

# USER MANUAL FOR

HaiweiTech V1-W IP CAMERA



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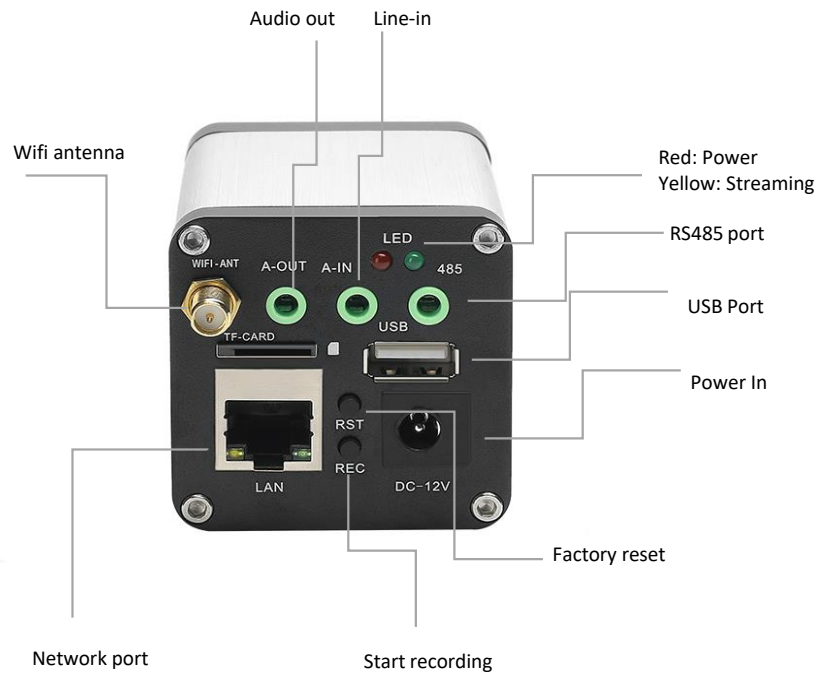
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## Interfaces



