



User Manual

VER 1.0

Thank you for purchasing this product

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

Surge protection device recommended

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

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1. Introduction

This Video over IP Controller is used to control and manage IP products. It supports dual 1G network ports, which can realize dual-network isolation of Control network and Multicast video distribution network. It supports Web GUI/TCP/RS-232/IR/GPIO controls, POE function and IR control signal pass through as well. Since the demand of IP products is daily increased in the current market, the IP Controller will be widely applied in more and more different scenarios.

2. Features

- ☆ Easy to create project, control and manage the system
- ☆ HTTPS, SSH, SFTP security compatible
- ☆ Built-in Web GUI control interface, supporting Drag & Drop operations
- ☆ Support image preview
- ☆ Support video, audio, RS-232, IR, KVM control and management of the distributed system
- ☆ Dual network ports (VIDEO LAN port supports POE function) to isolate Controls and Multicast networks.
- ☆ Support LAN/RS-232 port control and third-party central control
- ☆ Support IR signal receiving (3.5mm audio jack, 12V level)
- * 4 channel GPIO control ports (5V/12V optional level)
- \Rightarrow Multiple circuits protection, lightning protection and ESD design
- ☆ Reliable system design, ensuring 7*24 hours reliable and stable work

3. Package Contents

- 1 1 x Video over IP Controller
- 2 1 x 20kHz-60kHz 12V IR Receiver Cable (1.5 meters)
- 3 1 x IR Blaster Cable (1.5 meters)
- ④ 2 x 3-pin 3.81mm Phoenix Connector (Male)
- (5) 1 x 6-pin 3.81mm Phoenix Connector (Male)
- 6 2 x Mounting Ears
- ⑦ 4 x Machine Screws (KM3*6)
- ⑧ 1 x 12V/1A Locking Power Adaptor
- (9) 1 x User Manual



4. Specifications

Technical	
Network Video Bandwidth	Up to 1G
Transmission Distance	100m CAT 5E/6/6A/7
Control Ports	2 x 1G LAN [RJ45 connector] [VIDEO LAN support POE] 1 x IR IN [3.5mm audio jack, 12V level] 1 x IR OUT [3.5mm audio jack] 1 x DIGITAL I/O [6-pin 3.81mm phoenix connector] 2 x RS-232 [3-pin 3.81mm phoenix connector] 1x USB Host [Micro USB, 5-pin female]
Dimensions	204mm(W)×98.5mm(D)×21.5mm(H)
Housing	Metal Enclosure
Color	Black
Weight	508g
Power Supply	12V/1A
Power Consumption	8.4W
Operating Temperature	0°C ~ 50°C
Storage Temperature	-20°C ~ 70°C
Relative Humidity	0~90% RH (non-condensing)

5. Operation Controls and Functions

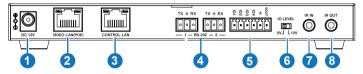
5.1 Front Panel





No.	Name	Function Description
1	RESET Button	Press and hold this button (about 10 seconds) until Status LED starts flashing, Controller will be reset automatically.
2	POWER LED	The red LED will light on when the Controller is powered on.
3	STATUS LED	The status LED will flash in yellowish-green every 1 second until Controller boots up completely and Control LAN is ready, then it becomes solid.
4	UPDATE	Firmware update port. Note: Must keep no connection on this port when Controller works in normal mode.

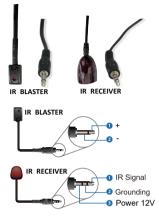
5.2 Rear Panel



No.	Name	Function Description
1	DC 12V	DC 12V/1A power input port.
2	VIDEO LAN (POE)	1G Video LAN port, supporting POE function. Note: When POE is enabled, DC 12V/1A power supply is not required.
3	CONTROL LAN	The TCP/IP control network port.
4	3-pin Phoenix Connectors	Two identical RS-232 serial communication ports.
5	6-pin Phoenix Connector	4 channel I/O level outputs, 1 channel grounding, 1 channel power supply (supports up to 12V/0.5A) to the outside.
6	IO LEVEL DIP Switch	Used to control I/O level output and VOUT voltage. Switch to left: 5V I/O level output, VOUT is 5V. Switch to right: 12V I/O level output, VOUT is 12V.
7	IR IN	12V IR signal input port.
8	IR OUT	IR signal output port. (Reserved for future use.)



