

H.265/264 Video Decoder Manual

V1.5 20220810

H.265 4K HDMI VGA CVBS Video Decoder



H265 4K HDMI SDI VGA CVBS Video Decoder



1U Rack-mounted H.265 4K HDMI VGA SDI/CVBS Video decoder



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1. Environment Settings

1.1. Hardware Interface

1.1.1 Front Side view



From Right to Left:

- ① DC5-12V: 5V 2A or 12V 1A
- ② Ethernet: 1000 Mbit/s full-duplex
- ③ HDMI Output
- ④ VGA Output
- ⑤ SDI Output
- ⑥ Analog 3.5mm jack Audio Output
- ⑦ RST: Reset button

1.1.2 Back Side view



- ① P-Power indicator
- ② E- Ether Network
- ③ V-Video Output
- ④ CVBS output

2. Management Settings

2.1 Login

By <http://192.168.1.169> (default IP) to login the decoder, default user name and password are **admin**.

2.2 Address setting - Input Streaming URL

Max can input 4 streaming address, and output 4 video windows in 1 display

Tips, below 'username' is authentication username, 'password' is authentication password. Do not fill in 'username:password@' if no authentication required.

Decoder as client mode - pull stream from other devices / media streaming server,

`http://username:password@192.168.1.168/0.ts`

`http://username:password@192.168.1.168/0.flv`

`http://username:password@192.168.1.168/0.m3u8`

`rtsp://username:password@192.168.1.168/0` [RTSP OVER TCP]

`rtsp://username:password@192.168.1.168/0?udp` [RTSP OVER UDP]

`rtmp(s)://username:password@192.168.1.168/live/0`

`udp://238.0.0.1:1234`

..... etc.,

Decoder as rtmp server, other device/software push rtmp to decoder,

device/software push rtmp to decoder url: `rtmp://decoder ip:port/live/stream name` i.e.

`rtmp://192.168.1.169:1935/live/test` here, the application name must be 'live', you may not need to fill in the rtmp default port 1935.

Decoder play url: `rtmp://192.168.1.169:1935/live/test` or `rtmp://127.0.0.1/live/test`

For SRT

Decoder as Listener mode

`srt://decoder ip:port?mode=listener&smoother=live&pbkeylen=16&passphrase=passphrase`

i.e., `srt://0.0.0.0:9000?mode=listener&smoother=live&pbkeylen=16&passphrase=0123456789`

or `srt://:9000?mode=listener&smoother=live&pbkeylen=16&passphrase=0123456789`

or `srt://@:9000?mode=listener&smoother=live&pbkeylen=16&passphrase=0123456789`

SRT - Caller mode

`srt://encoder ip:port?smoother=live&pbkeylen=16&passphrase=passphrase`

i.e., `srt://192.168.1.168:9000?smoother=live&pbkeylen=16&passphrase=0123456789`

The screenshot shows the 'Address setting' configuration page. On the left, there is a sidebar with three menu items: 'Status', 'Address setting' (which is selected), and 'System setting'. The main content area has a blue header 'Address setting'. Below the header, there is a 'decode' dropdown menu with the value '4'. Underneath, there are four rows, each representing a channel. Each row has an 'addr' input field and an 'audio' toggle. The first row is 'channel1 addr' with the value 'http://192.168.1.168/0.ts' and the audio toggle is turned on. The second row is 'channel2 addr' with the value 'rtsp://192.168.1.168:8554/0' and the audio toggle is turned off. The third row is 'channel3 addr' with the value 'udp://@238.0.0.1:1234' and the audio toggle is turned off. The fourth row is 'channel4 addr' with the value 'rtmp://192.168.1.50:1935/live/h264' and the audio toggle is turned off. At the bottom center, there is a dark grey button labeled 'Set up'.

2.3 System setting

2.3.1 System output

**4K Decoder
H.265/H.264**

Language: English

Video Output Setting

System output

HD output: 2160P30 the same as input source

CVBS output: PAL

rotate : 0 degree

brightness: 50

contrast: 50

hue: 50

saturation: 50

1080P60
480P60
576P50
720P50
720P60
1080P25
1080P30
1080I50
1080P50
1080I60
1080P60
1440P30
2160P30

Set up

2.3.2 Network Setting

Settle the decoder IP address according with your router; please reboot the decoder once settled.

Network setting

IP: 192.168.1.169

mask: 255.255.255.0

gateway: 192.168.1.1

mac: 00:13:14:15:C7:A5

dns1: 192.168.1.1

dns2: 8.8.8.8

Set up

2.3.3 Password Setting

Change the password – default user name and password are admin.

The screenshot shows a web interface for password settings. On the left is a navigation menu with the following items: Status, Address setting, System setting (highlighted), Network setting, Passwd setting (highlighted with a left-pointing arrow), System output, System update, Reset device, and Reboot device. The main content area is titled "Passwd setting" and contains three input fields: "old pwd:", "new pwd:", and "new pwd:". Below the input fields is a dark button labeled "Modification".

