

# SHENZHEN URAY TECHNOLOGY H.265 USER MANUAL



# User Manual



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## Preface

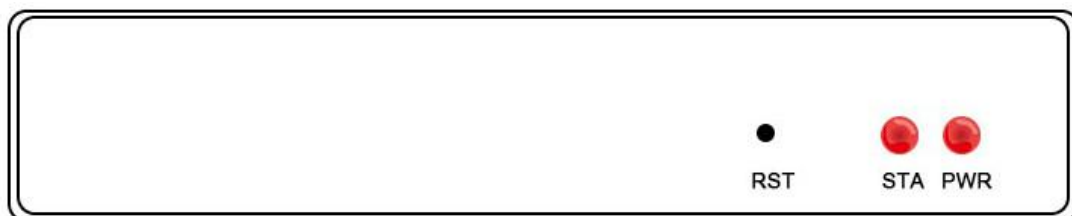
Many thanks for your support to URayTech video encoder and video decoder.

For optimum performance, please read the instruction before connecting or operating the device. Please keep this manual for future reference.

## 1. Hardware Description



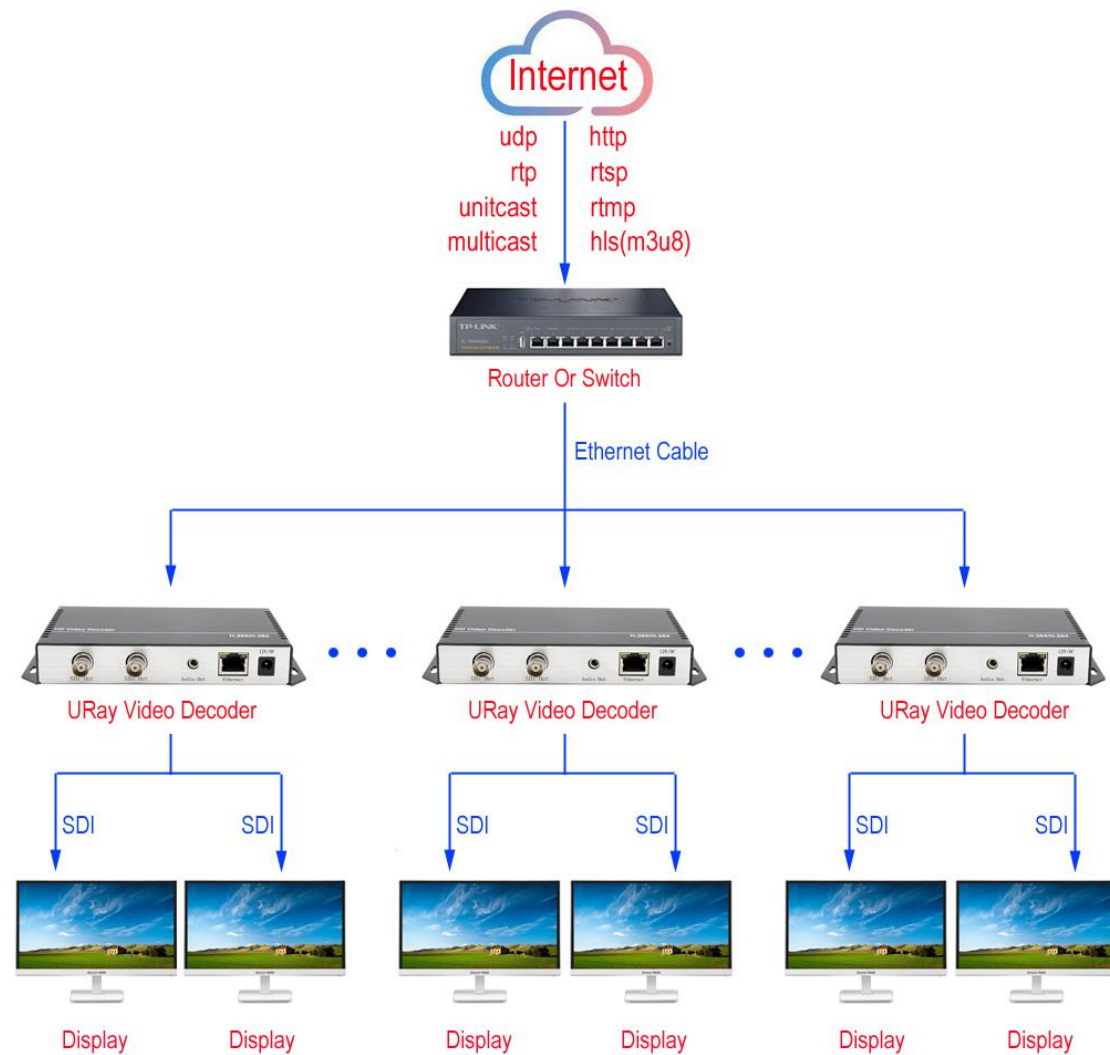
- SDI Out1: SDI output. For connecting to the device which has SDI interface
- SDI Out2: SDI output. For connecting to the device which has SDI interface
- Audio Out: External stereo audio output(3.5mm jack)
- Ethernet: Ethernet port. For connecting to router or switch by Ethernet cable
- 12V /DC: For connecting to 12V /1A power adapter



