High Definition Video Decoder User Manual

Manual Version: V1.02

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

Trademark Acknowledgement

The trademarks, company names and product names contained in this manual are the property of their respective owners.

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
warning!	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.

Contents

1 Introduction ······1
2 Login 1
3 System 2
Basic2
Time3
Serial ······4
RS2324
RS4855
Play6
Window7
Running Mode8
Service8
Video Output ······9
Media Stream ······9
Security ······10
Telnet 10
SNMPv311
Authentication 12
Secure password12
4 Network
TCP/IP13
5 Maintenance 14
Device Status
Capture Packets15
Decode Message16
Maintenance17

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.

	L Please input username
XX	Please input password
	Login

2. Log in with the correct username and password.

นกิง					ADU8612-E	1 admin	Change Password	Logout
System	~	Basic Info						
Basic Info		Model	ADU8612-E					
Time		Serial Number	210235C2WU3181000045					
Serial		Firmware Version	B8780P10					
Play		Hardware Version	A					
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.

System	~	Basic Info	
Basic Info		Model	ADU8612-E
Time		Serial Number	210235C2WU3181000045
Serial		Firmware Version	B8780P10
Play		Hardware Version	A
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 > Tir	me.			
0	System	~	Time		
	Basic Info		Time Zone	(GMT+08:00) Beijing, Hong Kong ▼	
	Time		System Time	2019-4-24 09:33:36 AM	
	Serial		Auto Update	On ⊛Off	
	Play				
	Window		Save		
	Running Mode				
	Service				
	Security				
е	Network	>			
×	Maintenance	>			
0	System	~	Time		
	Basic Info		Time Zone	(GMT+08:00) Beijing, Hong F 🔻	
	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 Service		Update Interval	0 Min 🔻	
	Security		Save		
е		>			
*		>			

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.

Parameter	Description
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 >		

3. Click Save.

4. Some parameters are described in the table below.

Parameter	Description
NO.	Select the serial port to set.

Parameter	Description
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 💦 🗧		

- 3. Click Save.
- 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.		

Parameter	Description
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 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.

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

~	Play	
	Play Mode	Real Time Priority
	Save	
>		
>		
	>	Play Mode Save

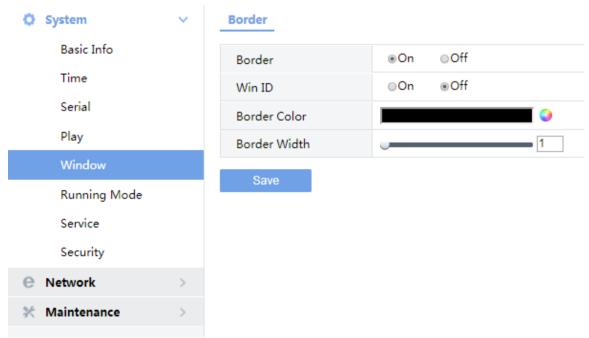
2. The following is the setting of the playmode set to a Fluency Priority.

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

3. Click Save.

Window

- Set window border
- 1. System > Window.



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

Parameter	Description
Boder	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	
Basic Info	Running Mode	Master device
Time	Protocol	ONVIF •
Serial		
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 T
Time		Split Type	1
Serial		Standard	1920x1080@60 ▼
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 Str	ream
Basic Info		Channel	Channel1 •
Time		Layout	
Serial		Stream Address(Win1)	Unicas V UDP V Client V Send IP 0.0.0 Receive Port 0 Live V/ V NAt SessionId
Play		RTSP stream address for	rtsp://206.8.0.10:554/media/video1
Window		Save	
Running Mode			
Service			
Security			
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(Unica)	 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					

3. Click Save.



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.

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.

0	System	~	Telnet	SNMPv3	Authentica	tion	Secure Password
	Basic Info		Telnet		⊙On	⊛ Off	
	Time			_			
	Serial		Save				
	Play						
	Window						
	Running Mode						
	Service						
	Security						
е	Network	>					
*	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	>	ТСР/ІР	
e Network	~	Working Mode	Load Balance 👻
ТСР/ІР		Select NIC	NIC1
💥 Maintenance	>	IPv4 Address	204.12.3.51
		IPv4 Subnet Mask	255.255.0.0
		IPv4 Default Gateway	204.12.1.1
		MAC Address	66-E0-79-4A-B4-88
		Save	

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

Parameter	Description
Working Mode	Load Balance.
Select NIC1	Select the network interface.
IPv4 Address	Set the IP Address.
IPv4 Subnet Address	Set the subnet address.
IPv4 Default Gateway	Set the gateway.
MAC Address	Display the mac address.

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

3. Click Save.

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 .							
Packats Captura	Capture packets.							
Packets Capture	For more details, see Packets Capture .							
Deceding Info	View decoding message.							
Decoding Info	For more details, see Decoding Info .							
	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	
Network	>	Basic Info	
Maintenance	~	Model	ADU8612-E
Device Status		Serial Number	210235C2WU3181000045
Packet Capture		Firmware Version	B8780P10
Decode Info		Hardware Version	А
Maintenance		Boot Version	GRUB 2.02
mantenance		Running Status	
		Running Mode	Master device
		Access Mode	Multi-screen Controller
		Protocol	ONVIF
		System Time	2019/04/24 09:40:26
		Running Time	0 Day(s) 1 Hour(s) 16 Minute(s)
		Temperature	38℃
		CPU Usage	3%
		Memory Usage	19%
		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
🛠 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															
Network	>	Ref	resh															
K 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	тs	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	TCP	0*0	0				0	0	0	φ
Maintenance		4	160	1	4	209.2.101.187	11656	10700	TCP	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	з	1	0.0.0.0	0	0		0*0	0				0	0	0	φ
		7	160	4	1	0.0.0.0	0	0		010	0				0	0	0	φ

The information is listed in the table below.

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.		

Parameter	Description		
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.		

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, and upgrade the device.

System	>	Maintenance		
e Network	>	Restart	Restart device	
X Maintenance	~	Default	Keep the current network and user settings, restore others to factory default settings	
Device Status		Export	Export configuration file	
Packet Capture		Export	Export diagnostic information	
Decode Info		Configurations	Import	
Maintenance		Upgrade	Upgrade	
		Notice: Do not disconnect power or perform any other operation during upgrade.		