Video Decoder User Manual

Manual Version: V1.00

Thank you for purchasing our product. If there are any questions, or requests, please do not hesitate to contact the dealer.

Trademark Acknowledgement

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Disclaimer



CAUTION!

The default password is used for your first login. To ensure account security, please change the password after your first login. You are recommended to set a strong password (no less than eight characters).

- To the maximum extent permitted by applicable law, the product described, with its hardware, software, firmware and documents, is provided on an "as is" basis.
- Best effort has been made to verify the integrity and correctness of the contents in this manual, but no statement, information, or recommendation in this manual shall constitute formal guarantee of any kind, expressed or implied. We shall not be held responsible for any technical or typographical errors in this manual. The contents of this manual are subject to change without prior notice. Update will be added to the new version of this manual.
- Use of this manual and the product and the subsequent result shall be entirely on the user's own responsibility. In no event shall we be liable to you for any special, consequential, incidental, or indirect damages, including, among others, damages for loss of business profits, business interruption, or loss of data or documentation, or product malfunction or information leakage caused by cyber attack, hacking or virus in connection with the use of this product.
- Video and audio surveillance can be regulated by laws that vary from country to country. Check the law in your local region before using this product for surveillance purposes. We shall not be held responsible for any consequences resulting from illegal operations of the device.
- The illustrations in this manual are for reference only and may vary depending on the version or model. The screenshots in this manual may have been customized to meet specific requirements and user preferences. As a result, some of the examples and functions featured may differ from those displayed on your monitor.
- This manual is a guide for multiple product models and so it is not intended for any specific product.
- Due to uncertainties such as physical environment, discrepancy may exist between the actual values and reference values provided in this manual. The ultimate right to interpretation resides in our company.

Environmental Protection

This product has been designed to comply with the requirements on environmental protection. For the proper

storage, use and disposal of this product, national laws and regulations must be observed.

Symbols

The symbols in the following table may be found in this manual. Carefully follow the instructions indicated by the symbols to avoid hazardous situations and use the product properly.

Symbol	Description
	Indicates a hazardous situation which, if not avoided, could result in bodily injury or death.
	Indicates a situation which, if not avoided, could result in damage, data loss or malfunction to product.
	Indicates useful or supplemental information about the use of product.

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1 Introduction

This manual describes how to manage the device on a Web browser. The figures in this manual are only for illustration purpose. The parameters, options and values actually displayed on the Web pages of your device may be different from those in this manual.

2 Login

Before you start, check that:

- The device is operating properly.
- The computer is connected to the device.

The computer is installed with Microsoft Internet Explorer (IE) 7.0 or higher, and no proxy server is being used.



NOTE !

- The default IP address of your device is 192.168.1.14; the default subnet mask is 255.255.255.0; the default gateway is 192.168.1.1.
- Use **admin** as the username and **123456** as the password for first-time login. Please change the default password under admin to ensure account security.

Follow the steps to log in to the device:

1. Enter the device's IP address in the address bar and then press Enter.

Please input username Please input password Login	
	L Please input username
Login	Please input password
	Login

2. Log in with the correct username and password.

🗘 System	~	Basic Info	
Basic Info			
Dasie Into		Model	
Time		Serial No.	210235C1PY3800747006
Serial		Firmware Version	B8711.12.10.200515
Play		Hardware Version	В
Window		Boot Version	GRUB 2.02
Running Mode		Refresh	
Service			
Security			
e Network	>		
💥 Maintenance	>		

3 System

Set system settings include Basic information, Time, Serial, Running Mode, and Security.

Basic

The **Basic** page lists the basic information including device type, serial number, software version, hardware version and boot version.

1. Click System > Basic.

O System	~	Basic Info	
Basic Info			
		Model	
Time		Serial No.	210235C1PY3800747006
Serial		Firmware Version	B8711.12.10.200515
Play		Hardware Version	В
Window		Boot Version	GRUB 2.02
Running Mode		Refresh	
Service			
Security			
e Network	>		
💥 Maintenance	>		

2. Click Refresh.

Time

Set system time for your device and how to update time.