- RST: Reset hole. There is a reset button in the hole of 'RST'
- STA: The Indicator light of 'STA' twinkles slowly when the decoder is decoding video stream URL normally
- PWR: Indicator light of power input

## 2. Typical Connection

- Step 1. Connect the decoder to 12V /1A power adapter
- Step 2. Connect the decoder to router or switch by Ethernet cable
- Step 3. Connect the decoder to SDI displayer by BNC cable



## 3. Connection Configuration

### 3.1 Reset

Insert a needle into the 'RST' hole and press the reset button, the indicator light of 'STA' will twinkle fast. When the indicator light of 'STA' is off, reset successful. All parameters will

be initialized.

The default IP address of the control panel is 192.168.0.35

The default log in ID and password is 'admin'

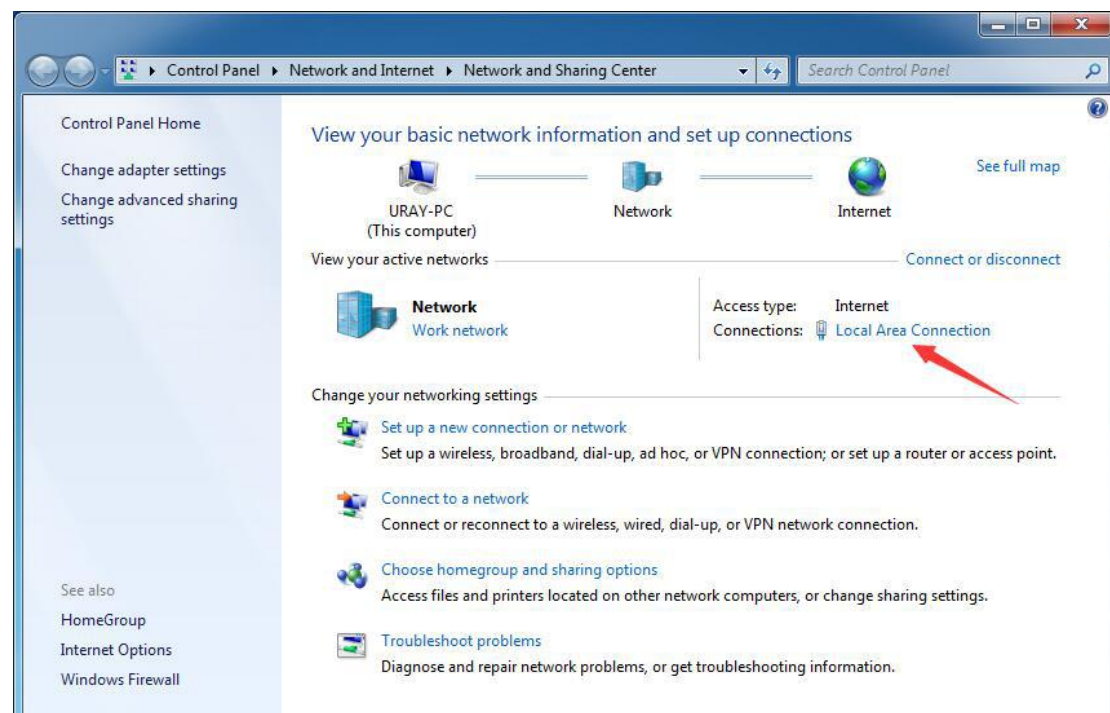
## 3.2 Log In Control Panel

Most of customers can't log in the control panel of video decoder by directly enter 192.168.0.35 in browser. The reason is that the IP address of video decoder(192.168.0.35) and IP address of PC(laptop) are not in the same network segment, they can not communicate each other. In order to log in the control panel of video decoder, we need to change the IP address of PC(laptop) first.

