OIP-D50C AVoIP Controller

User Manual - English



[Important]

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Chapter 1 Package Contents











Chapter 2 Instruction before installation

2.1 Selecting Switch

Recommended Brand/Model

Brand	Model	Brand	Model
NETGEAR	S3300 Series	ZyXEL	GS1920
NETGEAR	M4300 Series	ZyXEL	GS2210
D-Link	DGS-1510	ZyXEL	XS3700
Cisco	Catalyst 2960-X	Dell	PowerConnect 5524
EtherWAN	EX26262F	Dell	PowerConnect 2816

2.2 Bandwidth Calculation

The table below summarizes the network bandwidth required for setting resolutions before installation as a reference

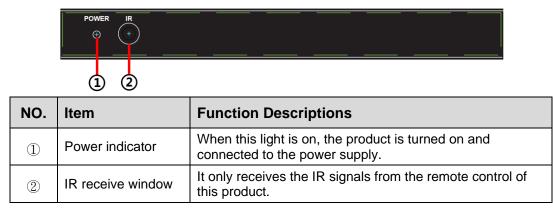
Resolution	Image Quality Settings	Maximum Frame Rate	Average Network Bandwidth (Mbps)
3840*2160 (2160p30)	Auto	30	218 (146~268)
1920*1080 (1080p)	Auto	60	133 (80~210)
1280*720 (720p)	Auto	60	147 (112~177)
1600*1200 (UXGA)	Auto	60	81 (57~105)
1280*1024 (SXGA)	Auto	60	113 (79~150)
1024*768 (XGA)	Auto	60	81 (72~120)
800*600 (SVGA)	Auto	60	66 (49~82)
640*480 (VGA)	Auto	60	43 (29~56)

3.1 System Requirements

- An effective network connection provided by a switch or router, used to connect this product and a compatible VoIP extender (including encoder and decoder).
- An HDMI audio and video equipment, such as a HD TV or screen.

3.2 I/O functions Introduction

3.2.1 Front panel



3.2.2 Rear panel

+	54321 ••••	TR≟ ►		() (+)	+	+	+	
	CONTROL	RS-232	÷ 5678	HDMI OUT	÷.	CTRL LAN	OIP LAN (PoE)	DC 5V ♦-ᢓ-♦

NO.	Item	Function Descriptions
3	IR input port	Connect an IR extender to extend IR to remote devices.
4	RS-232/RS-422/RS -485 output port	Not supported yet, it is expected to be activated through firmware update in the future.
5	RS-232 input port	This product can be operated via RS-232.
6	Contactor input port	Connect to other devices with contactor switch functions, such as window alarms and door switches. It can receive up to 8 contactor signals.
\overline{O}	HDMI output port	It can connect to an HDMI display.
8	USB port	It can connect a USB keyboard and mouse to operate the WebGUI control page. <remark> Please connect the USB control device before turning on this product.</remark>
9	CTRL network port	A computer can operate this product via a network switch connect device.
10	OIP network port (PoE)	It can connect to a control encoder and decoder.
(1)	Reset-to-default button	Hold this button for 3 seconds to restart the device and restore the factory settings.
(12)	Power connector	Plug in the 5V DC power adapter to supply power.

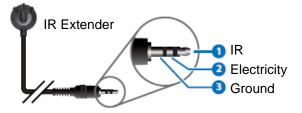


3.3 Remote Control

Preset locations 1 ~ 8: Press any key to start the corresponding preset location of that



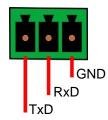
3.4 IR Pin Assignment



3.5 RS-232 Pin and Default Setting

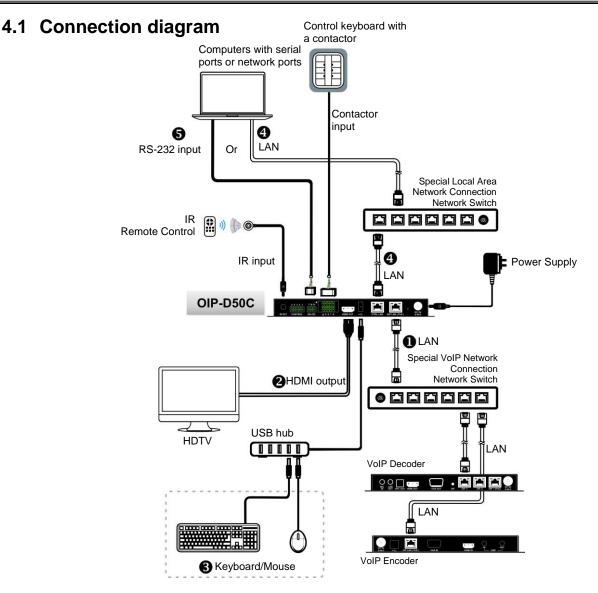
Default Setting of the Serial Port		
Baud Rate	19200	
Data Bit	8	
Parity Bit	Ν	
Stop Bit	1	
Flow Control	Ν	

3-pin Terminal Block





Chapter 4 Installation and Connections



4.2 Connection Setting

This product needs to be equipped with a encoder and decoder at the same time. After the encoder and decoder are connected, connecting to this product can manage multiple encoders and decoders through the WebGUI control page.