1. Click System > Time.

🗘 System 🗸 🗸	Time	
Basic Info	Time Zone	(GMT+08:00) Beijing, Hong k ▼
Time	System Time	2019-2-18 08:05:56 PM 🗉 Sync with PC
Serial	Auto Update	⊙On ⊛Off
Play		
Window	Save	
Running Mode		
Service		
Security		
e Network		
💥 Maintenance 💦 👌		

O System	~	Time	
Basic Info		Time Zone	(GMT+08:00) Beijing, Hong ⊦ ▼
Time		System Time	2019-2-18 08:05:56 PM 🗉 Sync with PC
Serial		Auto Update	⊛On ⊚Off
Play		NTP Server Address	
Window		NTP Port	0
Running Mode		Update Interval	0 Min 🔻
Service		Save	
Security			
e Network	>		
💥 Maintenance	>		

2. Set the parameters. Some are described in the table below.

Parameter	Description
Time Zone	Choose a time zone for your device.
Auto Update	Enable this function if you have a Network Time Protocol (NTP) server on the network. The device synchronizes time with the NTP server at the set interval when enabled. The NTP server's IP address, port number, and update interval are required.
System Time	Current system time of the device. Click the Set Time text box and then set the time manually, or select Sync with PC and then the device automatically synchronizes time with your computer.

NOTE !

The device synchronizes time with the central server when operating in server mode.

Serial

Set the serial port on the device, including the interface, baud rate, parity check, and flow control method.

RS232

- 1. Click System > Serial > RS232.
- **2.** The **RS232** page lists the RS232 interface and can set parameters accordingly. The figure below shows the RS232's parameters.

🗘 System 🗸 🗸	RS232 RS485	
Basic Info	No.	1
Time	Serial Mode	Screen Control
Serial	Baud Rate	115200 🔻
Play	Data Bit	8
Window	Stop Bit	1
Running Mode	Check Bit	None
Service	Flow Control	None
Security	Save	
€ Network >		
💥 Maintenance >		

4. Some parameters are described in the table below.

Parameter	Description
NO.	Select the serial port to set.
Serial Mode	Screen Controll.
Baud Rate	Transmission rate in bps. The baud rate must be consistent with that on the connected external device.
Data Bit	Number of data bits per character.
Stop Bit	Number of stop bits per character.
Check Bit	Two kinds of parity bits: even parity bit or odd parity bit.
Flow Control	Whether and how to control flow of data through the serial port.

RS485

- 1. Click System > Serial > RS485.
- **2.** The **RS485** page lists the RS485 interface and can set parameters accordingly. The figure below shows the RS485's parameters.

🗘 System 🗸 🗸	RS232 RS485	
Basic Info	No.	1
Time	Serial Mode	Screen Control 🔹
Serial	Duplex Mode	Full-duplex •
Play	Baud Rate	115200 🔻
Window	Data Bit	8 🔻
Running Mode	Stop Bit	1
Service	Check Bit	None
Security	Flow Control	None
€ Network >	Save	
💥 Maintenance 💦 👌		

4. Some parameters are described in the table below.

Parameter	Description
NO.	Select the serial port to set.
Serial Mode	Screen Controll.
Duplex	Full duplex or half duplex. Available in RS485 page.
Baud Rate	Transmission rate in bps. The baud rate must be consistent with that on the connected external device.
Data Bit	Number of data bits per character.
Stop Bit	Number of stop bits per character.
Check Bit	Two kinds of parity bits: even parity bit or odd parity bit.
Flow Control	Whether and how to control flow of data through the serial port.

NOTE !

In server mode, only **Duplex** can be configured on the Web browser, and all the other parameters can be configured only on the central server.

Play

Play

Play configuration is mainly set in different network environments, and different decoding modes are chosen: **Real Time Priority** and **Fluency Priority**. When the network environment is good, please set it as **Real Time Priority**, when the network environment is poor, please set it as **Fluency Priority**.

1. System > Play > Play.

The following is the setting of the **Processing Mode** set to a **Real Time Priority**.