Step 1. Connect the video decoder to router or switch by Ethernet cable

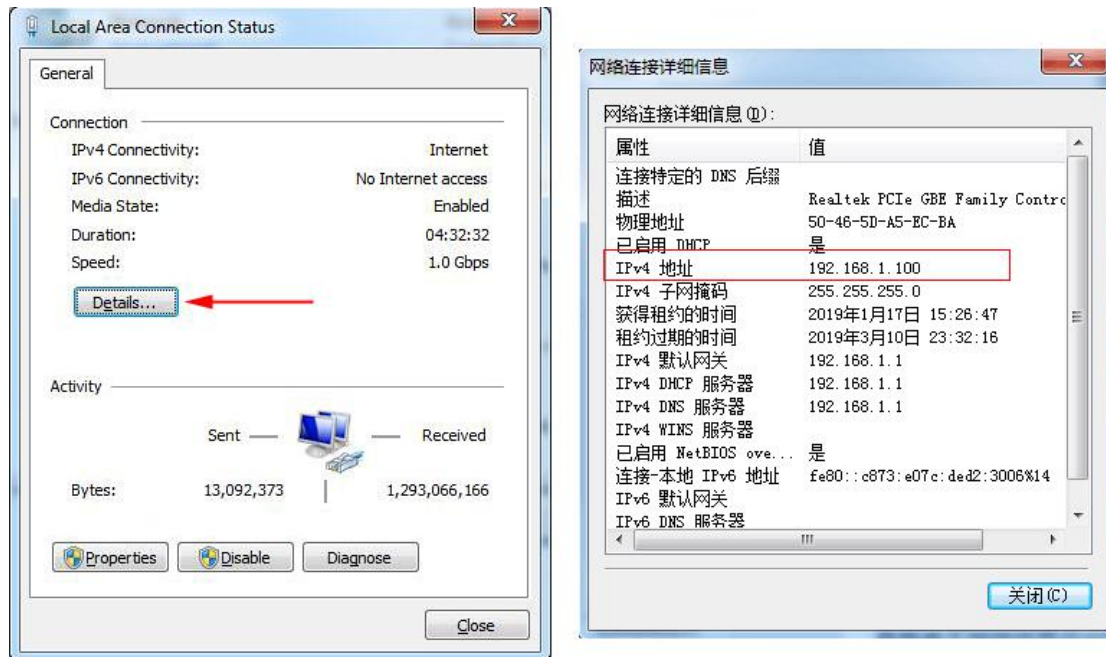
Step 2. Connect a PC(laptop) to the same router or switch. Open the window of <Network and Sharing Center> in PC(laptop)

Step 3. Click "Local Area Connection"