4mm



6mm



8mm

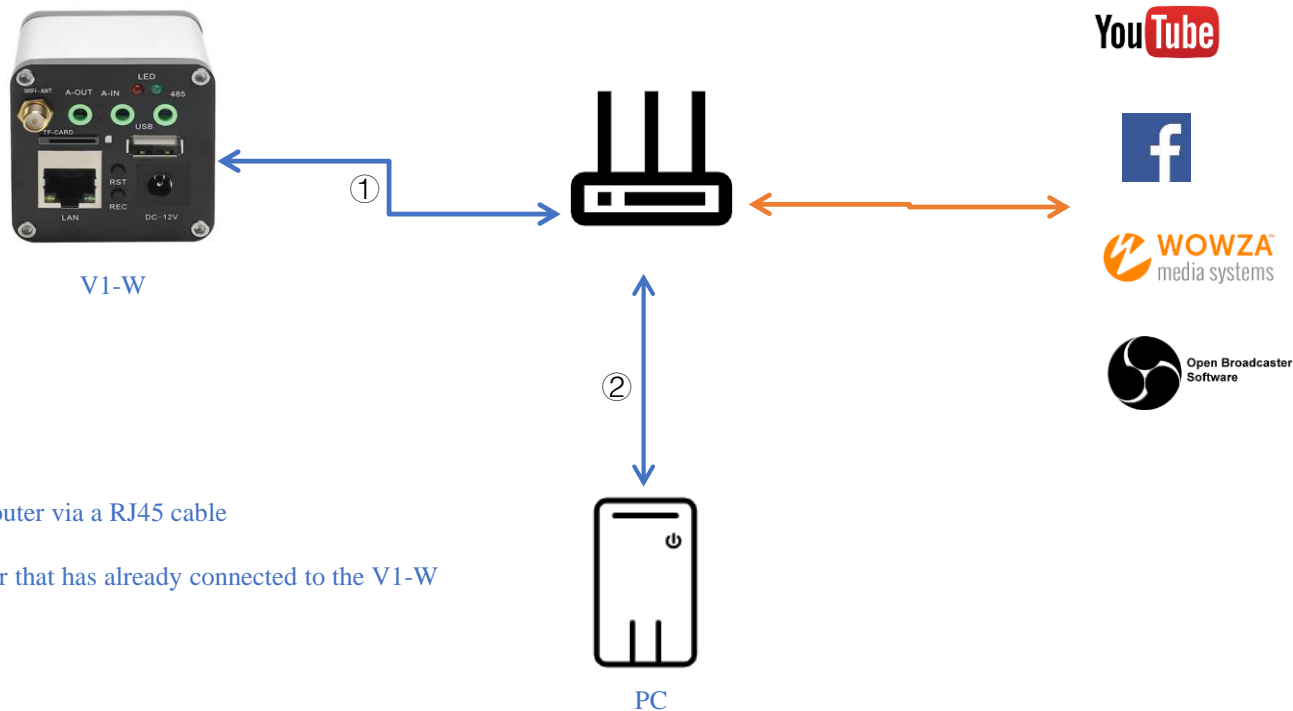


2.8-12mm

\* Dismountable lens



# ① Getting V1-W, Router, and PC connected



## ② Configure the PC Net

```
C:\Users\WeShion>ipconfig

Windows IP Configuration

Ethernet adapter SSIAP 1:

    Media State . . . . . : Media disconnected
    Connection-specific DNS Suffix  . : 
Ethernet adapter Network 1:

    Connection-specific DNS Suffix  . : 
    Link-local IPv6 Address . . . . . : fe80::859f:151f:646a:ab87%
    IPv4 Address. . . . . : 192.168.0.179
```

- 1- Get current IP  
Windows+ R → cmd  
→ Enter: ipconfig  
→ Get the IPv4 Add

Network and Internet > Network and Sharing Center

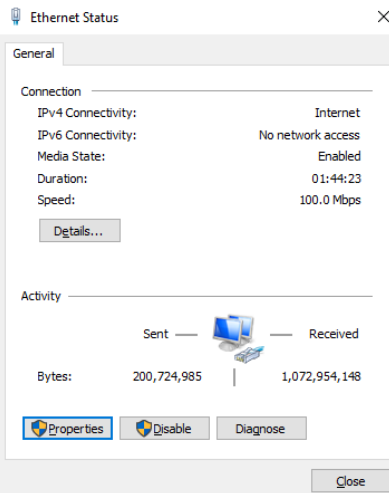
View your basic network information and set up connections

View your active networks

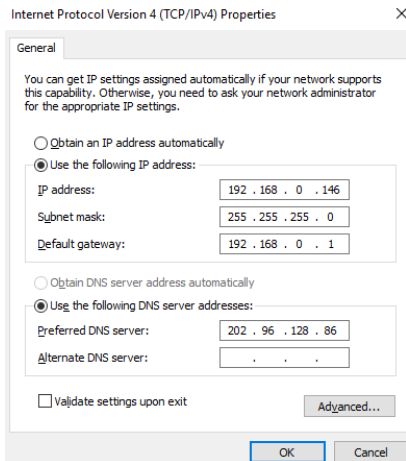
Network  
Public network

Access type: Internet  
Connections: Ethernet

- 2- Enter Ethernet



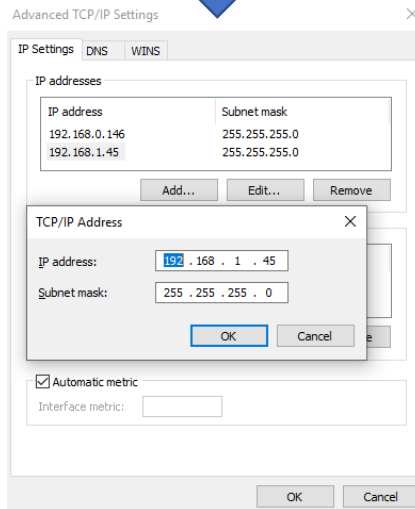
- 3- Enter Properties



- 4- Enter IPV4 and fill the IPv4 address you get from the 1<sup>st</sup> step and its subnet mask and default IP gateway

Fill the correct dns, 8.8.8.8 suggested for global streaming

- 5- Enter Properties



- 6- Adding an available IP address @192.168.1.xxx and save all configurations.

1- Open a Browser and enter  
Default IP address of the IPC

192.168.1.168. if it not accessible, please reset it by pressing the RST for 15s and try again.