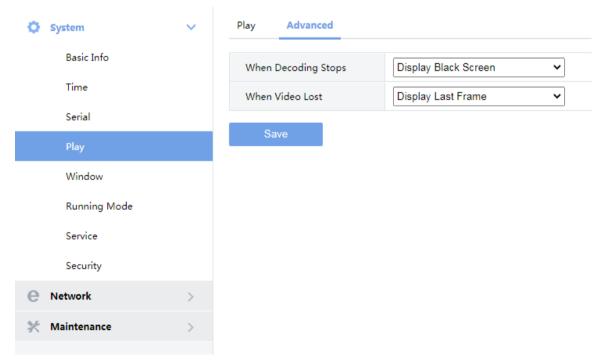
🗘 System	~	Play Advanced	
Basic Info		Processing Mode	Real Time Priority
Time			
Serial		Save	
Play			
Window			
Running Mode			
Service			
Security			
e Network	>		
💥 Maintenance	>		

2. The following is the setting of the Processing Mode set to a Fluency Priority.

System	~	Play Advanced		
Basic Info		Processing Mode	Fluency Priority	~
Time]
Serial		Save		
Play				
Window				
Running Mode				
Service				
Security				
e Network	>			
💥 Maintenance	>			

Advanced

1. Click System > Play > Advanced.



2. Set the parameters. Some are described in the table below.

Parameter	Description		
When Decoding Stops	Display Last Frame		
	Display Black Screen		
M/han Midaa Laat	Display Last Frame		
When Video Lost	Display Black Screen		

Window

Set window border

1. System > Window.

O System	~	Border	
Basic Info		Border	⊛On ⊚Off
Time		Win ID	⊙On ⊛Off
Serial		Border Color	
Play		Border Width	1
Window		Cauc	
Running Mode		Save	
Service			
Security			
e Network	>		
💥 Maintenance	>		

2. Set the parameters. Some are described in the table below.

Parameter	Description
Border	Off by default, Display window border after opening
Win ID	Off by default, Display Win ID after opening
Border Color	Set border color
Border Width	Set border width

3. Click Save.

Running Mode

Set the running mode and protocol of the device.

- **1.** Click **System > Running Mode**.
- 2. The Running Mode page lists the running mode and protocol.

System	~	Running Mode	VSS Local
Basic Info Time Serial		Running Mode Protocol	Master device ONVIF ▼
Play		Save	
Window			
Running Mode			
Service			
Security			
e Network	>		
💥 Maintenance	>		

3. Click Save.

Service

Set the video stream on the web.

Video Output

1. Click Sevice > Video Output

System	~	Video Output	Media Stream
Basic Info		Channel	Channel1
Time		Split Type	1
Serial		Standard	1920×1080@60 V
Play			
Window		Save	
Running Mode			
Service			
Security			
e Network	>		
Maintenance	>		

2. Set the parameters. Some are described in the table below.

Parameter	Description
Channel	Set the current channel
Split Type	Set the Split Type
Standard	Set the output format

3. Click Save.

Media Stream

1. Click Sevice > Media Stream

🗘 System 🗸 🗸	Video Output Media Stream		
Basic Info	Channel Channel1		
Time	Layout 1		
Serial	Stream Address(Win 1) UDP V Client V Source IP(0.0.0 Dest Port(0 Live Vi V Nat SessionId		
Play	Note: 1.Unicast address format (RTSP): rtsp://204.12.5.78:554/media/video1		
Window	2.Multicast address format (RTSP): rtsp://204.12.5.78:554/media/video1/multicast		
Running Mode	3.Source IP 0.0.0.0 indicates that the device does not filter IP address when collecting video streams.		
Service	Note: To configure parameters, disconnect the device from the management platform and clear all configurations.		
Security	Save		
e Network >			
🛠 Maintenance >			

2. Set the parameters. Some are described in the table below.

Parameter	Description				
Channel	Select channel				
Layout	Split Type sketch				
Stream Address(Unicast)	 UDP : Set the Send IP, Receive Port TCP: Set the Client/Server , Send IP, Send Port/Receive Port , Live View/Playback, Nat SessionID RTSP:Set the RTSP stream address, Username, Password, Transmission Protocol 				
Stream Address(Multicast)	 UDP:Set the Send IP, Receive Port RTSP:Set the RTSP stream address, Username, Password, Transmission Protocol 				
RTSP stream address for format	RTSP stream address for format				



NOTE !

- TCP settings are not supported for the time being.
- The use of this function requires that the device is not connected to any platform.
- Ensure clearance of existing configurations of other management platforms for the first time.
- If this feature is no longer used, make sure that all configurations are cleared before accessing other platforms.
- Clear all configurations: Click Maintenance > Maintenance > Default.
- Refer to "Note" for stream address configuration.

