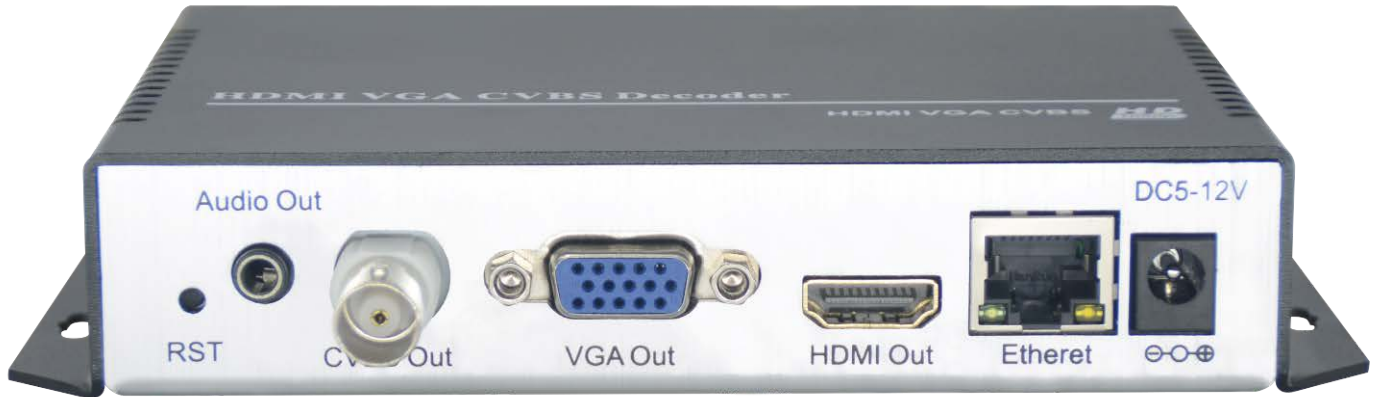


H.265/264 Video Decoder Manual

V1.6 20230511

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

<udp://username:password@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 port if server rtmp port is 1935 as default.

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

For SRT

Decoder as Listener mode

<srt://:port?mode=listener&smoother=live>

<srt://decoder i:9000?mode=listener&smoother=live>

i.e., <srt://0.0.0.0:9000?mode=listener&smoother=live>

or <srt://:9000?mode=listener&smoother=live>

or <srt://@:9000?mode=listener&smoother=live>

SRT - Caller mode

<srt://encoder ip:port?smoother=live>

i.e., <srt://192.168.1.168:9000?smoother=live>

2.3 System setting

2.3.1 System output

4K Decoder H.265/H.264

Status

Address setting

Advance setting

System setting

- Network setting
- Serial to TCP
- Passwd setting
- System output
- Factory setting
- Upgrade & Backup
- Reset device
- Reboot device
- Schedule Restart

System output

Play mode: Real time

Decode mode: Frame

HD output: 1080P60 the same as input source

HDMI color: 576P50

CVBS output: 720P50

CVBS show X : [0,720]

CVBS show Y : [0,576]

CVBS show W : [0,720]

CVBS show H : [0,576]