5.3 IR Pin Definition



6. Rack Mounting Instruction

6.1 6U Rack Mounting

This Controller can be mounted in a standard 6U rack (Please contact your supplier for 6U rack sale). The mounting steps are as follows:

Step 1: Use included screws to fix two mounting ears on the Controller, as shown in the figure below:





Step 2: Insert the Controller with mounting ears into a 6U rack (up to 10 units can be installed vertically), as shown in the figure below:



Step 3: Use screws to fix mounting ears on the rack to complete the mounting, as shown in the figure below:

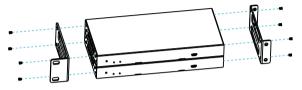




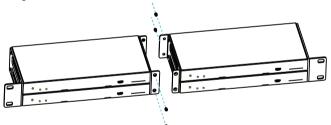
6.2 1U Rack Mounting

This Controller also can be mounted in a standard 1U rack (up to 4 units can be installed horizontally). The mounting steps are as follows:

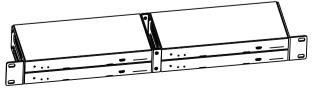
Step 1: Stack two Controllers on top of each other, then use included screws to fix two 1U rack panels on the Controllers, as shown in the figure below:



Step 2: Fix two 1U rack panels on another two stacked Controllers in the same way, then use screws to fix two 1U rack panels together, as shown in the figure below:



Step 3: Fasten screws between two 1U rack panels, so that four Controllers are mounted in a 1U rack, as shown in the figure below:



7. Web GUI User Guide

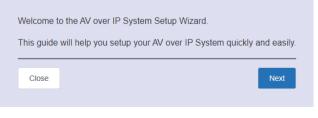
7.1 Preparation before Entering the System

You can use Controller's Web GUI to control all IP products at the Switch. The operation method is shown as below:

Step 1: Input the Controller's default IP address (192.168.0.225) or the URL (http://controller.local) into the Web browser address bar on the PC to enter the Web GUI login interface.



Select the initial username (admin) and input the initial password (1234) on the above login interface. Then, click "Log In" to enter the Web GUI interface. For the first time, you need to setup the project, as shown in the following figure:





Step 2: Click the "Close" button to load an existing project in web page directly, or click "Next" button to go to the next step.

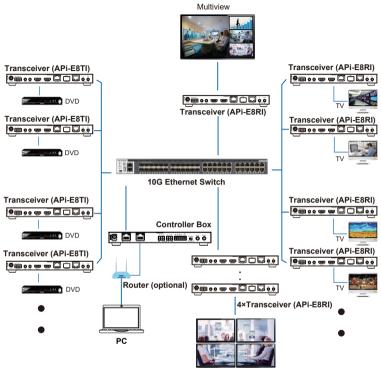


On this interface, you need to set the IP mode of Video LAN.

Mode 1: Automatically managed by Controller Box.

Please connect all the devices according to the following diagram.





Video Wall



Click the "Next" button and wait for the completion to enter the interface as shown in the figure below.



Select "Automatically add Encoders and Decoders to project", and click the "Scan" button to enter the Project page. All the connected devices will be listed in the Current Devices list.

Current	Devices				Display ID	Save Project Load Project	Clear Project
Encoders				Decoders			
ID	Name	IP Address	Status	ID	Name	IP Address	Status
1	TXI	169.254.1.56	Online	1	RX1	169.254.143.56	Online
2	TX2	169.254.159.56	Online	2	RX2	169.254.205.56	Online
3	TX3	169.254.191.56	Online	3	RX3	169.254.219.56	Online
4	TX4	169.254.200.56	Online	4	RX4	169.254.233.56	Online
Unassig	ned Devices					Stop Scan & Auto Assign	Scan Once
Unassigne	d Encoders			Unassign	ed Decoders		

Then click "Stop Scan & Atuo Assign" to stop search.