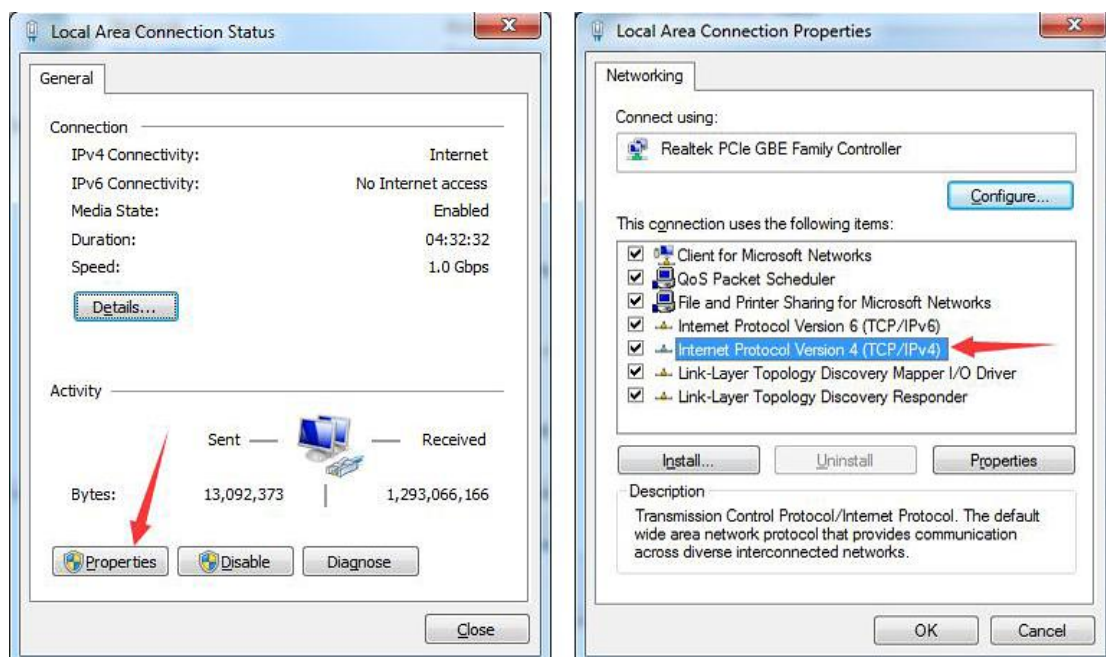
#### Step 4. Click "Details"

You can see the IP address and default gateway of your PC(laptop) here. For example, the IP address of my PC(laptop) is 192.168.1.100, the gateway of of my PC(laptop) is 192.168.1.1. Please remember the IP address and default gateway of your PC(laptop), it will be used in step 10.



#### Step 5. Click "Properties"

#### Step 6. Double click "Internet Protocol Version 4(TCP /IPv4)"

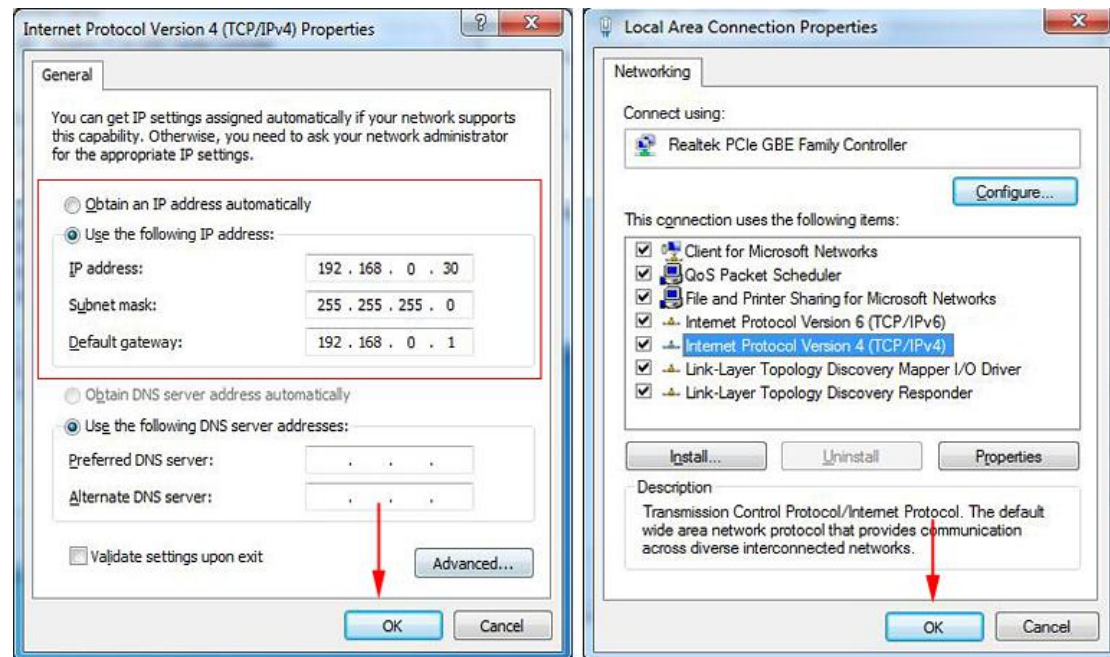


Step 7. Choose “Use the following IP address”

Step 8. Change the IP address of PC(laptop), and click “OK”