Rotate : 0 degree

Scaling: Disable

Brightness: 50

Contrast: 50

Hue: 50

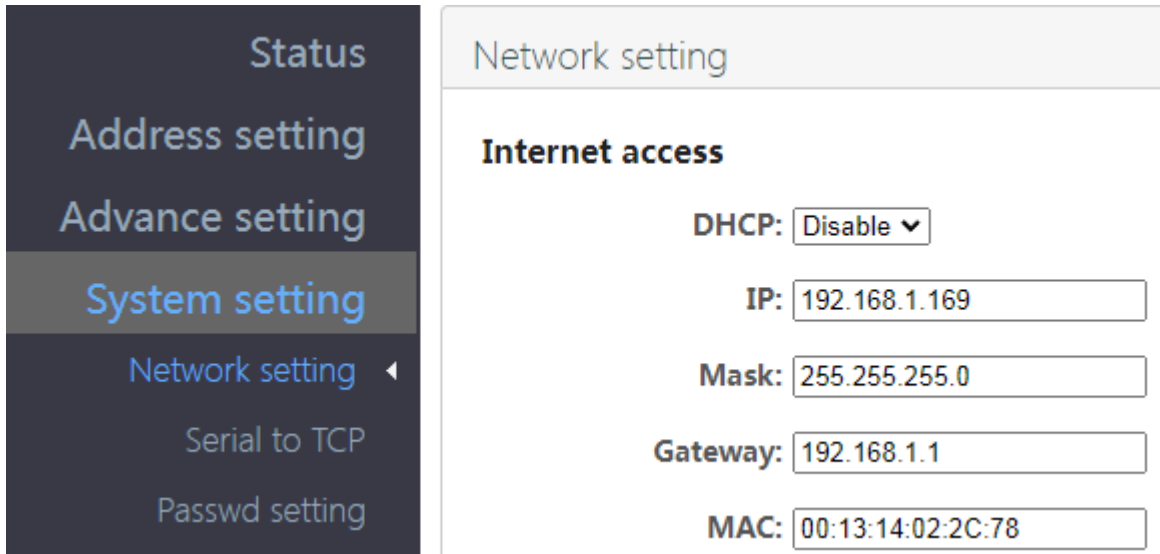
Saturation: 50

Volume: 100

Apply

2.3.2 Network Setting

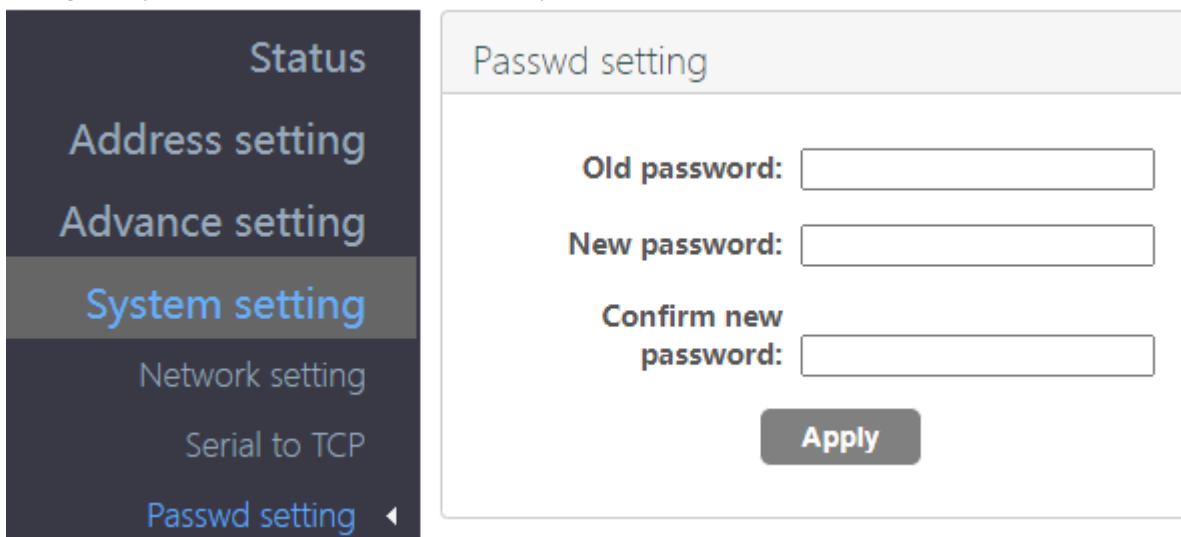
Settle the decoder IP address according with your router; please reboot the decoder once settled.



The screenshot shows a web interface for network configuration. On the left is a dark sidebar menu with the following items: Status, Address setting, Advance setting, System setting (highlighted in blue), Network setting (with a left-pointing arrow), Serial to TCP, and Passwd setting. The main content area has a light gray header titled 'Network setting'. Below the header is a section titled 'Internet access' containing five configuration fields: 'DHCP:' with a dropdown menu set to 'Disable', 'IP:' with the value '192.168.1.169', 'Mask:' with the value '255.255.255.0', 'Gateway:' with the value '192.168.1.1', and 'MAC:' with the value '00:13:14:02:2C:78'.

2.3.3 Password Setting

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



The screenshot shows a web interface for password configuration. On the left is a dark sidebar menu with the following items: Status, Address setting, Advance setting, System setting (highlighted in blue), Network setting, Serial to TCP, and Passwd setting (with a left-pointing arrow). The main content area has a light gray header titled 'Passwd setting'. Below the header are three input fields: 'Old password:', 'New password:', and 'Confirm new password:'. At the bottom of the form is a dark gray button labeled 'Apply'.

2.3.4 Firmware Upgrade & Backup

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.