- ① Connect the network switch of the same domain as the encoder and decoder to the OIP network port, so that all OIP devices are in the same local area network.
- ② Connecting to a HDMI display can check the device status message and access the WebGUI control page without computer.
- ③ Connect to USB keyboard and mouse.

After completing the above steps, you can use the keyboard and mouse to operate the WebGUI control page for operations and settings. You can also follow the steps below to control this product through computer:

- ④ Connect the CTRL network port to the network switch of the same domain as the computer, so that the D50C controller and the computer are in the same local area network. Enter the IP address of the controller in the web browser to operate and control the product on the web page.
- (5) Use a 3-pin terminal block to DE-9 terminal cable to connect to a desktop, notebook, or other serial main control devices, to perform operation through RS-232.



5.1 Switch Setting

Notes

VoIP transmission will consume a lot of bandwidth (high resolutions), and it needs to be paired with a Gigabit network switch that supports Jumbo Frame and IGMP (Internet Group Management Protocol) Snooping. It is strongly recommended to be equipped with a switch which includes VLAN (Virtual Local Area Network) professional network management.

Most consumer-grade routers cannot handle the high traffic flow generated by multicast, so it is not recommended to directly use the router as your network switch. It is strongly recommended to avoid mixing your commonly used network traffic with VoIP streaming flow. VoIP streaming flow should at least use a separate subnet.

Setting Suggestions

- Please set Port Frame Size (Jumbo Frame) to 8000.
- > Please set IGMP Snooping and relevant settings (Port, VLAN, Fast Leave, Querier) to [Enable].



Chapter 6 WebGUI Control

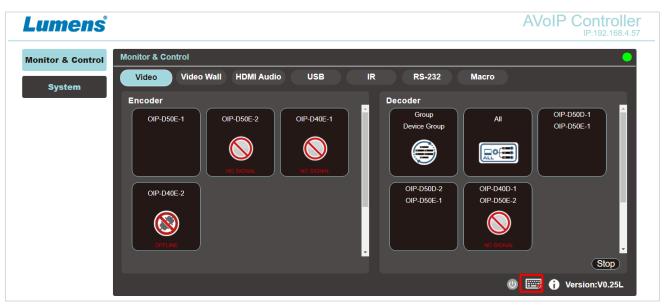
6.1 WebGUI Control Descriptions

6.1.1 Control by Connecting a Display

Connect the display to the HDMI output port as well as the keyboard and mouse to the USB port to see the unlogged WebGUI control page as shown in the figure below. For detailed menu descriptions, please see **6.2 WebGUI Control Menu Descriptions**.

6.1.2 Control via a Web Browser

Open a web browser on the computer and enter the IP address of the CTRL LAN port to see the unlogged WebGUI control page as shown in the figure below. For detailed menu descriptions, please see <u>6.2 WebGUI Control Menu Descriptions</u>.



Even if the user has not logged in, the user can still operate some tabs (Monitor & Control, System). On the one hand, it allows users to change the existing I/O settings or preset I/O settings at any time. It also protects other sensitive and critical settings and configuration for you. To log in to the WebGUI control page, please go to the System tab and click the login button. The default user name and password are both "admin". If you control the device with a display but without a keyboard, click the

keyboard icon in the lower right corner to open the keyboard and type in the user name and password.

Login		X
User Name:	admin	
Password:		
	Enter	

<Remark> If you are not sure about the IP address of the CTRL LAN port, please connect the HDMI display and check the message on the screen.