Note: Currently only Mode 1 is available, Mode 2 and Mode 3 will be ready in short future, the operation steps will be supplemented.



7.2 Functions and Operation

Preview Page

On this page, you can preview the Encoder/Decoder by clicking the dropdown list on the right side.



Matrix Control Page



Encoders: Display all the current Encoders. The text in the figure is the name of the device.

② **Decoders:** Display all the current Decoders. The text on the first line is the name of the Decoder, and the text on the second line refers to the Encoder where the signal resource is from.



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Operating Instructions:

- (1) If an Encoder shows "No Signal", it means that the Encoder cannot be dragged.
- (2) If there is an image on an Encoder, it means that the Encoder can be dragged. As shown in the figure above, if an Encoder is dragged to the place where the red arrow points to, all Decoders will share the same signal resource from this Encoder; if an Encoder is dragged to the place where the blue arrow points to, only the indicated Decoder can receive signals from this Encoder.

Project Page

Current Devices				Deploy 10 Save Project Law	Project Clear Project
Encoders			Decoders		
ID Hame	IP Address	Bates	ID Name	IP Address	Datus
1 201	109.204.3.1	Online	1 80	100.254.6.4	Critine
2 112	100.254.3.2	Online	2 102	300.254.6.3	Citiline
3 103	100.254.3.5	Online	3 603	100.254.6.2	Ontine
4 T64	100.254.3.4	Online	4 80	900254.6.5	Online
			5 805	900.254.6.7	Online
			6 806	909.254.6.6	Online
			7 807	109.254.6.1	Online
Unassigned Devices				Start Scar-& A	de Assign Scan Ore
Unensigned Encodern			Enerolgand Decoders		
P Address	MAC Address		P Address	MAC Address	
	There are to unavoigned encoders.			There are no ananoigned decoders.	

① Current Devices: Devices that have been added to the current project.

2 Unassigned Devices: Devices not added to the current project.

Operating Instructions:

- (1) Click "Display ID" to display the ID or PATTERN of the Decoders.
- (2) Click "Save Project" to save the project file (config_file.json), so that you can use the saved project next time without scanning devices again.
- (3) Click "Load Project" to load the existing project directly.
- (4) Click "Clear Project" to clear the current project, then you will need to setup the project again.



- (5) Click "Scan Once" to search devices that do not appear in the current project.
- (6) Click "Start Scan & Auto Assign" to search new devices automatically and add to the current project.

Encoders Page

10	Name	MAC ADDIVES	IP Address	Finneare	Status .	EDID	LR Out	CEC Command
	TR	6c at to 00.50.81	108.254.5.1	1202	Online	#0100_4442001.0DR ~	HDM	Command
2	702	6c at to 00:30.07	101254.5.2	1202	Online	#050_441200110R	HOM	Command
3	10	6c df 81 00 20 15	168.254.3.3	1202	Online	#0900_4442004.HDR ~	HOM	Convent
	734	64.47.5-00.38.36	103.254.3.4	1202	Online	40000,4442004301 V	HOM	Command

- ① ID: The ID of the current device. (Note: ID is not duplicated.)
- ② Name: The name of the current device.
- ③ MAC Address: The MAC Address of the current device.
- ④ IP Address: The IP Address of the current device.
- ⑤ Firmware: The Firmware version No. of the current device.
- 6 Status: The status (online or offline) of the current device.
- O **EDID:** The EDID of the current device.
- 8 L/R Out: The audio selection of the current device.
- CEC Command: The CEC Command of the current device.

Operating Instructions:

- (1) Click "Refresh" to refresh the data of the current Encoders.
- (2) Click the drop-down list of EDID to set the current Encoder's EDID.
- (3) Click the drop-down list of L/R Out to set the current Encoder's audio output.
- (4) Click "Command" to set the CEC command for the Encoder.