- Status
- Address setting
- Advance setting
- System setting**
- Network setting
- Serial to TCP
- Passwd setting
- System output
- Factory setting
- Upgrade & Backup

Upload firmware and configuration

Version: 1.62.8

Select file: **Scan...** **Upload**

Warning: File name is up.rar or box.ini. Please dont upload by differe same time, dont power off during upload.

Backup firmware and configuration

Firmware **Configuration**

2.3.5 Reset device

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

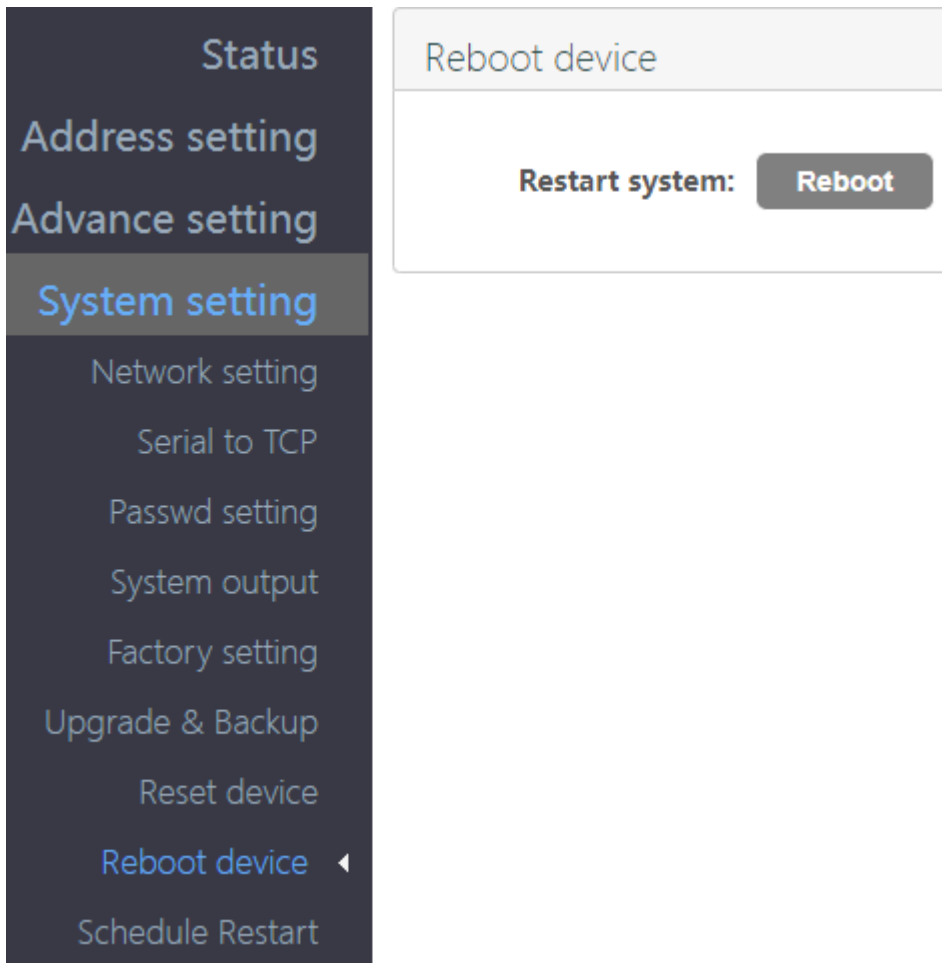
- Status
- Address setting
- Advance setting
- System setting**
- Network setting
- Serial to TCP
- Passwd setting
- System output
- Factory setting
- Upgrade & Backup
- Reset device**
- Reboot device
- Schedule Restart