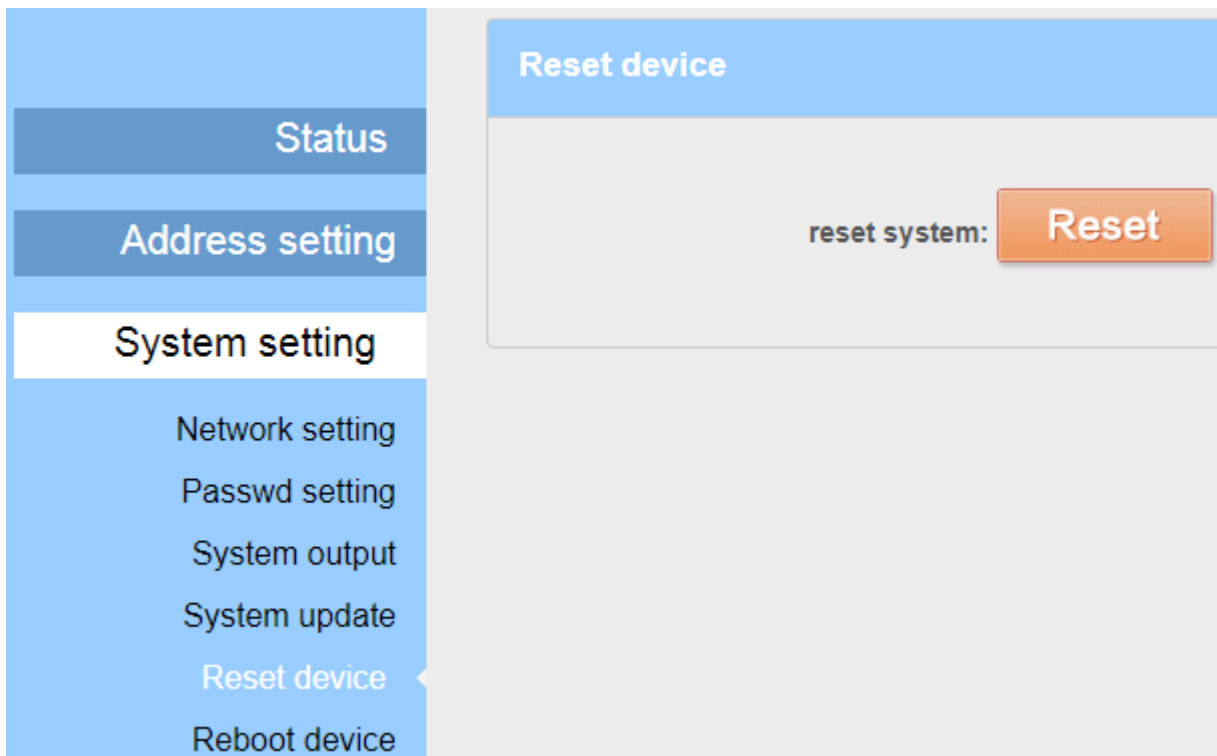
2.3.4 System Update

Ensure the Upgrade file name is up.rar. Please don't upload by different people at the same time, don't power off or refresh the page during upload.

The screenshot shows a web interface for system updates. On the left is a navigation menu with the following items: Status, Address setting, System setting (highlighted), Network setting, Passwd setting, System output, System update (highlighted with a left-pointing arrow), Reset device, and Reboot device. The main content area is titled "System update" and displays "current version: 1.32". Below this is a "choose file:" label followed by a text input field and a dark button labeled "Browse". Below the input field is a dark button labeled "Upload". At the bottom, there is a warning message: "warning: Upgrade file name is up.rar. Please dont upload time,dont power off or refresh the page during u".