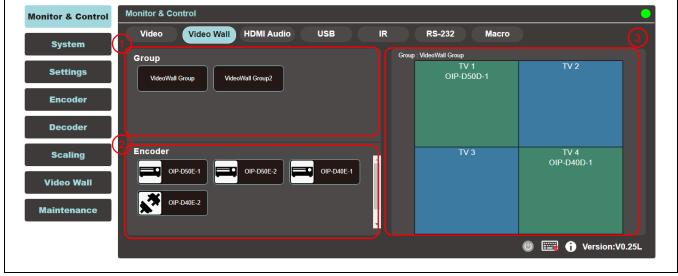
6.2 WebGUI Control Menu Descriptions

6.2.1 Monitor & Control - Image

Мо	nitor & Control Monito	r & Control
	System	leo Video Wall HDMI Audio USB IR RS-232 Macro
		oder Decoder
	Settings Encoder	OIP-D50E-1 OIP-D50E-2 OIP-D40E-1 OIP-D50E-1 OIP-D50E-1 OIP-D50E-1
	Decoder	
	Scaling Video Wall Maintenance	OIP-D40E-2 OIP-D40E-2 OIP-D50E-1 OIP-D50E-2 OIP-
		3 Stop
		🔱 🧱 🐧 Version:V0.25L
		Description
his t	ab is to preview the	encoder, decoder, and video area in the connection, and you can use drag and drop to
	e the signal setting	
No	Item	Function Descriptions
1	Preview of Encoder Signal Source	Drag and drop to assign signal sources to different decoders or groups.
2	Preview of Decoder Video Area	Display the preview thumbnail of the decoder signals, including the currently available display groups.
3	Stop	Drag an object to this button and release to stop setting the object.
	The thumbnail	of the image source will be displayed under normal conditions, and the status icon will I
		er the following conditions:
		When the encoder is

	When the encoder is not currently connected to the input source.	SUPPORT	When the encoder or decoder does not support image thumbnails.
OFFLINE	When the encoder or dec the main controller.	oder is disconr	ected or not detected by

6.2.2 Monitor & Control – Video Wall





No	ltem	Function Descriptions	
1	Group	Show all current VideoWall groups	
2	Encoder	Show all encoders, drag the encoder to the upper VideoWall group, and assign the source to that VideoWall group.	
3	Group View	Green for assigned sources, and blue for unassigned or not connected to the source.	

6.2.3 Monitor & Control - HDMI Audio

Мо	nitor & Control	Monitor & Control		
	System	1 Video Video Wall HDMI Audio USB IR RS-232 Macro		
	Settings Encoder Decoder Scaling Video Wall Maintenance	Encoder		
	waintenance			
		🕐 📟 👔 Version:V0.25L		
No	ltem	Function Descriptions		
1	Encoder	Show all current encoders. To assign HDMI audio sources to different decoders or groups, drag and drop the encoder to the decoder or group to be set. Click an encoder pane, and the corresponding decoder panes that receive the encoder signals will all change their color.		
2	Decoder	Displays all current decoder, and also the name of the source signal encoder.		
3	Stop	Drag the object to the [Stop] button and release to stop setting the object.		

6.2.4 Monitor & Control - USB

Мо	nitor & Control	Monitor & Control	
	System	1 Video Video Wall HDMI Audio USB IR RS-232 Macro	
	Settings Encoder Decoder	Host	
	Scaling		
	Video Wall		
	Maintenance		
		0 🖼 î Version:V0.25L	
No	Item	Function Descriptions	
1	Host	Display all current USB hosts (computers, laptops).	
2	Device	It can be dragged to the USB host pane to complete the pairing.	
3	Stop	Drag the object to the [Stop] button and release to stop setting the object.	



6.2.5 Monitor & Control - IR

Мо	nitor & Control	Monitor & Control					
10	System	Video Video Wall HDMI Audio USB IR RS-232 Macro					
	Settings Encoder Decoder Scaling	Encoder DIP-D50E-1 DIP-D50E-2 DIP-D40E-1 Dip-D50E-2 DIP-D40E-1 Dip-D50D-2 DIP-D50D-2 DIP-D50D-1 Dip-D50D-2 DIP-D40D-1 OIP-D50D-2 OIP-D50D-2 DIP-D40D-1 OIP-D50E-2					
N	Video Wall Naintenance	() Stop () Version:V0.25L					
No	ltem	Function Descriptions					
1	Encoder	Show all current encoders with IR ports.					
2	Decoder	Drag the encoder to the decoder pane to complete the device pairing.					
3	Stop	Drag the object to the [Stop] button and release to stop setting the object.					

6.2.6 Monitor & Control - RS-232

Мог	nitor & Control	Monitor & Control						
	System Settings Encoder Decoder	Video Video Wall HDMI Audio USB IR RS-232 Macro 2 Encoder OIP-D50E-1 OIP-D50E-2 OIP-D40E-1 Group Al OIP-D50D-1 Device Group Al OIP-D50D-1 OIP-D50D-1 OIP-D50D-2 OIP-D50D-2 OIP-D50D-2 OIP-D50D-1 OIP-D50D-2 OIP-D50D-1 OIP-D50D-2 OIP-D50D-1 OIP-D50D-2 OIP-D50D-1 OIP-D50D-2 OIP-D50D-2						
	Scaling Video Wall Aaintenance	() Stop () () () () () () () () () () () () ()						
No	Item	Function Descriptions						
1	Encoder	Show all current encoders with RS-232 port.						
2	Decoder	The encoder can also be dragged to the decoder pane to complete the pairing.						
3	Stop	Drag the object to the [Stop] button and release to stop setting the object.						