(5) Click the icon on the left of ID to check the detail information about the current Encoder, as shown in below:

1	AVol P	Enc	oders							
6 ⊛	D	Katar		MC Address	PAddwas	Firmun	Status	600	LR OM	Partnesh CEC Command
ш ө		100		c df ffe 00:30 91	102214.3.1	12.02	Onine	402403_444.2001108	· HOM	· Connant
			Name	1301						
Ci i			Update ID	Select						
8			CEC Pass-Brough	Off						
88			ENC LED Flashing							
ш А				Select a decoder	~					
× ×			Serial Settings >	4494						
2			Preview							
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A۱	/olP	Encoders								
6										elest.
(E) (E)	10	Name	MAC Address	PARTIE	Firman	Notes	EDID	LR Dut	CEC Command	
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			Preview							
										- 11
8			Reboot							- 11
		Replace (Must b	offline) Hapters (Australia	leve)						- 11
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× ≆		Factory Defa	At Reset Factory Dolast Do	H						11
	1	112	6c of the 20, 30, 67	1012543.2	12.02	Online	492902_44420011108	· HDM	~ Command	
1										
Ð										

On this page, you can setup the current Encoder as required.



Decoders Page

H		lines	MAC Address	P Address	femane	Status	Source	Display Mode	Scalar Resolution	function		24
H	,	693	fic of the Stic Street	1025464	1242	Craine	702	Fiel Switch	MADRONSINGSON ~	Harry .		Commen
H											- 1	Conner
H	2	102	6c df fb.00 30.09	109254.6.3	12.8.2	Critine		Fail Switch	2640K740g604 ~	Video Vial	<u> </u>	
1	3	103	6c dt 6 00 38 a3	909 254 6 2	12.8.2	Colline		Fiel Switch	зыкионадкоч ч	Video Vial	~	Comment
I	4	1958	6c of \$6.00.30.57	909-254-6-5	1282	Online	70	Fiel Switch	384082103808694 ~	hidro		Commen
H	5	695	6c@1810030.5c	102254.6.7	12.8.2	Online	700	Fast Switch	304080468g604 ~	1000	-	Comment
H	4	100	6cd/16.003833	102544.6	12.82	Critine	Tet	Feldwith	264030100_604 ~	1010	-	Connan
		197	6c of th 20 39 26	909-254-6.1	12.82	Collog	7501	Fiel Swith	384010158g604 ~	histo	-	Correspondence
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L												

① ID: The ID of the current device. (Note: ID is not duplicated.)

- ② Name: The name of the current device.
- ③ MAC Address: The MAC Address of the current device.
- ④ IP Address: The IP Address of the current device.
- (5) Firmware: The Firmware version No. of the current device.
- 6 Status: The status (online or offline) of the current device.
- ⑦ Source: The signal source (Encoder) of the current device.
- 8 Display Mode: The display mode of the current device.
- 9 Scaler Resolution: The resolution of the current device.
- 1 Function: The mode (Matrix/Video Wall/Multiview) of the current device.
- ① CEC Command: The CEC Command of the current device.

Operating Instructions:

- (1) Click "Refresh" to refresh the data of the current Decoders.
- (2) Click the drop-down list of Source to select the current Decoder's signal source.
- (3) Click the drop-down list of Display Mode to select the current Decoder's display mode.
- (4) Click the drop-down list of Scaler Resolution to select the current Decoder's resolution.
- (5) Click the drop-down list of Function to select the current Decoder's mode



- (6) Click "Command" to set the CEC command for the Decoder.
- (7) Click the icon on the left of ID to check the detail information about the current Decoder, as shown in below:

	AV	οIΡ	De	ecoders									
ы Э	F	D	Name	MA2 Address		IP Address	Firmeare	Status	fource	Chaplay Wode	Scaler Resolution	Function	Rotoph CED Command
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				Name									- 1
8	6.			Update ID CEC Pass-through									
				DEC LED Flashing	or								
ш А				Display Product ID h(only in fast switch mode)									
÷			SEVEL	Serial Settings >		409							
2													*
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	AVo	IP	D	ecoders								
•												Robert
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-				Serial Settings >	ANA							1
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8				Raboot	Detroit.							- 11
88 88				Replace (Must be offline)	Feptice (Matthe office							- 11
8				Remove from Project	nenove ton Popul							- 11
ŝ				Factory Default Reset	Packey Default Reset							
2			1012	64 JE 10 20 20 1	101254.6.3	12.02	Colline		Fast Switch	v 394082160@604 v	Vices INH ~	Connand
2	-											
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On this page, you can setup the current Decoder as required.



Locked Signal Routing Page

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10	Nome	P Address	11040	Auto		bertat	0.918		CBC Rowling	
	R81	902254.6.4	Foliow	Follow	NA	NA	NA		NA	
1	1012	10.254.6.3	Follow	Pallow	165	765	NA		185	
3	100	909.254.5.2	Folior	Folow	NA	NA	NA		NA	
4	8264	98229463	Foliow	Follow	NA	NA	NA		784	
8	100	909.254.6.7	Police	Follow	NA.	NA	NA		185	
6	F285	902254.5.5	Foliow	Follow	NA	NA	NA		164	
	8907	101254.5.1	Fotow	Follow	NA	NA	NA		205	

On this page, you can independently route the video and audio signals between Encoder & Decoder devices. You also can set the IR/Serial/USB signals as required. Please click "Locked Routing Help" for details.

Video Wall Managment Page

AVo	P Video Wall	Management			
Video 10	al La		Video Webs Information		Ven Ad Ing Releva
1.1	Name	Autical Rodaontal	OLD Votes Web Name Comb	paration Name Class Hame	Configuration Source
	There are no video waits	in the content project.		There are no relea walk in the current project.	

On this page, you can creat and configure video wall as required. Please follow below steps to create a video wall.

Step 1: Click "Create", a pop-up window will be shown as below:



Create a new Video \	Nall	×
Video Wall ID	1	~
Name	Video Wall 1	
Horizontal	2	<u>~</u>
Vertical	2	<u>^</u>
		Create

You can set the Video Wall ID, Name, Horizontal and Vertical panel numbers. Then click "Create" to create the Video Wall.

Note: Up to 9 video walls can be created.

Step 2: Select the video wall that you want to configure on the "Video Wall List", then click "Assign Decoder" to enter the Decoder assignment page. Click each screen to select the corresponding Decoder device, then click "Apply".

Assign Decenter	Cises Configuration			
				Apply Display 12 DH Display 12 DFF B
e .				
			862	
8				
*		No Decoders		
2		8001		
		82	10.4	
2		134		
Ð		885		
		105		

Note: A Decoder can only be assigned to one video wall.



Step 3: Click "Class Configuration" to enter the class configuration page, then click each screen to select the corresponding Class as required (the same class name will form a video wall, you can create a regular or irregular video wall by Class Configuration). Then click "Apply".



Note: Up to seven configurations can be set up for different application scenarios.

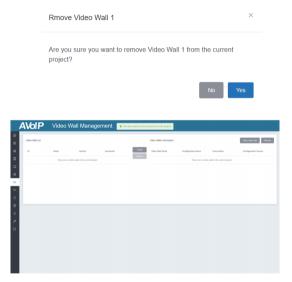
Step 4: After configuration, you can switch to "Video Wall Control" page for video preview, as shown in below.





On this page, you can select different video walls and configurations that you have set up by clicking the drop-down box on the right of "Video Wall Selection / Configuration Selection". Besides, you can directly drag Encoders at the top of the page to the video wall to change signal sources.

If you want to delete a video wall, just select the video wall on the "Video Wall List", then click "Remove". A prompt window will pop up and you can delete it after clicking "Yes".



Notes:

- (1) Each Decoder can be set into a part of a video wall array. Each system can contain multiple video walls with different sizes. Each video wall can be assigned to different screens and different layouts that range from 1x2 up to 9x9.
- (2) The controller creates and manages the video wall configurations and provides a simplified control interface and API commands to third party control system.