- If transmission over LAN required, you may need to configure an unusable IP and gateway for the WIFI connection;
- If transmission over WIFI required, check the subsequent page

#### \* DNS

In general, we recommend 8.8.8.8 for the DNS1, changing a DNS will probably helps if the stream does not start.

#### \* QR code

The QR code was designed for remote control based on the P2P technology. Once the encoder/ IP camera got network adapted, this function will be possible for the remote control or point to point transmission, [here](#) are steps for this operation (the switch displays on the [Additional functions- More- P2P](#))

2- Adapt the network to your own and  
save the current settings by clicking

Apply

(IP address- gateway- DNS need  
to be modified)

3- Reboot the IPC



#### ④ Getting WiFi connection

\* Mount the WiFi antenna before getting start

Network

DHCP:

IP Address:

Netmask:

Gateway:

DNS1:

DNS2:

MAC:

WiFi Mode:

→ 1- Switch to STA mode  
and **Reboot** the device

WiFi Mode:

WiFi DHCP:

WiFi IP:

WiFi Netmask:

WiFi Gateway:

WiFi Encryption:

Nearby AP number: 14

WiFi Essid:

WiFi Password:

Apply

→ 2- Get the Wi-Fi by  
clicking

3- Choose the correct  
Wi-Fi by clicking  
**red labeled area** and  
enter your code

DHCP:

IP Address:

Netmask:

Gateway:

DNS1:

DNS2:

MAC:

WiFi Mode:

WiFi DHCP:

WiFi IP:

WiFi Netmask:

WiFi Gateway:

WiFi Encryption:

Nearby AP number: 14

WiFi Essid:

WiFi Password:

Refresh

Apply

4 -If transmission over WIFI required,  
you may need to configure an unusable  
IP and gateway for the LAN connection.

System Password Version Upgrade

Timing Reboot:

Apply

Reset Reboot

5- Reboot the IPC



# Web GUI

## 1- Status

### FHD Live Streaming Camera

--Welcome--

- Device Status
- Network
- Main Stream
- Sub Stream
- Additional functions
- System

Access Address: `rtsp://192.168.0.189:554/ipc`

Video Resolution: 1920\*1080p

Video FPS: 30

Encoded FPS: 25

Audio Channel: 2

Sampling Rate: 48000

Encoded Audio: 239405056

Encoded Video: 74748

Lost: 2

Main Stream

Sub Stream

Preview

Access Address: `rtsp://192.168.0.189:554/ipc_ext`

Main Stream

Sub Stream

Preview

RTMP-HLS Stream: ☐ [ Enable HLS for HTML5 preview]

RTMP-HLS Mode: ☐

RTMP Address: `rtmp://192.168.0.189:1935/hls/hd-live`

HLS Address: `http://192.168.0.189:8235/hls/hd-live.m3u8`

Apply

The status of the processing and the streaming URL displaying here (1<sup>st</sup> and 2<sup>nd</sup>- RTSP, HTTP, UDP, RTP, HLS here).

The statistics of the encoded information will keep going if it works correctly; besides that, it provides overall view for current encoding information.

HTML5 based preview could be implemented by enabling the HLS function, but ensure it is H.264 based, for it does not support HLS over H.265.