6.2.7 Monitor & Control - Macro

Monitor & Control	Monitor & Control
System	Video Video Wall HDMI Audio USB IR RS-232 Macro
Settings	Macro Name Macro Name2
Encoder	
Decoder Scaling	
Video Wall	
Maintenance	
	🔘 🚟 🕧 Version:V0.25L
	Description

Display the name of the currently set macro. Click to execute the set macro. Before the macro setting is completed, the button will remain blue. Only one macro can be executed at the same time.

6.2.8 System

Мо	nitor & Control System	n Settings
	System 1	Login OIP LAN DC:E2:AC:02:00:1C Ctrl LAN DC:E2:AC:02:00:1D
	Settings	Logout IP Mode DHCP V IP Mode DHCP V
	Encoder 3	Change Password IP Address 109/254/3/205 IP Address 192/168/4/57
	Decoder	nguage : English V Subnet Mask 255.255.0 Subnet Mask 255.255.255.0
	Scaling b Pre	view : Enable V Gateway 0.0.0.0 Gateway 192.168.4.254
	Video Wall	Save Save
	Maintenance	
		🕐 🚟 🕦 Version:V0.25L
		Description
This ta	ab can access eacl	n system setting, including LAN settings and login and user management.
No	Item	Function Descriptions
1	Login	Default username and password are both [admin].
2	Logout	Click Logout button to log out WebGUI control page.
3	Change the password	Click Change Password button to change the password of the WebGUI administrator.
4	Change the Language	Open the drop-down menu to change the language to English/Chinese (Traditional)/ Chinese (Simplified).
5	Preview Thumbnails	Open the drop-down menu to enable/disable preview thumbnails.
6	OIP LAN	Set OIP LAN and Ctrl LAN.
7	Ctrl LAN	- Sel Oir Lain and Cill Lain.



6.2.9 Settings - Group

Мо	nitor & Control Settings					•			
	System	Macro I/O Trigger		3					
		Device Group Name	Group :		Device :				
	Settings	1. Device Group	OIP-D50D-1	OIP-D50D-2	OIP-D40D-1	J			
	Encoder								
	Decoder								
	Scaling								
	Video Wall	Order : 1							
		up Name : Device Group							
ľ	Save G		Remove All		All				
					0	📱 👔 Version:V0.25L			
No	ltem	Function Descriptions							
1	Device Group List	Show the currently s	et group list.						
2	Group List	Show the decoders set by the selected group.							
3	Device List	Show all available de	ecoder devices						

6.2.10 Settings - Macro

Мо	nitor & Control Settings						
	System	acro I/O Trigger Time Schedule SNMP					
	Settings	Macro Name					
	Save macio	Execute New Add					
		Description					
This ta	ab provides a way to create	operation commands, which can be controlled by an external IR remote control,					
trigge	r, or from within the WebGU	I. It can set a maximum of 16 macros, and each macro can contain up to 64					
comm	ands.						
No	Item	Function Descriptions					
1	Macro List	Show the currently set macro list.					
2	Macro Commands Table	Show the commands list set in the currently selected macro.					
3	New Command Setting	The new commands can be added here.					



6.2.11 Settings - I/O Trigger

Monitor & Control	Settings			•
System	Group Macro VO	Trigger Time Schedu	le SNMP	
Settings	Trigger 1	Trigger 2	Trigger 3	Trigger 4
Encoder	Macro Name 🗸	Macro Name2 🗸	N/A 🗸	N/A V
Decoder]	
Scaling	Trigger 5	Trigger 6	Trigger 7	Trigger 8
Video Wall	N/A 🗸	N/A ~	N/A 🗸	N/A V
Maintenance]	
				🕛 🚟 🎁 Version:V0.25L
		Description		
	e macro to be triggered emote control buttons.	by the contactor. There	e are 8 buttons to be	set. This setting also

Mor	nitor & Control	Settings								
	System	Group Macro I/O Trigger Time Schedule SNMP								
	Settings	NTP Server : time.google.com								
	Encoder	Sync Save								
	Decoder	Timezone : (UTC+00.00) Coordinated Universal Time 2 Time : 2020-12-01 08:47:56 3								
	Scaling	Live Time : 0 Day 04:53:53 4								
	Video Wall	Daylight: Disable								
N	laintenance									
		🔘 📟 🏦 Version:V0.25L								
No	ltem	Function Descriptions								
		Enter the host name or IP address of the preferred NTP server for time synchronization. After changing the NTP server, click [Save] to save the settings. Click [Sync] to force the device to synchronize to the NTP server immediately.								
1 NTP Server <remark></remark> The clock of this device has no backup battery, and the time setting v preserved if the device is unplugged. But as long as both the Internet connection NTP server are valid, the time setting will be automatically synchronized when the on.										
2	Time zone	Open the drop-down menu to select the time zone for your region.								
3	Time	Show the current device time.								
4	Live Time	Show how long the device has been online since the last restart.								
5	Daylight	Select to enable/disable Daylight.								