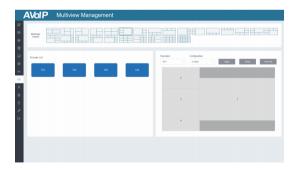


Multiview Managment Page

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8 9 9	River aprox							- 22
а е е	ooder List	102	m	754	Decoders IDE1 ~ IDE2	Configuration Confign. v	Apply Bread	Boot A
8 2 2 0					833 834 835 836 837		,	
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On this page, you can create and configure multiview as required. Please follow below steps to create a video wall.

Step 1: Click the drop-down list of Decoders to select the Decoder device as shown in the above figure. Then click to select the desired Multiview Layout, which will be displayed in the lower right corner, as shown in the figure below.





Step 2: Drag Encoders from the Encoder List to the Multiview Layout respectively, then click the "Apply" button.

A	VolP	Multiview Manager	ment				
9 9 9	Multiver Layout						-84
3 0 2	Encoder List TX1	152	103 104	Decoders T03	Configuration Controls X	v April Brud	Erect Al
R ≆ ₽							×
Đ							

Step 3: After configuration, you can switch to "Multiview Control" page for video preview, as shown in below.



On this page, you can select different Decoders and configurations that you have set up by clicking the drop-down box on the right of "Receiver Selection" / "Configuration Selection".



If you want to delete a multiview, just click the "Reset" button. A prompt window will pop up and you can delete it after clicking "Yes".

	AVolP	Multiview Mana	gement				
9 8 9	Milliona						
	Encoder List				Decoders		 Dest Al
0 0	134	10	na	114	-	×	-
53 60			Tip	you sure you want to reset the	× mattelew 7		× .
8				_			
4 H							
2							_
Ð						_	

If you want to delete all multiview configurations you set before, just click the "Reset All" button. A prompt window will pop up and you can delete them after clicking "Yes".

AVol P 🛚	lultiview Management		
C Multiseen			
E Encoder List	_		Decision Configuration
8 20	no no	TXI Tip	The second se
8		Are you sure you want to reset all mu	wilder
20 20			
2 0			



Users Page

AVol P	Jsers		
(a) (Usersame	Ercoder IDs	Decoder 10x	Users map: New User Edwards
		There are neurons in the system	
2			
8			
≕ R			
2			
•			

On this page, you can add new user accounts.

Controller Settings Page

					Reset Controller
General Settings					Header Consolidar
Name	C7L1080	Version	0.16	GUI Version	1.12.5
IR Control	01	Teinet Port	23	R5232 Baud Rate	57600
Control Network					
DHOP	disabled	IP Address	192.168.0.225	Babnet	255.255.0.0
Gateway	182 188 0 1	MAC Address	6C DF 78 00 01 21		
Video Network					
DHCP	disabled	IP Address	109.254.2.225	Subnet	255.255.0.0
Galeway	100.254.2.1	MAC Address	6C.DF.FB.00.01.20		

① General Settings: The basic settings of the Controller.

② **Control Network:** The network port configuration of the Controller connected to the Switch.

③ Video Network: The network port configuration of the Controller connected to video source devices.

You can update the settings or reset the Controller.



Firmware Update Page

	Upd	ste Firmware			Since Property.	Uptical Permane	- 10	plead Crocoller or D	todo Perseau I I I I	late (55 Permane	Update NOP Premium	
	t n	oders				Openie 44	04	coders				Liptor /
	ю	Kana	Differences	Permanen	MCU Parametere			Name	1071 main	Parameters	NCU Paramiana	
		261	1.83.01	1202	1.01.45	Update		681	1.03.01	1302	10145	Lipchite.
	2	102	1.83.01	1202	121.40	update	2	R002	1.03.01	1303	10140	update
	3	743	1.83.01	1212	121.45	LIPCAN	0	683	1.03.01	1202	10145	LD DAY
	4	764	1.83.01	1212	121.45	Liptate	4	RMA	1.03.01	1202	10145	Liptore
							6	885	1.03.01	1202	10145	Liptine
1							6	896	1.00.01	1202	10145	Upstale
Ľ.								887	1.03.04	1202	10145	Lipsiate

On this page, you can separately update the firmware of any Encoder/Decoder by clicking the corresponding "Update" button on the right, or update all the firmwares of Encoder/Decoder simultaneously by clicking the corresponding "Update All" button. Also you can update the Second Stream (SS) chip firmware and the NXP firmware.