Reset device

Reset system: **Reset**

2.3.6 Reboot Device

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

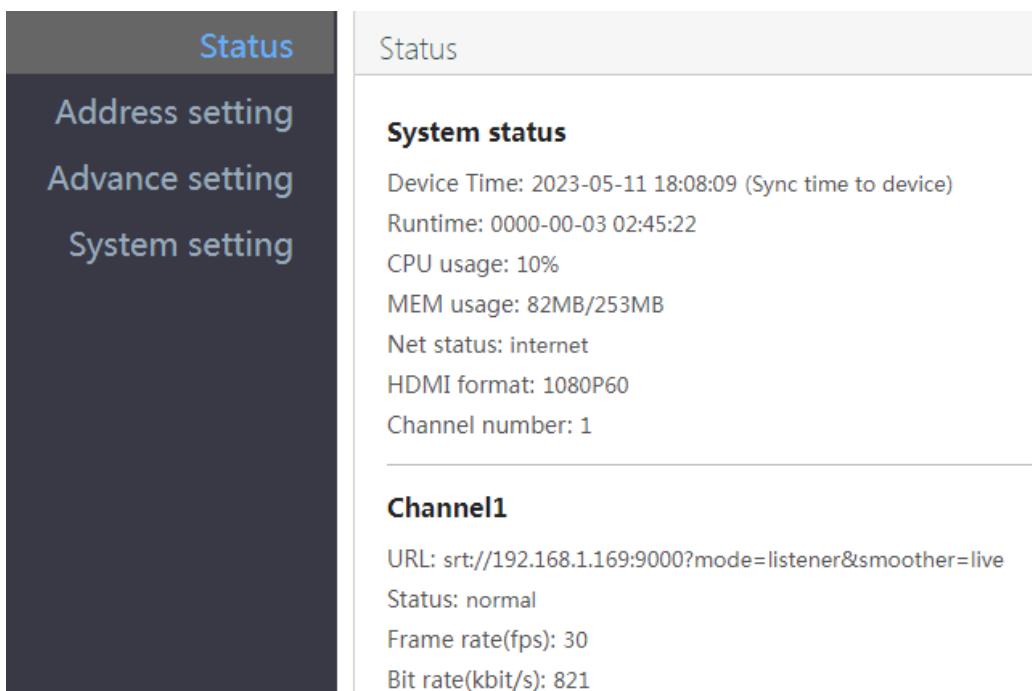


The screenshot shows a web interface for device settings. On the left is a dark sidebar menu with the following items: Status, Address setting, Advance setting, System setting (highlighted in blue), Network setting, Serial to TCP, Passwd setting, System output, Factory setting, Upgrade & Backup, Reset device, Reboot device (with a left-pointing arrow), and Schedule Restart. The main content area has a light gray header with the title 'Reboot device'. Below the header, there is a 'Restart system:' label followed by a dark gray button with the text 'Reboot'.

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.



The screenshot shows a web interface for system status. On the left is a dark sidebar menu with the following items: Status (highlighted in blue), Address setting, Advance setting, and System setting. The main content area has a light gray header with the title 'Status'. Below the header, there is a section titled 'System status' with the following details: Device Time: 2023-05-11 18:08:09 (Sync time to device), Runtime: 0000-00-03 02:45:22, CPU usage: 10%, MEM usage: 82MB/253MB, Net status: internet, HDMI format: 1080P60, and Channel number: 1. Below this section, there is a section titled 'Channel1' with the following details: URL: srt://192.168.1.169:9000?mode=listener&smoother=live, Status: normal, Frame rate(fps): 30, and Bit rate(kbit/s): 821.

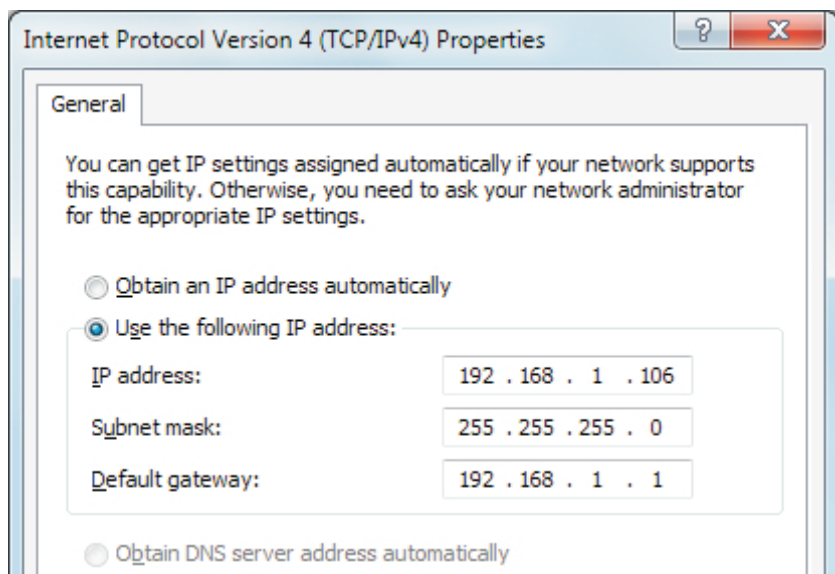
3. FAQ

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.