6.2.12 Setting - Time



6.2.13 Settings - Schedule

nitor & Control Settings	Settings									
System	Macro I/O Trigger	Time Schedule SNMP (2)								
Settings	Schedule Name 1. Schedule Name	Schedule Settings :								
Decoder		Activation Date : 1970-01-01 00:00:00								
Video Wall	Activate : Disable V Macro : Macro Name V Mode : Once V	Date : 2020-12-11 07:37:33								
		🔘 🧱 🎁 Version:V0.25L								
ltem		Function Descriptions								
Schedule List	Show the currently set schedule list.									
Schedule Settings	(Once/repeat/cycle)	ettings in different modes based on the set time mode.								
	System Settings Encoder Decoder Scaling Video Wall laintenance Item Schedule List	System Settings Encoder Decoder Scaling Video Wall Haintenance Item Schedule List Show the schedule settings Schedule Settings								

6.2.14 Settings - SNMP

Мо	nitor & Control	Settings O				
	System	Group Macro I/O Trigger Time Schedule SNMP				
		New Router/Switch Setting				
	Settings	IP Address : 192.168.1.1				
	Encoder	Community: Public				
	Decoder	Timeout : None				
		Activate : Disable Add				
	Scaling					
	Video Wall					
	Waintenance					
		🔘 📟 访 Version:V0.25L				
No	ltem	Function Descriptions				
1	Router/Switch	Enter the router or switch connection information to view its status and bandwidth usage.				
	Settings					
2	Information Window	Use SNMP to connect to a router or switch. The device shows green to indicate that the port is connected, white to indicate that the port can be connected, and red to indicate an error. Move the cursor to the port to display the related message.				

6.2.15 Encoder

Monitor & Control	Encoder											
Suctor	Remove											
System		Hello	lcon	Order		Name	IP Address	Video	Network	RS-232	Device	USB
Settings	1		l	1	~	OIP-D50E-1	169.254.2.95	Info	Settings	Settings	Settings	Settings
	2		l	2	~	OIP-D50E-2	169.254.2.75	Info	Settings	Settings	Settings	Settings
Encoder	3		l	3	~	OIP-D40E-1	169.254.2.145	Info	Settings	Settings	Settings	N/A
	4		*	4	~	OIP-D40E-2	169.254.2.165	N/A	N/A	N/A	N/A	N/A
Decoder												
Scaling												
Video Wall												
Maintenance												
												Version:V0.25L

Description

This tab displays all the encoders that have been detected, and also shows the detailed data and related settings of each encoder.

<Remark> If there is no available image source, the Image button will be red. Gray "N/A" means that the function is not supported.

No	ltem	Function Descriptions
1	Remove	It can remove unconnected encoder (marked 🔊).
2	Hello	After clicking, the LED indicator on the front panel of the encoder flashes immediately, making it easier to find the encoder. Click this button again to restore the normal operation of the LED indicator.
3	lcon	Show the icon that represents the encoder. \blacksquare for connected; 遂 for unconnected.
4	Order	It can select the order of each encoder.
5	Name	Show the name of the encoder. Click Device > [Settings] to enter 12 letters or numbers to change its name.
6	IP address	Show the IP address of the current encoder.
7	Video	Display the detailed information of the image input source. Remark> If there is no image source, the button is red.
8	Network	Click the [Settings] button to display detailed network information. The default mode is Auto IP.
9	RS-232	Show the detailed information of the current RS-232 serial.
10	Device	Show the detailed information of the device. For detailed settings, please see <u>6.2.16</u> Encoder - Device Settings.
11	USB	Show the detailed information of the current USB, and the settings can be changed here. The default is Auto Select mode. K/M Over IP and USB HID URB interval: A special optimization function can be used to solve the abnormal response of the mouse or touch screen. You can choose to enable or disable it. The default setting is disabled.

6.2.16 Encoder - Device Settings

1 Version : V3.33L		Bandwidth :	Unlimited	~ (
System Command : N/A	~ (2)	Audio Source :		~ (
3 Name : OIP-D50E-1		Audio Mute :		~ (
Channel Select : 2	× (4)	Audio Volume :		(
5 Multicast On : Enable	\sim	Auto Scan :	Enable	~ (
Video Type : HDMI	6	Front Panel Lock for Device Button :		~ (
7 Max Frame Rate : 60	v	Front Panel Lock for Device Knob :		~ (
	Save			

Description

Show the message related to the setting of the encoder-end device. If the function drop-down menu is grayed out, the function has automatically detected the source, or the connected encoder does not support this function.