Password Update Page

Upd	ate Firmware		Since Property	LineFrenat	<u> </u>		Cercoles Firmane Upb	ele 15 l'enner	Iptinie NAP Farmane	
			Update Password							
			Password							
			Confirm Password							
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On this page, you can change the password. Note that after changing, it will skip to the Web browser home page or the Web GUI login interface automatically. You need to log in the Web GUI again with the new password.

Log Out Page

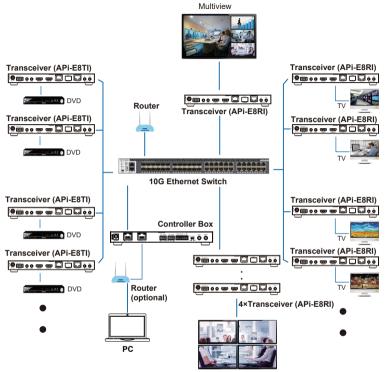
8. Application Example

Click "Log Out" on the left, the Web GUI will exit and skip to the login interface automatically.

Mode 1: Automatically managed by Controller Box. Multiview Transceiver (APi-E8TI) Transceiver (APi-E8RI) 900 o o o O O O O o o DVD 9 m oo w w 🖸 🗋 🗔 öö Transceiver (APi-E8RI) Transceiver (APi-E8TI) Transceiver (APi-E8RI) DVD 10G Ethernet Switch Transceiver (APi-E8TI) Transceiver (APi-E8RI) e 📖 o o un un 🛄 🗋 🗔 ö ö Controller Box DVD 10 🖬 🖬 Transceiver (APi-E8RI Transceiver (APi-E8TI) 9 🗃 e e e e 🖸 🗋 🖬 é é é 9000 w w 🖸 🗆 🖬 🧿 Router (optional) DVD 4×Transceiver (APi-E8RI) PC Video Wall

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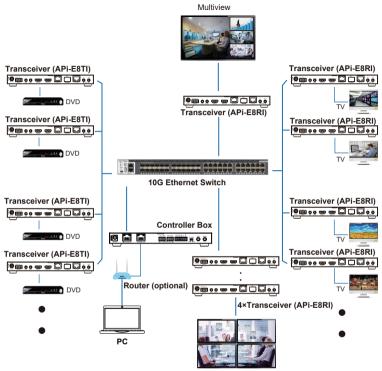
Mode 2: DHCP mode.



Video Wall



Mode 3: Static IP mode by manual settings.



Video Wall



Notes:

- (1) Currently only Mode 1 is available, Mode 2 and Mode 3 will be ready in short future.
- (2) For the default IP mode of Control LAN port of the Controller Box is DHCP, the PC also needs to be set to "Obtain an IP address automatically" mode, and an optional DHCP server (e.g. network router) is recommended in the system.
- (3) If there is no DHCP server in the system, 192.168.0.225 will be used as the IP address of Control LAN port. You need to set the IP address of the PC to be in the same network segment. For example, set PC's IP address as 192.168.0.88.
- (4) You can access the Web GUI by inputting URL "http://controller.local" or the Control LAN port IP address 192.168.0.225 (in case of no optional Router) on your computer's browser.
- (5) No need to care about settings of Video LAN port of the Controller Box in Mode 1 and Mode 2, as they are managed by Controller automatically.
- (6) When the Network Switch does not support PoE, the Encoder, Decoder and Controller Box should be powered by DC power adpater.