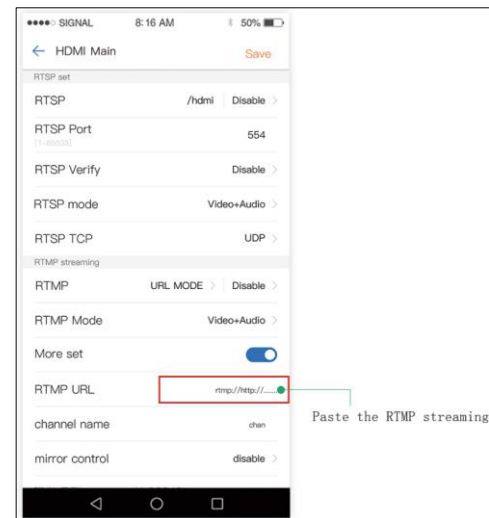
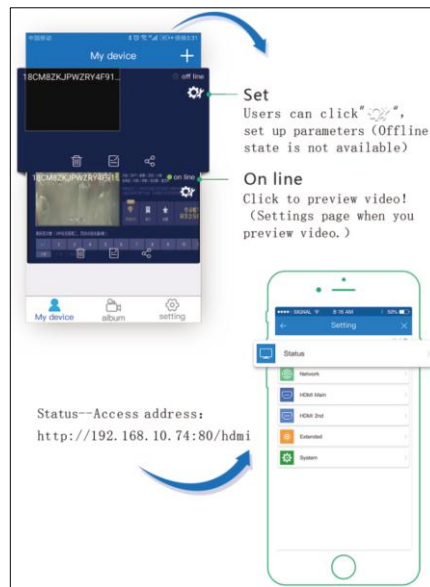
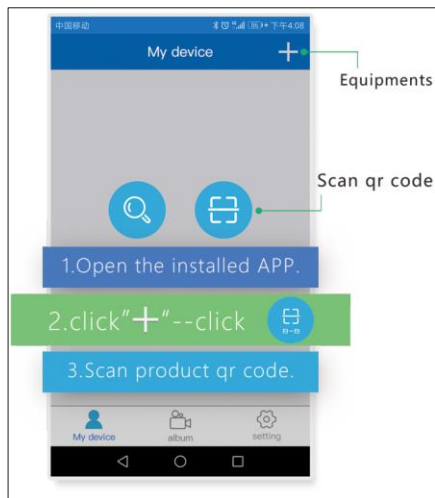




APP—LiveX, control the encoder and record the video at anywhere,  
any network, any device.

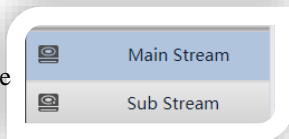
Android/ IOS: download it on its apple/ Google play store  
Or scan the [QR code](#) to get the APP downloaded from our website

Video about LiveX on YouTube:  
<https://www.youtube.com/watch?v=GyAD7EhDvAc=210s>  
Or Search “Haiwei softwares”



### 3- Protocols

Protocols display on the



HTTP, RTMP, HTTP, RTSP, UDP, RTP, SRT can be configured here

Parameters RTMP/s HTTP RTSP Unicast Multicast RTP SRT TS Code

Encoding: H.264  
Channel Name: chan  
Mirror: Enable  
Upside-down: Enable  
Rotate : Disable  
Aspect Ratio: Auto  
Bitrate Control: CBR  
Key Frame Interval: 30 [5-200]  
Encode Resolution: Auto  
Bitrate: 3200 [16-12000]  
Fluctuate Level: Auto  
H.264 Profile: Main profile  
FPS: 25 [5-30]  
Package: FFmpeg  
Buffer Mode: 188x7  
Apply

#### HTTP/ RTSP/ Unicast/ Multicast

HTTP: Enable  
Path: /ipc Start with "/"  
Port: 80 [1-65535]  
Apply

Enable relevant protocol then Apply it

#### RTP

RTP : Enable  
Server IP: 192.168.1.123  
Port: 6666 [1-65535]  
Apply

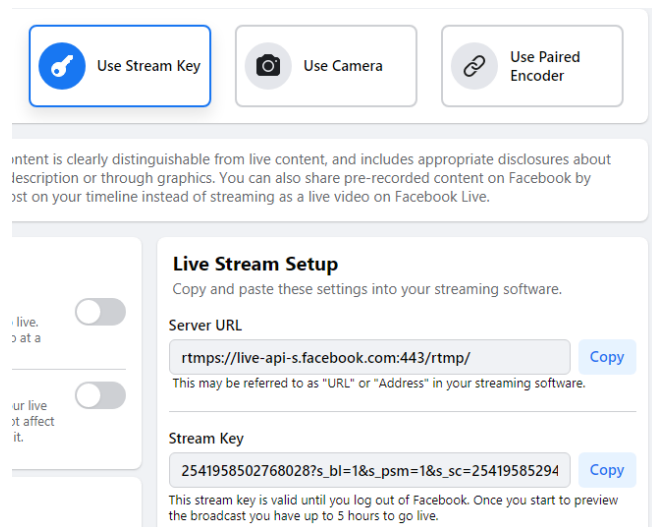
Fill the server/ destination IP and port then Apply it