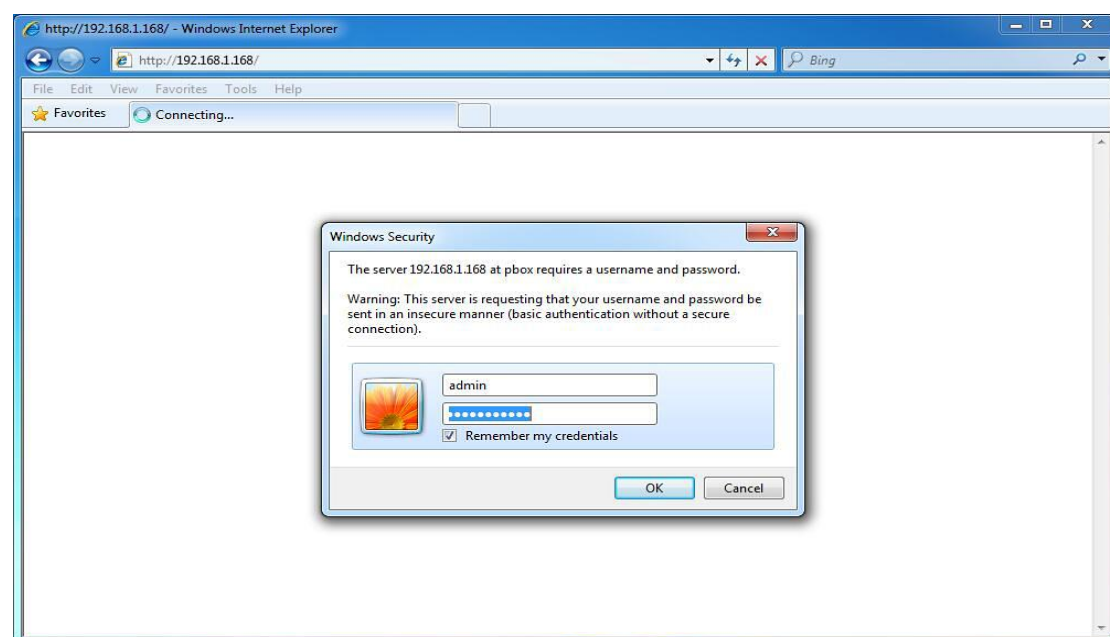
You can set the IP address to 192.168.0.\*\* (\*\* is a number from 2 to 255 except for 35)

and set the default gateway to 192.168.0.1.



Step 9. Log in the control panel of video decoder 192.168.0.35

The default ID and password is “admin”.





Now you can log in the control panel of video decoder, but you can't use your PC(laptop) in wide area network. So now you need to change the IP address of video decoder.

#### Step 10. Change the IP address of video decoder

In step 4, you already knew the IP address and default gateway of your PC(laptop). Use my example, the IP address of my PC(laptop) is 192.168.1.100, the gateway is 192.168.1.1. So I can change the IP address of video decoder to 192.168.1.\*\* (\*\* is a number from 2 to 255 except for 100), and change the default gateway to 192.168.1.1. Click 'Set up' after finish the setting.

Please refer to the IP address of your PC(laptop) before changing IP of video decoder.