No	Item	Function Descriptions	
1	Version	Show the current firmware version of the device	
2	System Command	Select System Command to reset or restart the device	
3	Name	Change the device name (12 characters at most)	
4	Channel Select	Select the broadcast channel of the encoder. Available range: 0 ~ 255. <remark></remark> Each encoder in the same LAN needs to be allocated to different broadcast channels to avoid conflicts.	
5	Multicast On	Select to enable multicast mode when broadcasting, or use unicast mode when disabled <remark></remark> The decoder needs to use the same mode as the encoder to receive image.	
6	Video Type	Select the image input source on the device to be played.	
7	Maximum Frame Rate	Set the maximum frame rate, available range: 0 ~ 60.	
8	Bandwidth	Set the maximum bandwidth for the image, available range: Unlimited/400M/200M/ 100M/50M. Remark> When the input source is 4K image, although the recommended setting is Unlimited, the bandwidth may be very big, which will limit the number of simultaneous image streams.	
9	Audio Source	Select the audio source, available options: HDMI/Line in/Auto <remark></remark> This setting is stored independently for individual input sources, and the default setting is Auto.	
10	Audio Mute	This feature is currently not supported.	
11	Audio Volume	This feature is currently not supported.	
12	Auto Scan	The device will search the input signal (HDMI/VGA) automatically after this feature is enabled.	
13	Front Panel Lock for Device Button	This feature is currently not supported.	
14	Front Panel Lock for Device Knob	This feature is currently not supported.	



6.2.17 Decoder

Мо	nitor & Control				
System		emove (2) (3) (4) (5) (6) (7) (8) (9) (10) (1) Hello Icon Order Name IP Address Video Network R3-232 Device USB			
Settings		1 Image: Constraint of the set			
Encoder 3 Image: Settings Settings Settings Settings Settings Settings					
	Decoder				
	Scaling				
	Video Wall				
	Maintenance				
		🔘 🥅 i Version:V0.25L			
		Description			
Show	detailed data and	I related settings of all decoders.			
		, available image source, the Image button will be red, and gray "N/A" means that the \cdot			
function No	on is not supporte				
		Function Descriptions			
1	Remove	It can remove unconnected decoder (marked 🔊).			
2	Hello	After clicking, the LED indicator on the front panel of the decoder flashes immediately, making it easier to find the decoder. Click this button again to restore the normal operation of the LED indicator.			
3	Icon	Show the icon that represents the decoder. 🚍 for connected; 🗭 for unconnected.			
4	Order	It can select the order of each decoder.			
5	Name	Show the name of the decoder. Click Device > [Settings] to enter 12 letters or numbers to change its name.			
6	IP address	Show the IP address of the current decoder.			
7	Video	Display the detailed information of the image input source. <remark></remark> If there is no image source, the button is red.			
8	Network	Click the decoder [Settings] button to display detailed network information. The default mode is Auto IP.			
9	RS-232	Show the detailed information of the current RS-232 serial.			
10	Device	Show the detailed information of the decoder. For detailed settings, please see <u>6.2.18</u> <u>Decoder - Device Settings</u> .			
11	USB	Show the detailed information of the current USB, and the settings can be changed here. The default is Auto Select mode. K/M Over IP and USB HID URB interval: A special optimization function can be used to solve the abnormal response of the mouse or touch screen. You can choose to enable or disable it. The default setting is disabled.			



6.2.18 Decoder - Device Settings

1 Version :	V3.33L		Video Source Unavailable Timeout :	10 secs	~
System Command :	N/A	×2	Video Turn Off Screen On Power Save :	Disable	~
3 Name :	OIP-D50D-1	1	Copy EDID From Sink :	Disable	\sim
Multicast On :	Enable	v (4)	Video Over IP :	Enable	~
5 Video Channel Lock for Device Button :	Disable	~	Audio Mute :		
Video Select Lock for Device Button :	Disable	×6	Audio Volume :		
7 Video Linkage Route :	Enable	~	Front Panel Lock for Device Button :		
Audio Linkage Route :	Enable	× (8)	Front Panel Lock for Device Knob :		
(9) IR Linkage Route :	Enable	\sim	Video Type :		
	Vid	leo Wall	Save		

Description

Show the message related to the setting of the decoder-end device. If the function drop-down menu is grayed out, the function has automatically detected the source, or the connected decoder does not support this function.