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RTMP/S

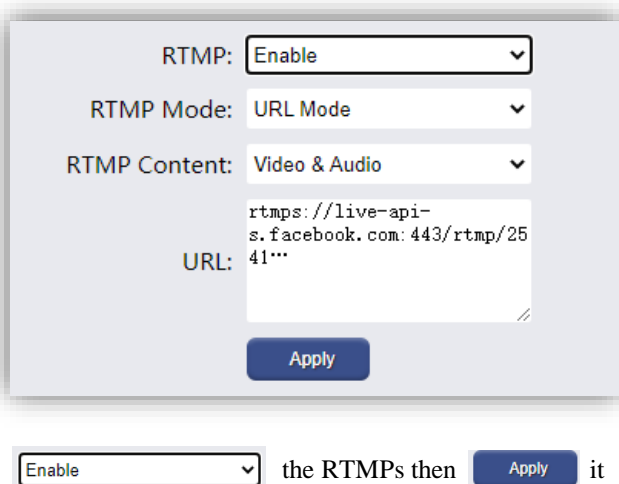
Get the stream URL and stream key on the platform (use Facebook as instance)



The image shows the Facebook Live Stream Setup interface. At the top, there are three buttons: "Use Stream Key" (highlighted with a blue border), "Use Camera", and "Use Paired Encoder". Below these buttons is a paragraph of text: "Content is clearly distinguishable from live content, and includes appropriate disclosures about description or through graphics. You can also share pre-recorded content on Facebook by posting on your timeline instead of streaming as a live video on Facebook Live." Below this text is a "Live Stream Setup" section. It contains a "Server URL" field with the value "rtmps://live-api-s.facebook.com:443/rtmp/" and a "Copy" button. Below the URL field is a note: "This may be referred to as 'URL' or 'Address' in your streaming software." Below the URL field is a "Stream Key" field with the value "2541958502768028?s\_bl=1&s\_psm=1&s\_sc=25419585294" and a "Copy" button. Below the stream key field is a note: "This stream key is valid until you log out of Facebook. Once you start to preview the broadcast you have up to 5 hours to go live." On the left side of the "Live Stream Setup" section, there are two toggle switches. The first toggle is labeled "live" and "at a" and is currently turned on. The second toggle is labeled "live" and "at affect it" and is currently turned off.



Fill [rtmps://live-api-s.facebook.com:443/rtmp/2541...](https://live-api-s.facebook.com:443/rtmp/2541958502768028?s_bl=1&s_psm=1&s_sc=25419585294) on the URL option



The image shows a configuration window for RTMP. It has three dropdown menus: "RTMP:" set to "Enable", "RTMP Mode:" set to "URL Mode", and "RTMP Content:" set to "Video & Audio". Below these is a text area for the "URL:" containing the value "rtmps://live-api-s.facebook.com:443/rtmp/2541958502768028?s\_bl=1&s\_psm=1&s\_sc=25419585294". At the bottom right is an "Apply" button. Below this window, there is another "RTMP:" dropdown menu set to "Enable", followed by the text "the RTMPs then", and another "Apply" button followed by the text "it".



Network configuration required before streaming to platform



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SRT

## Listener mode

SRT:

SRT Mode:

Encryption:

Listener Port:

Latency:  [Unit:ms]

## Caller mode

## Encoder

SRT:

SRT Mode:

Encryption:

Caller Server:

Caller Port:

Latency:  [Unit:ms]

## Decoder

**Decode**

Open protocol video P2P video **SRT Settings**

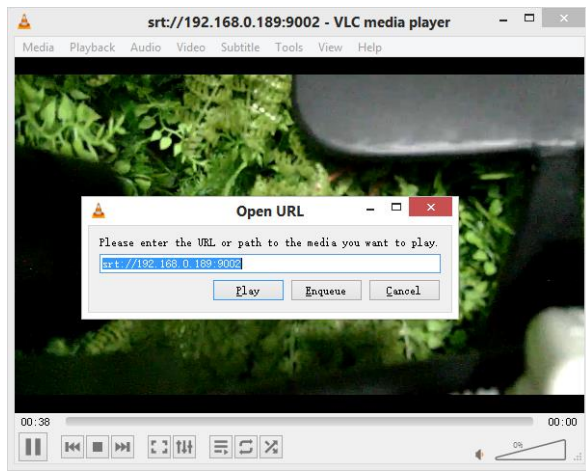
Display mode :

SRT 1 :  Listener Mode:

Server IP :

SRT latency :

SRT password :



## Caller server

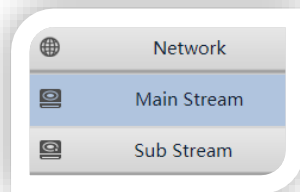
Enter the [Server/ destination IP](#) and its [Port](#) then  it

SRT stream URL  
srt://current IP:port



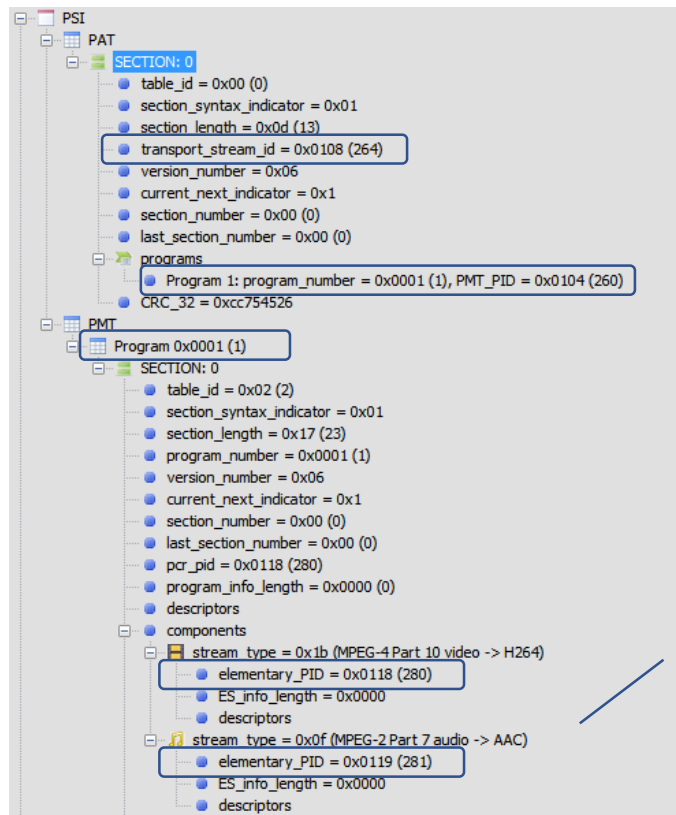
6

## TS Code



## Current TS info

PMT ID :	260	[1-65535]
Transport ID :	264	[256-3840]
Stream ID :	280	[256-3840]
Program ID:	1	
SDT name :	Service01	
<button>Apply</button>		

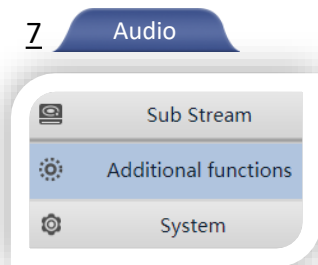


Video ID= Stream ID  
Audio ID= video ID+1



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## Audio



Audio Bitrate:	128000	▼
Audio Channel:	L+R	▼
Audio Encoding:	AAC	▼
AAC Format:	LC	▼
Resample:	Disable	▼
RTSP Audio:	AAC	▼
Audio Gain:	Disable	▼
<button>Apply</button>		

Set up the audio encoding information here

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## OSD

Upload LOGO: 选择文件 未选择任何文件 Upload Main stream OSD LOGO file must be named (logo.br

LOGO:	Disable	▼
LOGO X:	100	[0-1920]
LOGO Y:	170	[0-1080]
Text X:	100	[0-1920]
Text Y:	100	[0-1080]
Text Size:	32	[8-72]
Transparency:	100	[0-128]
Text Color:	0xFFFFFFFF	[0-0xFFFFFFFF] example: R: 0xFFFF0000 G: 0xFF00FF00 B: 0xFF0000FF
Text Content:		Up to 255 characters
<button>Apply</button>		

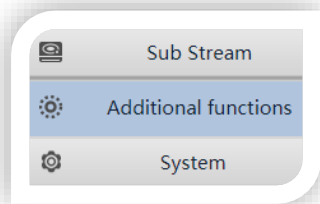
Set up OSD (On Screen Display) here, the logo should be named as **logo.bmp** ( at 24bit), the size of the file should not exceed 100kb.