Network Settings

Network settings

Net type: Ethernet

DHCP: Disable

IP: 192.168.1.168

Netmask: 255.255.255.0

Gateway: 192.168.1.1

DNS0: 192.168.0.1

DNS1: 192.168.0.1

MAC: 00:11:19:03:18:28

Set up

#### Step 11. Click 'Reboot' to reboot the video decoder

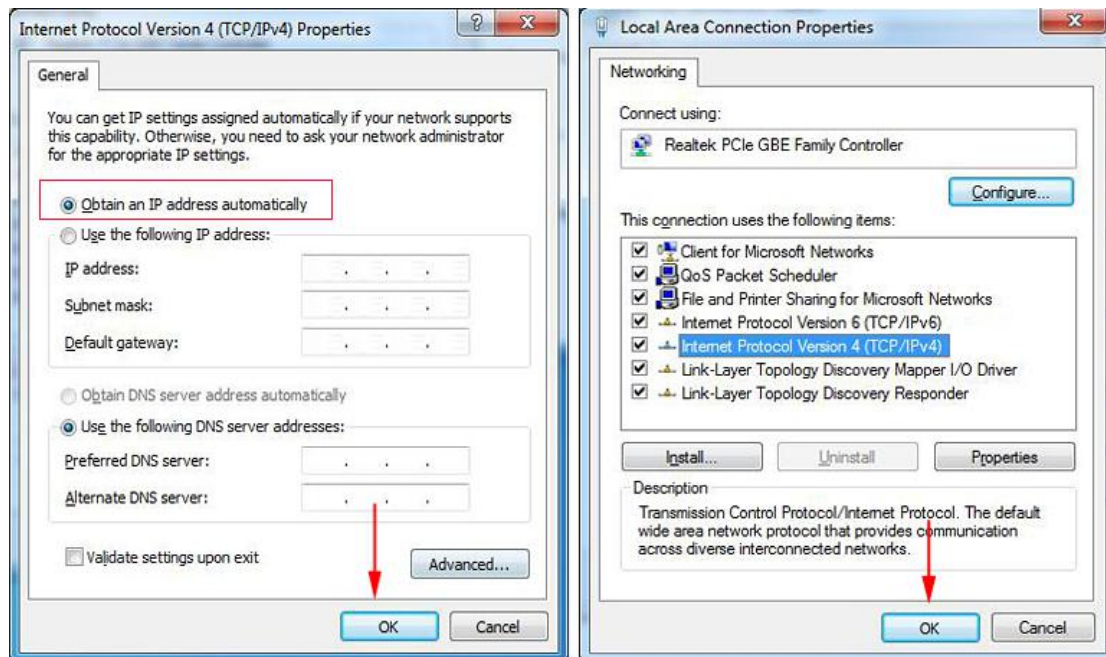
System settings

Reboot

Reset

Status Network Decoder setting System

Step 12. Choose “Obtain an IP address automatically”, and then click “OK”



Congratulation! You can use the PC(laptop) in wide area network and log in the control panel of video decoder simultaneously. Please remember IP address of video decoder.

## 4. Decoder Setting

### 4.1 Status

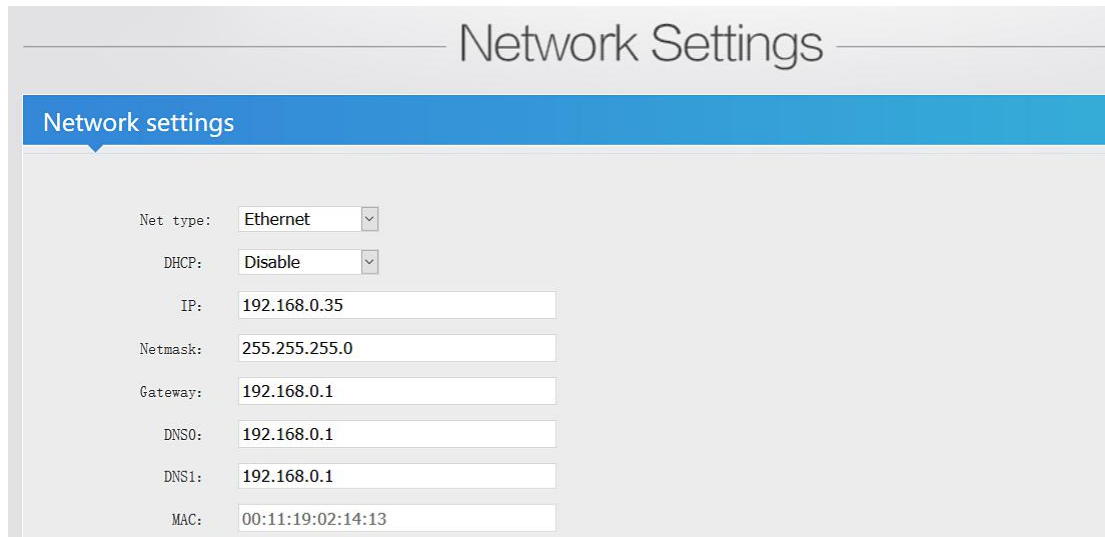
You can see the input status and output status here.

