the available 4 presets. Hovering the mouse over each button will display the preset routes stored within it. The preset will load immediately upon selecting the preset.

Edid Settings ystem Settings dmin - Logout		e e	
Output A HELOOL11 B HELO B 2 Signal C CCLEMONC C CCLEMONC D OUTPUT D D 2880x240p	/ Input 2 / MUTE 60Hz C	Preset Recall R 1 PRESET 1 3 PRESET 3 2 PRESET 2 4 PRESET 4 Cancel	

6.9.2 EDID Settings

This matrix provides the option of six standard EDIDs, four sink sourced EDIDs and four customer uploaded EDIDs that can be assigned to each input port individually. The names of the four customer uploaded EDIDs can changed if desired.

• Customer EDID Settings

To upload a custom EDID, please click the "Upload" button next

to the Customer EDID Settings item you would like to change. An EDID Upload window will appear, allowing you to locate and upload your preferred EDID file from the file directory on your local PC. Once the correct file has been selected, please click the "Upload" button in the window, and the file will be transferred to the matrix.

Switch	EDID
Edid Settings	Customer EDID Settings
System Settings	1 Save Nami Download Upload
Admin - Logout	
	2 aaaaaaa Save Nam Download Upload
	3 useasasa Save Nam Download Upload
	4 sssaaa Save Nam Download Upload
	Sink EDID Download
	Select • Download
	Set EDID Input content
	Input 1
	1 from
	sssaaa Input 2
	2 from
	SSSaa
	Input 3 3 from
	sssaa
	Input 4
	4 from sssaaa
	source
	Version:V0.11

• Sink EDID Download

To save an existing custom EDID to your local PC please press the "Download" button next to the Customer EDID Settings item you would like to save. Depending on your browser settings you will either be asked where to save the downloaded file, or the file will be transferred to the default download location on your PC.

Switch Edid Settings	EDID Customer EDID Settings	
System Settings Admin - Logout	3 useasasa Save Nam Download U 4 sssaa Save Nam Download U	pload pload
	Sink EDID Download Select Download Select Output A Dutput A Dutput C Sssaa Dutput C from Dutput C from Dutput C Dutput A Dutput C Sssaa Dutput C Dutput A Dutput A Dutput C Dutput A Dut	
	sssaa input 3 input 4 isssaa input 4 isssaa input 4 isssaa	*
		Version:V0.11

• Set EDID Input Content

The Set EDID Input Content section allows for the assignment of an EDID to each individual input port, or to all inputs at once. Click on an input to open the EDID Source management window. Multiple inputs can be selected at once, if desired. Select the new EDID source to use and the change will occur immediately.

Switch Edid Settings System Settings Admin - Logout	2 aaaaaaa Save Nam Download 3 useasasa Save Nam Download	Upload Upload Upload Upload		
	Input 1 553aa Input 2 1 from 552aaa 1 nput 3 3 from 553aa 1 nput 4 4 from 555aaa	•	Edid Source 8bit2DiPCM/1080p/2CH (Sink A 8bit2DiPCM/1080p/MCH (Sink B 8bit2DiPCM/4K2K@30/2CH (Sink C 8bit2DiPCM/4K2K@30/MCH (Sink D 8bit2DiPCM/4K2K@60/2CH 1 8bit2DiPCM/4K2K@60/MCH aaaaaaa	(Useasasa) (Sssaaa) (Sssaaa)

Note: This matrix comes with the following 6 default EDIDs:

- 1. FHD/2CH: 1080p@60Hz(148MHz), LPCM 2.0, 8-bit color
- 2. FHD/MCH: 1080p@60Hz(148MHz), LPCM 7.1 & bitstream, 8-bit color.
- 3. 4K UHD/2CH : 3840×2160p@30Hz (297MHz), LPCM 2.0, Deep Color (8/10/12-bit)
- 4. 4K UHD / MCH : 3840×2160p@30Hz (297MHz), LPCM 7.1 & bitstream, Deep Color (8/10/12-bit)
- 5. 4K UHD+ / 2Ch : 3840×2160p@60Hz (594MHz), LPCM 2.0, Deep Color (8/10/12-bit)
- 6. 4K UHD+ / MCH : 3840×2160p@60Hz (594MHz), LPCM 7.1 & bitstream, Deep Color (8/10/12-bit)
- **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 6 default EDIDs for maximum compatibility.