The logo for 2<sup>nd</sup> stream should be named as **logo\_ext.bmp**



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## Color



Brightness: 50 [0-100] Default Value:50

Contrast: 50 [0-100] Default Value:50

Hue: 50 [0-100] Default Value:50

Saturation: 50 [0-100] Default Value:50

Apply

Those features would be of help under some different environment, different figures should be considered if the video is dim or over bright and other video performance related issues.

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## ONVIF

ONVIF : Enable

Authorization: Disable

User:

Password:

Name:

Apply

11

## Time Code

Time Code : Auto

X : 50 [0-1920]

Y : 50 [0-1080]

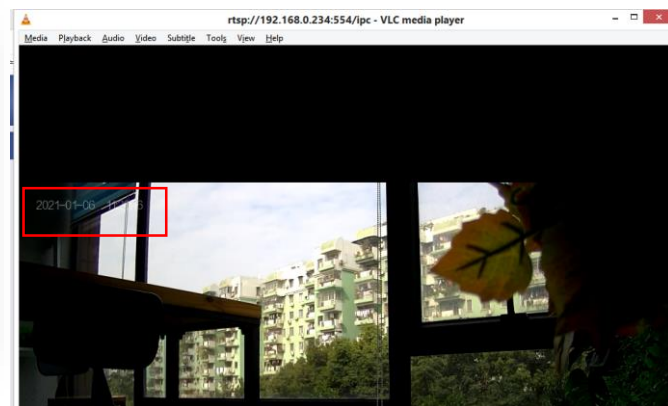
Font Size : 34 [8-72]

Color : 0xFFFFFFFF [0-0xFFFFFFFF]

Time Zone : GMT+08:00

Server : time.windows.com

Apply



The server could be [time.windows.com](http://time.windows.com), or national NTP server



12

## Recording

SD Card U-Disk

Recording : OFF ▼

SD Card System : exFAT ▼ [Need to reboot if anything modified]

Video Length : 15 Minutes ▼

Available Space : 0M [Freshing web to get data updated]

Apply

Download [To download files]

Format [To delete all stored data]

Recording : OFF ▼

Video Length : 15 Minutes ▼

Available Space : M [Freshing WEB to get data updated]

Apply

13

## More

P2P : ON ▼ Apply

LDC Correction : 400 [0-511] Reboot required

AE Response Rate : 64 [0-100]

AE Tolerance : 64 [0-100]

Exposure : Auto ▼

Fog Penetrating : Manual ▼

Level : 20 [0-100]

Denoise : Manual ▼

Level : 45 [0-100]

Defect Pixel Correction : Disable ▼

Apply

- P2P

This function is for remote control or P2P transmission, explained its steps to get connected in [THIS](#) page

- LDC Correction

This function is designed for adapting different type of lenses if the video distorted

Here are some suggestion for different lenses

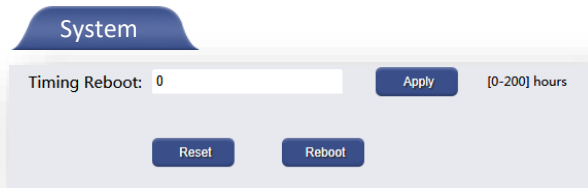
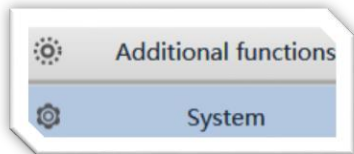
4mm- 400, 6mm- 200. 8mm- 0





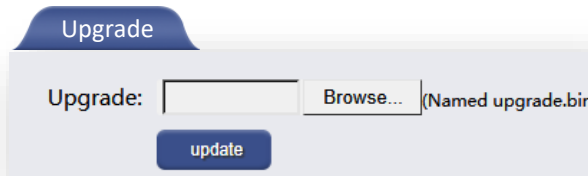
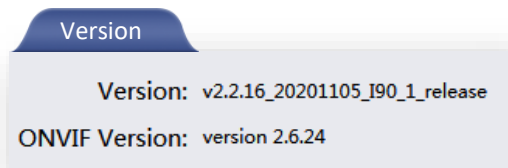
14

System



\* Timing reboot

If the streaming is TCP connection based (except UDP and RTSP over UDP), setting up 168 hours is necessary so as to avoid network cache and latency accumulation.



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