**Input status**  
  
Media url:  
Video input:  
Audio input:

**Output status**  
  
Interface:SDI  
Resolution:1080P@60

## 4.2 Network

- DHCP: If you choose 'enable', the IP address of video decoder will be random
- IP: You can change the log in IP address of video decoder here
- Gateway: You can change the gateway of video decoder here



The screenshot shows a web interface titled "Network Settings". Below the title is a blue header bar with the text "Network settings". The main content area contains several configuration fields:

- Net type: A dropdown menu with "Ethernet" selected.
- DHCP: A dropdown menu with "Disable" selected.
- IP: A text input field containing "192.168.0.35".
- Netmask: A text input field containing "255.255.255.0".
- Gateway: A text input field containing "192.168.0.1".
- DNS0: A text input field containing "192.168.0.1".
- DNS1: A text input field containing "192.168.0.1".
- MAC: A text input field containing "00:11:19:02:14:13".

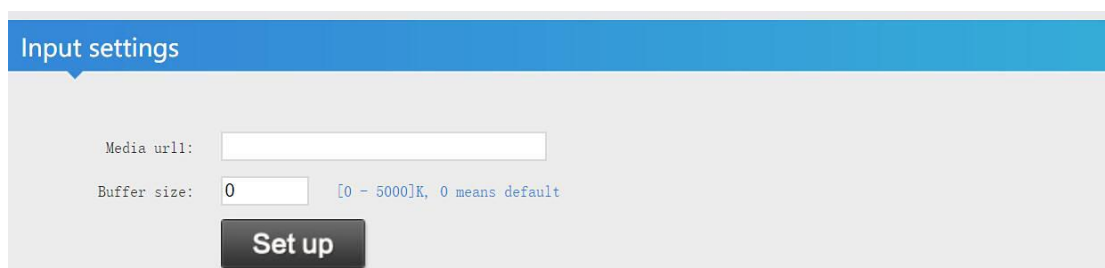
## 4.3 Decoder Setting

### 4.3.1 Input Settings

- Media url: Enter the video stream URL that you want to decode

If you fail to decode the video stream address or there is no video output, please use VLC software to test if the video stream URL is working in VLC.

- Buffer size: The range of buffer size is from 0 to 5000. The lower the number entered, the less time delay(For good network condition); The higher the number entered, the smoother the video playback(For not good network condition)



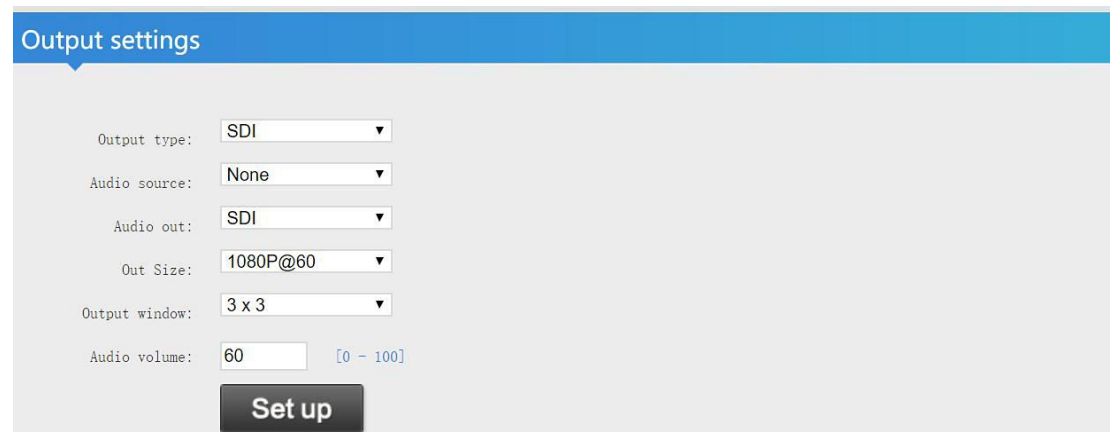
The screenshot shows a web interface titled "Input settings". Below the title is a blue header bar with the text "Input settings". The main content area contains two configuration fields:

- Media url: A text input field.
- Buffer size: A text input field containing "0". To the right of the field is a small text label: "[0 - 5000]K, 0 means default".

Below the fields is a dark grey button with the text "Set up".