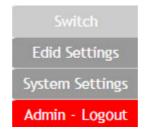
6.9.3 System Setting

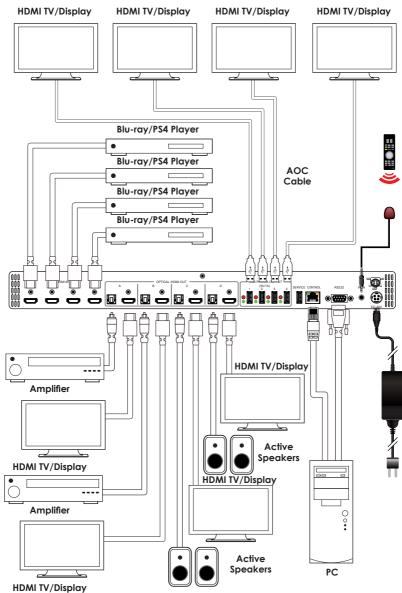
This page provides system configuration options including turning the unit's power on/off, turning the USB power support on/ off, changing the network settings, resetting the system to factory defaults and updating the firmware.

Switch	System Settings
Edid Settings	Power ON
System Settings	
Admin - Logout	USB Power Supply
	USB 1 ON USB 2 ON USB 3 ON USB 4 ON
	Web User Setting
	Username
	Old Password
	New Password Save
	Confirm Password
	Web Login Timeout(Minute) 24 min +
	NetWork
	IP Mode: DHCP
	IP: 192.168.6.116
	Netmask: 255.255.255.0 Save
	Gateway: 192.168.6.254
	MAC Address: [18-22-85-00-07-43]
	Reset to Default
	Routing Rese Fadefault
	Firmware Upgrade
	選擇檔案 未選擇任何檔案 Upgrade
	Version V0.1

6.9.4 Admin log out

Clicking the "Logout" tab will automatically log the user out of the WebGUI and return to login page.





7. CONNECTION DIAGRAM

8. SPECIFICATIONS

8.1 Technical Specification

Video Bandwidth	18Gbps (600Mhz)
Input Ports	4 x HDMI
Control Interfaces	1 x IR In
	1 x RS-232
	1 x Service (USB)
	1 x Control
Output Ports	4 x HDMI
	4 x USB port (5V/1A power supply)
Supported Resolutions	480i~4K@24/50/60Hz
	4K@50/60Hz
	VGA~WUXGA
IR Frequency	38kHz
Baud Rate	115200 bps
Power Supply	24VDC/3.75A (US/EU standards, CE/FCC/ UL certified)
Chassis Material	Metal
Color	Black
Dimensions	438mm x 49mm x 269mm (W×H×D) [Case Only]
	482mm x 49mm x 274mm (W×H×D) [All Inclusive]
Weight	2966g

8.2 Support Timing

Input & output / Timing (Hz)	HDMI Input	HDMI Output
640x480@60/72/75/85	V	V
720x400@85	V	V
720x480p@59.94/60	V	V
720x576p@50	V	V
800x600@56/60/72/75/85	V	V
1024x768@60/70/75/85	V	V
1152x864@75	V	V
1280x720p@50/59.94/60	V	V
1280x768@60/75	V	V
1280x800@60RB/60	V	V
1280x960@60	V	V
1280x1024@60	V	V
1360x768@60	V	V
1366x768@60	V	V
1440x480i@59.94/60	V	V
1440x576i@50	V	V
1400x1050@60RB/60	V	V
1440x900@60RB/60	V	V
1600x900@60	V	V
1600x1200@60	V	V
1680x1050@60RB/60	V	V
1920x1080@60RB	V	V
1920x1080i@60	V	V
1920x1080p@23.97/24/25/29.97/30/59.94/60	V	V
3840x2160p@24/25/30	V	V
3840x2160@50/60(4:4:4)/50/60(4:2:0)	V	V
4096x2160p@24	V	V

8.3 HDMI Cable Length

Timing	Input	Output
1080p	10M	10M
4k2k@30	10M	10M
4k2k@60 (certified HDMI cable)	ЗM	10M



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