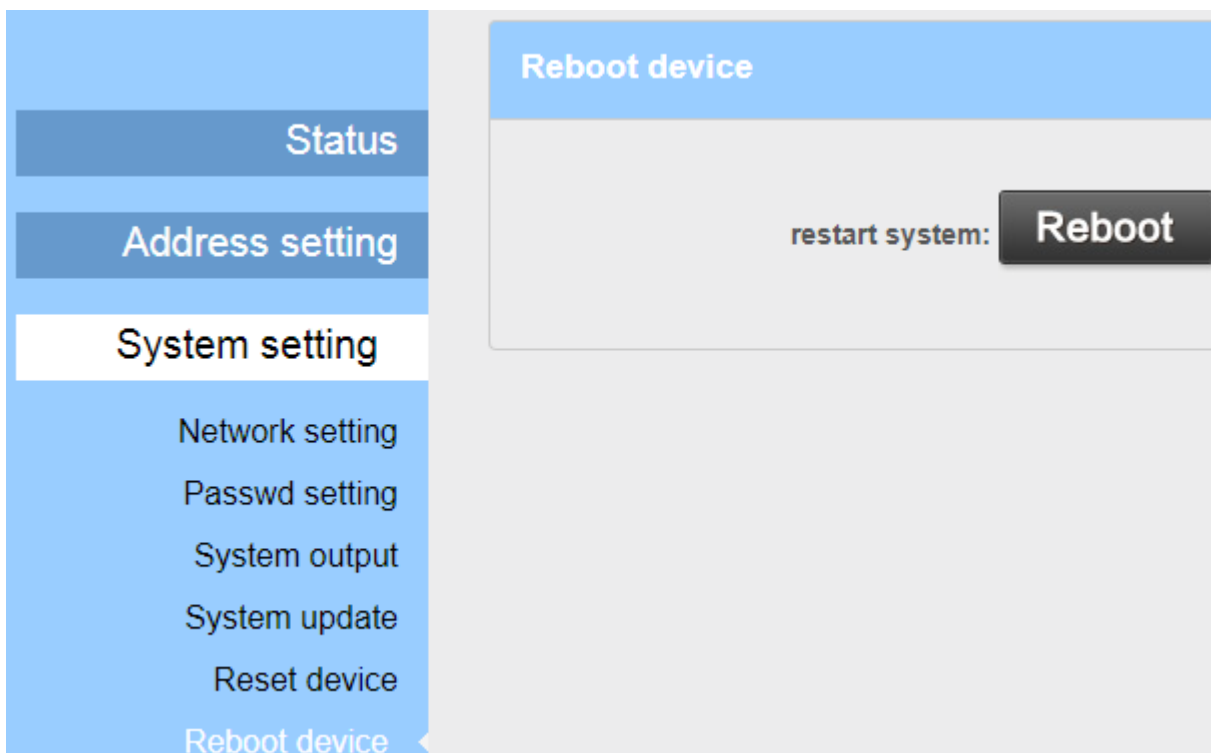
2.3.5 Reset device

After reset the device, all settings will roll back to factory settings.



2.3.6 Reboot Device

After your settings settled, then click the reboot button to make them work.



2.4 Status

2.4.1 System Status

After all settings settled, from the status page, you can check each channel output video status, if any error, please ensure the streaming URL is correct.



**4K Decoder
H.265/H.264**

Status

Address setting

System setting

Status

System status

runtime: 0000-00-00 00:15:03
cpu usage: 0%
mem usage: 23MB/253MB
output format: 1080P60
decode wndnum: 1

Channel1

addr: <http://192.168.1.168/0.ptc>
status: normal
frame rate(fps): 60
code rate(kbit/s): 3412

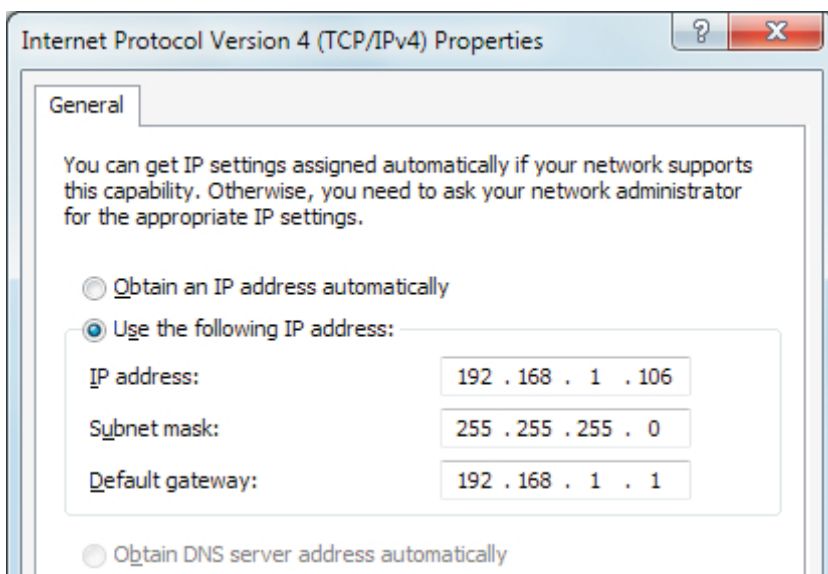
3. FAQ

3.1 How to reset the decoder?

Click the reset menu to reset it or by hardware reset, power on the decoder & hold the RST button around 10 seconds till the status led off, then release it, the decoder will be initialized.

3.2 I login the decoder control panel or ping it.

- 1) Ensure the decoder IP with your router in same gateway, such as Decoder IP is 192.168.1.169, but your router IP is 192.168.0.1 or else, in this situation, you need connect the decoder with your computer directly, and set the computer IP to 192.168.1.106, then login the decoder control panel – System setting – Network setting to set its IP to 192.168.0.169, click Apply, and reboot the decoder.
- 2) Connect the decoder with your router or switch, change back your computer IP.
- 3) If still not works, pls contact us.



3.3 I can't watch the video on TV/Display.

Please ensure the IP streaming url is correct, and network works.