### 4.3.2 Output Settings

- **Audio Source:** You can choose audio source from Media url1 to Media url9 as output audio. If choose 'None', no audio output.
- **Audio Out:** If choose 'SDI', there is no audio output from 3.5mm external audio interface; If choose 'SDI+audio', audio output from both SDI and external audio interface
- **Out Size:** You can adjust the resolution of output displayed video here
- **Output Window:** If choose 1x1, the decoder decode 1 video stream URL and output one displayed video; if choose 2x2, the decoder decode 4 video stream URL and output four displayed video simultaneously(Four split screen); if choose 3x3, the decoder decode 9 video stream url and output nine displayed video simultaneously(Nine split screen)



### 4.3.3 OSD Settings

You can change the shown image when there is no signal. The recommend size is 1280x720. The recommend format is .jpg.

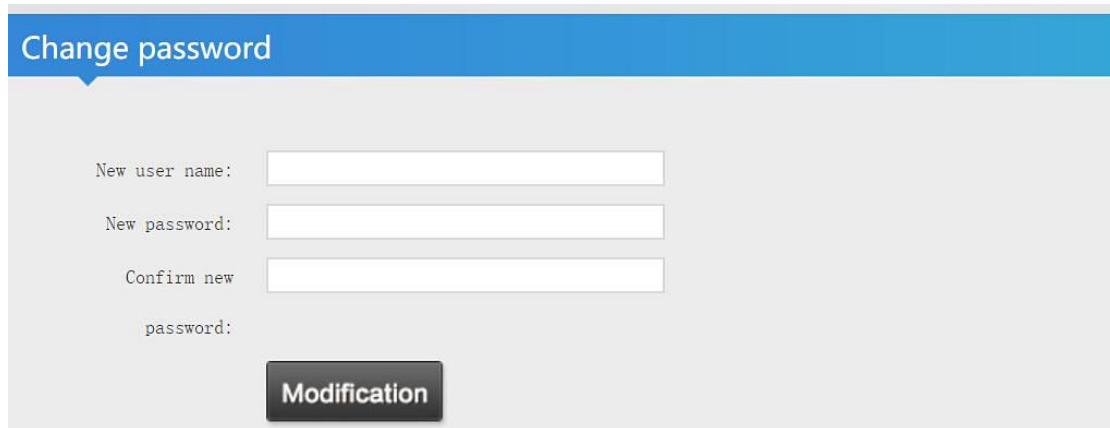


## 4.4 System

### 4.4.1 Change Password

You can change the log in ID and password.

The default ID and password is "admin".



The screenshot shows a web interface titled "Change password" in a blue header. Below the header, there are four input fields: "New user name:", "New password:", "Confirm new", and "password:". Each field is followed by a white text input box. At the bottom center, there is a dark grey button with the text "Modification" in white.

### 4.4.2 System Information

You can see the firmware version of video decoder here.

Please send us the screenshot of the firmware version if you need new firmware.



The screenshot shows a web interface titled "System information" in a blue header. Below the header, there are three rows of information: "Device SN:" with the value "19031828", "Firmware ver:" with the value "1.0.0 standard 20190221", and "Hardware ver:" with the value "DEC V200". Each row consists of a label followed by a white text input box containing the value.

### 4.4.3 Auto Reboot



The screenshot shows a web interface titled "Auto reboot" in a blue header. Below the header, there is a label "Auto reboot:" followed by a dropdown menu showing "Disable" with a downward arrow. At the bottom center, there is a dark grey button with the text "Set up" in white.

#### 4.4.4 Upgrade Setting

Please upload the entire .rar file.

Please don't upgrade the wrong firmware, otherwise it is easy to make the device dead.



The screenshot shows a web interface titled "Upgrade settings" in a blue header. Below the header, the text "Upgrade system:" is followed by a file selection button labeled "选择文件" (Select File) and a status indicator "未选择任何文件" (No file selected). To the right of the status indicator is a warning message in red: "(do not multip uploading, do not power off or refresh the page)". Below these elements is a large, dark grey "Upload" button.

#### 4.4.5 System Setting

Reboot: Please reboot the device after you have changed the setting.

Reset: All parameters will be initialized after you click 'Reset'.

The default IP address of video decoder is 192.168.0.35, and the default log in ID and password is 'admin'.



The screenshot shows a web interface titled "System settings" in a blue header. Below the header, there are two buttons: a dark grey "Reboot" button and an orange "Reset" button.

## 5. Contact Us

If you still have problem of using the device after reading this user manual, please contact us. We will arrange an engineer to help you solve the problem.

Here is the contact method of Linda.

Linda Zheng

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