Security

Set the security of the device.

Telnet

Enable Telnet if you want to access the device from a computer with Telnet. By default the admin username cannot be changed.

1. Click System > Security > Telnet.

System	~	Telnet	SNMPv3	Authentica	tion	Secure Password
Basic Info		Telnet		⊙On	⊛Off	
Time			_			
Serial		Save				
Play						
Window						
Running Mode						
Service						
Security						
e Network	>					
💥 Maintenance	>					
💥 Maintenance	>					

2. Select the check box to enable Telnet, and then click **Save**.

SNMPv3

Through SNMP the central server synchronizes audio/video channel configurations and some of the scheduled tasks to the device, and the device reports device alarms to the central server.

1. Click System > Security > SNMPv3.

System	~	Telnet SNMPv3 Authentication Secure Password
Basic Info		Username admin
Time		Authentication MD5 v
Serial		Authentication Passwo
Play		Confirm Password
Window		Encryption DES v
Running Mode		Encryption Password
Service		Confirm Password
Security		Note: This page can't be configured when running mode is ONVIF
e Network	>	Save
💥 Maintenance	>	

2. This page can't be configured.

Authentication

Select digest or null in the **Authentication** page. Digest access authentication is one of the agreed-upon methods a web server can use to negotiate credentials with server.

1. Click System > Security > Authentication.

System	~	Telnet	SNMPv3	Authentication	Secure Password
Basic Info		НТТР		Digest	•
Time			_]
Serial		Save			
Play					
Window					
Running Mode					
Service					
Security					
e Network	>				
💥 Maintenance	>				

2. Select **Digest** to enable the digest authentication, and then click **Save**.

Secure password

- 1. Click System > Security>Secure Password.
- 2. Select password mode ,and then click Save

🗘 System 🗸 🗸	Telnet SNMPv3	Authentication Secure Password
Basic Info	Password Mode	Friendly Password OEnhanced Password
Time	Friendly Password: You	must log in with a strong password except in the same network segment or three private network segments (10.X.X.X/8, 172.16.X.X/12, 192.168.X.X/16).
Serial	Enhanced Password: You	u must log in with a strong password.
Play		
Window	Save	
Running Mode		
Service		
Security		
e Network		
🛠 Maintenance 🔷 🗧		

3. Some parameters are described in the table below.

Parameter	Description
Friendly Password	You must log in with a strong password except in the same network segment or three private network segments (10.X.X.X/8、172.16.X.X/12、

Parameter	Description
	192.168.X.X/16).
Enhanced Password	You must log in with a strong password.

4 Network

Set network settings include TCP/IP and Telnet so that the device can communicate with other devices on the network.

TCP/IP

Assign a static IP address manually, or obtain one using the DHCP server.

1. Click Network > TCP/IP.

🗘 System	>	TCP/IP	
e Network	~	Working Mode	Load Balance 🗸
ТСР/ІР		Select NIC	NIC1 V
💥 Maintenance	>	IPv4 Address	209.2.192.174
		IPv4 Subnet Mask	255.255.255.0
		IPv4 Default Gateway	209.2.192.1
		IPV6Mode	manual
		IPv6 Address	2014:88:88:1:88:88:E0A8:010E
		IPV6 Subnet prefix length	64
		IPv6 Default Gateway	2014:88:88:1:1:1:1:1
		MAC Address	9A-5F-1F-28-2F-D9
		Save	

2. Set the parameters. Some are described in the table below.

Parameter	Description
Working Mode	Load Balance.
Select NIC1	Select the network interface.

Parameter	Description
IPv4 Address	Set the IP Address.
IPv4 Subnet Address	Set the subnet address.
IPv4 Default Gateway	Set the gateway.
IPv6 Mode	Set the IPv6 Mode.
IPv6 Address	Set the IPv6 Address.
IPv6 Subnet prefix length	Set the IPv6 Subnet prefix length.
IPv6 Default Gateway	Set the IPv6 Default Gateway.
MAC Address	Display the mac address.

5 Maintenance

The major functions provided on the Maintenance menu are listed in the table below.