No	ltem	Function Descriptions		
1	Version	Show the current firmware version of the device.		
2	System Command	Select System Command to reset or restart the device.		
3	Name	Change the device name (12 characters at most).		
4	Multicast On	On Select to enable or disable the multicast mode when broadcasting. When this func- is disabled, the unicast mode will be used for transmission. < Remark> The decoder needs to use the same mode as the encoder to receive in		
5	Video Channel Lock for Device Button	When this setting is enabled, the image channel selection button will be locked and cannot be used.		
6	Video Select Lock for Device Button	When this setting is enabled, the image input selection button will be locked and cannot be used.		
7	Video Linkage Route	After selecting Enable, when the user switches the signal source, the image will switch as well.		
8	Audio Linkage Route	After selecting Enable, when the user switches the signal source, the audio will switch as well.		
9	IR Linkage Route	After selecting Enable, when the user switches the signal source, IR will switch as well.		
10	Video Source Unavailable Timeout	When the signal source is disconnected, the original screen will remain at the time set by the user temporally, and then display OSD information (encoder/decoder IP, FW version, connection status).		
		Available range: 3 sec/5 sec /10 sec /20 sec /30 sec /60 sec /Never		
11	Video Turn Off Screen On Power Save	After the setting is enabled, when the signal source is disconnected, the original screen will remain for the time set by the user temporally, and then the display will enter the Power save mode. After the setting is disabled, the screen will keep showing "Lost Connection" until the connection is restored.		
12	Copy EDID From Sink	When multiple decoders are connected to a single encoder in multicast mode, enabling this on one receiver selects which of the decoders should send its EDID to the encoder for use with the source.		
		<remark> This option is only valid in multicast mode.</remark>		
13	Video Over IP	The default value is enabled. If it is disabled, image and audio cannot be transmitted through AV over IP technology.		
10		<remark> This option should always remain enabled status, unless troubleshooting is being performed.</remark>		
14	Audio Mute	This feature is currently not supported.		
	nens®	19		

15	Audio Volume	This feature is currently not supported.	
16	Front Panel Lock for Device Button	This feature is currently not supported.	
17	Front Panel Lock for Device Knob	This feature is currently not supported.	
18	3 Video Type Select the image input source on the device to be played.		
19	Video Wall	Click this button to create a new window to configure the settings of the current Video Wall of this decoder. For detailed setting content, please see 6.2.20 Video Wall.	

6.2.19 Scaling

Monitor & Control	Scaling				•
System	Decoder		Resolution		
	Group All Decoder		Bypass	Native	640x480 60
Settings	OIP-D50D-2 OIP-D40D-1		800x600 60	1024x768 60	1280x768 60
Encoder	Native 1920x1080 60				
Decoder			1280x800 60	1280x1024 60	1360x768 60
Scaling			1366x768 60	1440x900 60	1400x1050 60
Video Wall			1600x900 60	1600x1200 60	1680x1050 60
Maintenance			1920x1200 60	720x480i 60	720x576i 50
) (0	Version:V0.25L
	D	escription			
	e image output resolution of each				
	to be set on the left, then drag it t			•	
	d, the set resolution will be displa			e. You can al	lso directly drag an
drop the resolution	to the decoder button to change	the output res	olution.		

Bypass: The decoder will output all signals at its original resolution. **Native:** The decoder will use the resolution provided by the EDID of the connected display to output signals.

Mor	nitor & Control	Video Wall	3) (4)	•
	System	Video Wall Group Name	ecoder :	TV 1	TV2
	Settings	1. VideoWall Group		OIP-D50D-1	1 V 2
	Encoder	1. VideoWall Group2	OIP-D50D-2		
	Decoder			TV 3	TV 4
	Scaling 2	Order : 1 VideoWall Group	Wall Size : 2 V 2 V Bezel H Active : 0	10.3	OIP-D40D-1
	Video Wall	Encoder : OIP-D50E-1	Bezel H Total : 0		
		Display Resolution : 1920x1080 60	Bezel V Active : 0 Bezel V Total : 0		
N	laintenance	Aspect Ratio : Best Fit V Save Group Execute	Bezel V Total : 0 Rotate : 0 V		
					0 📖 👔 Version:V0.25L
No	ltem		Function De	scriptions	
1	VideoWall Group List	Show the currently set Video	Wall group list.		
2	Settings	Order: It can sort different VideoWall groups. Group Name: Set the name of a VideoWall group.			
		Group Name. Set the hame	or a videovvall gro	iup.	
Lun	nens®				2

6.2.20 Video Wall

		Encoder: Set the image source. Display Resolution: You can select the Display Resolution of all decoders in this VideoWall group. Aspect Ratio: It can be set to [Full Screen] or [Best Fit]. Wall Size: Set the size of the Video Wall, and the maximum number of displays is 256 (16*16). Bezel H/V Total & H/V Active: Set the actual size of all displays in the Video Wall.
		Remark> It is recommended that the displays in the Video Wall use the same brand and model to avoid the difference in the size of the frame and the panel. Rotate: Set the rotation angle of the image (0°/180°/270°)
3	Decoder	Show all currently available decoders. Place all decoders onto the Video Wall on the right.
4	VideoWall Preview	Display the preview image of the decoder currently assigned by the Video Wall. If the display on the Video Wall has been assigned, it will show the name of the assigned receiver.