Parameter	Description							
Device Status	View device information.							
Device Status	For more details, see Device Status .							
Cantura Daakata	Capture packets.							
Capture Packets	For more details, see Capture Packets.							
Deceding Massage	View decoding message.							
Decoding Message	For more details, see Decoding Message .							
	Restart the device.							
	Restore factory default settings.							
Maintenance	Import and export configuration file.							
Maintenance	Export diagnostic information.							
	Upgrade the software.							
	For more details, see Maintenance .							

Device Status

Click **Maintenance** > **Device Status** to view information of the device, its basic information and running status. The following shows an example.

System	>	Device Status			
e Network	>	Basic Info			
X Maintenance	~	Model			
Device Status		Serial No.	210235C1PY3800747006	Firmware Version	B8711.12.10.200515
Packet Capture		Hardware Version	В	Boot Version	GRUB 2.02
Decode Info		Running Status			
Maintenance		Running Mode	Master device		
Maintenance		Access Mode	Multi-screen Controller	Protocol	ONVIF
		System Time	2020/06/09 16:55:47		
		Running Time	7 Day(s) 2 Hour(s) 24 Minute(s)	Temperature	38℃
		CPU Usage	64%	Memory Usage	24%
		Refresh			

Capture Packets

The **Capture Packets** page can help to capture packets when some problems occurred.

1. Click Maintenance > Capture Packets.

System	>	Packet Capture
e Network	>	IP Address
X Maintenance	~	Port
Device Status		Start Stop
Packet Capture		
Decode Info		
Maintenance		

2. Set the parameters. Some are described in the table below.

Parameter	Description
IP Address	Input the device's IP address which sends the video to the decoder.
Port	Input the device's IP port which sends the video to the decoder.

3. Click Start.

- 4. Wait for a moment, click Stop.
- 5. Save the packets in your computer.

Decode Message

Click **Maintenance** > **Decode Message** to view decoding information. The following shows an example.

System	>	Deco	de Info															
e Network	>	Ref	resh															
🛠 Maintenance	~	No.	Wall Name	Win ID	Split Scrn No	Source	Src Port	Dst Port	Protocol	Resolution	Frame Rate	Video	Audio	Format	Realtime Packet Loss Rate	Total Packets Lost	Total Packets Received	Operation
Device Status		1	160	1	1	209.2.101.187	11650	10694	TCP	1920*1080	60	H.264	G.711A	TS	0	0	319430557	φ
Packet Capture		2	160	1	2	209.2.101.187	11652	10696	TCP	1920*1080	60	H.264	G.711A	TS	0	0	319430463	φ
Decode Info		3	160	1	3	209.2.101.187	11654	10698	тср	0*0	0				0	0	0	φ
Maintenance		4	160	1	4	209.2.101.187	11656	10700	тср	0*0	0				0	0	0	φ
		5	160	2	1	0.0.0.0	0	0		0*0	0				0	0	0	φ
		6	160	3	1	0.0.0.0	0	0		0*0	0				0	0	0	φ
		7	160	4	1	0.0.0.0	0	0		0*0	0				0	0	0	φ

Parameter	Description
NO.	The number of the information.
Wall Name	Show the Wall Name.
Win ID	Show the window ID.
Split Scrn NO.	Show the split screen ID.
Source	Show IP address of the source.
Scr Port	Show the port of the source.
Destination	Show IP address of the destination.
Dst Port	Show the port of the destination
Protocol	The transmission protocol of the network.
Resolution	The resolution of the video.
Frame Rate	The rate of the frame.
Video Compression	The video compression
Audio Formats	The audio compression.
Encapsulation	The encapsulation of the video.
Realtime Packet Loss Rate	The rate of the lost packet.
Total Packet Lost	The total number of the lost packets.
Total Packet Received	The total number of the packets.
Operation	Click to refresh the decode information.

The information is listed in the table below.

Maintenance

Click **Maintenance** > **Maintenance** and then perform maintenance operations as needed. You can restart the device, restore some factory default settings, import and export configuration files, export diagnostic information, auto restart, and upgrade the device.

🔅 System	>	Maintenance
e Network	>	Restart Restart device
🛠 Maintenance	~	Default Keep the current network and user settings and restore other settings to factory defaults.
Device Status		Export Export configuration file
Packet Capture		Export Export diagnostic information
Decode Info		Auto Restart Never V 00:00 V OK
Maintenance		Configurations 🗐 Import
		Local Upgrade 🗐 Upgrade
		Note: Do not disconnect power or perform any other operation during upgrade.