6.2.21 Maintenance

Monitor & Control Maintenance					<mark>.</mark>
	System	(1) (2) Reset Controller R	eboot Controller	4 Firmware Upgrade	
Settings				IP Master Controller	
	Encoder	Reset All Encoders Rel	boot All Encoders	Choose file	Browser
	Decoder	Reset All Decoders Reboot All Decoders		Upgrade	
	Scaling	Reset All	Reboot All	Encoder / Decoder Firmware :	
	Video Wall			Choose file	Browser Upgrade All
N	laintenance		S/N : 001A00003		
				0 🚎	Version:V0.25L
No	ltem		Function [() 📼	Version:V0.25L
No	Item Reset Controller	Reset will restore the devi controllers, encoders, dec	ce to its initial sett	Descriptions ings. Click on the option to r	
	Reset	controllers, encoders, dec	ce to its initial sett oders, or all devic ice, and all setting	Descriptions ings. Click on the option to r es. gs will be retained. Click the	reset all connected
1	Reset Controller Reboot	controllers, encoders, dec Reboot will restart the dev	ce to its initial sett oders, or all devic ice, and all setting coders, decoders,	Descriptions ings. Click on the option to r es. gs will be retained. Click the or all devices.	reset all connected

Chapter 7 Troubleshooting

This chapter describes problems you may encounter while using OIP-D50C. If you have questions, please refer to related chapters and follow all the suggested solutions. If the problem still occurred, please contact your distributor or the service center.

No.	Problems	Solutions
1.	The signal source screen is not shown on the display-end.	 Please check whether the Multicast of the encoder and decoder is enabled: Enter the WebGUI control interface of the D50C controller, then click Device - [Settings] on the Encoder-end and Decoder-end tabs to check whether Multicast is enabled. Make sure the source is set to HDMI or VGA: (Only applicable to D50E/D50D) Enter the WebGUI control interface of the D50C controller, and click Device - [Settings] on the Encoder-end tab to check that the Video type is set to HDMI or VGA. On the front panel of the decoder host, press the Mode button
2.	Image delay on the display-end	 to switch between HDMI and VGA signal sources. 1. Check whether the MTU of the encoder and decoder is enabled (default is enabled): Enter "GET_JUMBO_MTU" in the Command field in the WebGUI interface system - Utility Program tab, and the Output below will show whether the status of jumbo frame MTU is enabled or disabled. If it is disabled, please enter "SET_JUMBO_MTU 1" in the Command field to enable it, and follow the instructions to restart the device to implement the changes. 2. The streaming mode may be Graphic Mode: (Only applicable to D50E/D50D) On the front panel of the decoder host, press the Mode button to switch between the Video/Graphic modes. Please switch to the Video mode.
3.	The image on the display-end is broken or black	Check that the Jumbo Frame of the switch is set to above 8000; Please make sure that IGMP Snooping of the switch and relevant settings (Port, VLAN, Fast Leave, Querier) has been set to "Enable".

<Remark> At least 5V DC current is required to activate the contactor.

Chapter 8 Safety Instructions

Always follow these safety instructions when setting up and using this product:

1 Operation

- 1.1 Please use the product in the recommended operating environment, away from water or source of heat
- 1.2 Do not place the product on a tilted or unstable trolley, stand or table.
- 1.3 Do not open or remove covers, otherwise it may expose you to dangerous voltages and other hazards.
- Refer all servicing to licensed service personnel.

2 Storage

- 2.1 Do not place the product where the cord can be stepped on as this may result in fraying or damage to the lead or the plug.
- 2.2 Unplug this product during thunderstorms or if it is not going to be used for an extended period.
- 2.3 Do not place this product or accessories on top of vibrating equipment or heated objects.

3 Cleaning

3.1 Disconnect all the cables prior to cleaning and wipe the surface with a dry cloth. Do not use alcohol or volatile solvents for cleaning.

Precautions



This symbol indicates that this equipment may contain dangerous voltage which could cause electric shock. Do not remove the cover (or back). No user-serviceable parts inside. Refer servicing to licensed service personnel.



This symbol indicates that there are important operating and maintenance instructions in this User Manual with this unit.

FCC Warning

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment.

Notice:

The changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment.

IC Warning

This digital apparatus does not exceed the Class A limits for radio noise emissions from digital apparatus as set out in the interference-causing equipment standard entitled "Digital Apparatus," ICES-003 of Industry Canada.

Cet appareil numerique respecte les limites de bruits radioelectriques applicables aux appareils numeriques de Classe A prescrites dans la norme sur le material brouilleur: "Appareils Numeriques," NMB-003 edictee par l'Industrie.

EN55032 CE Warning

Operation of this equipment in a residential environment could cause radio interference. Warning: Operation of this equipment in a residential environment may cause radio interference.



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