

USER MANUAL FOR

HaiweiTech V1-W IP CAMERA



Contents

I Interfaces

II Getting Start

III Web GUI

1-Status

2- Network

3- Protocols

4- RTMP/ RTMPS

5- SRT

6- TS code

7- Audio

8- OSD

9- Image optimize

10- ONVIF

11- Time code

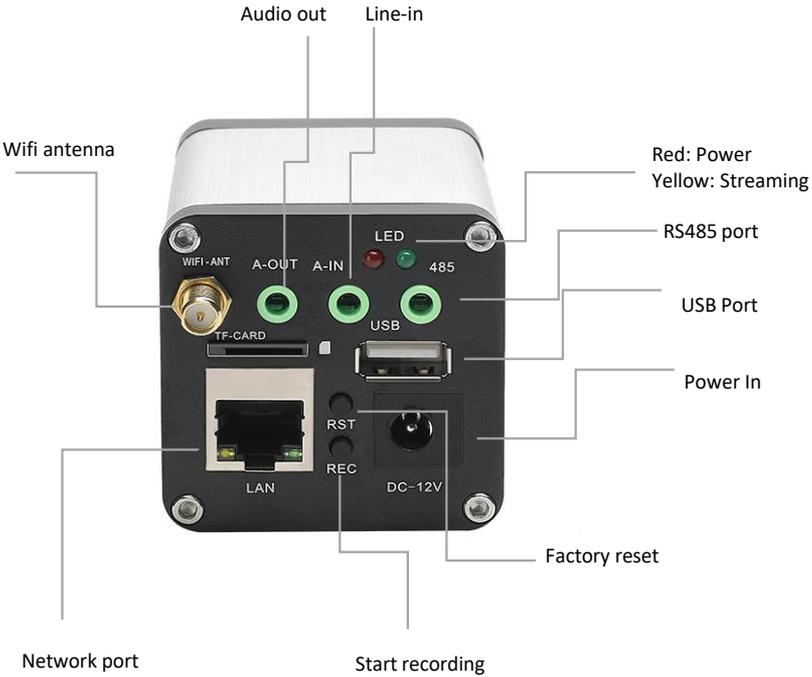
12- Recording

13- P2P- Lens

14- System

IV Contact us

Interfaces



4mm



6mm



8mm

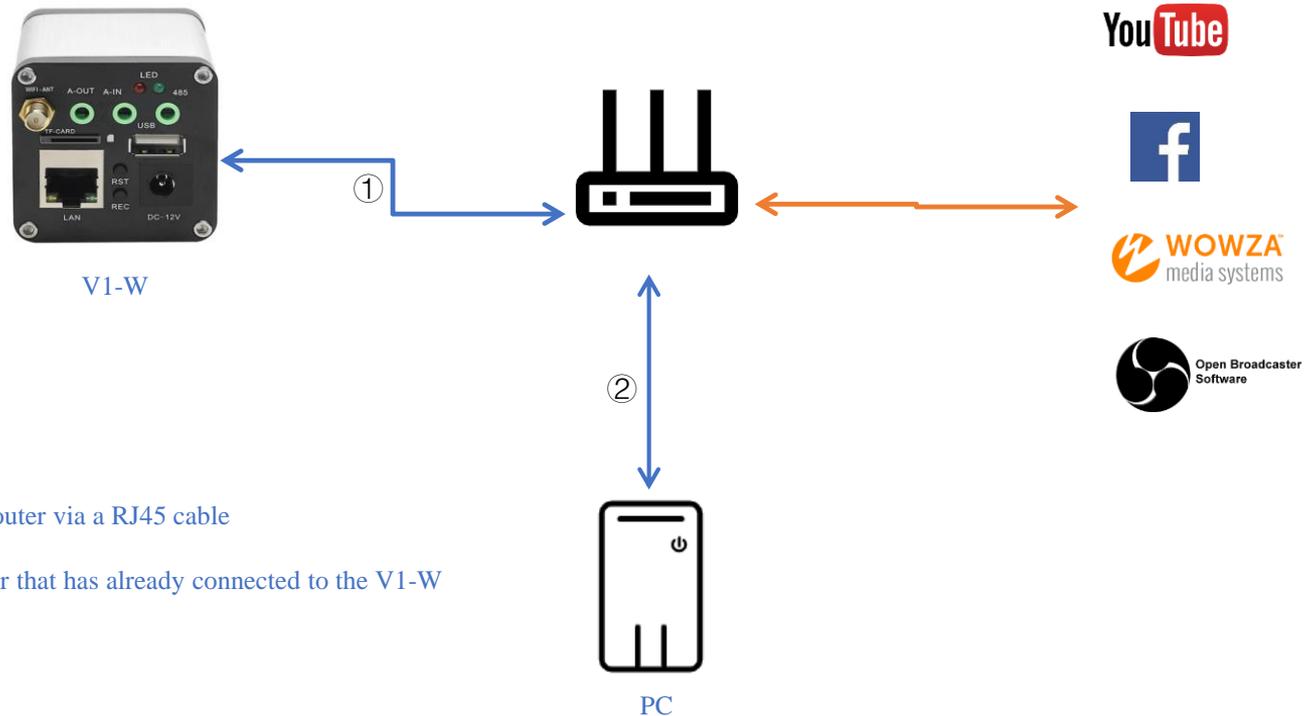


2.8-12mm

* Dismountable lens



① Getting V1-W, Router, and PC connected



① Connect the IP camera to router via a RJ45 cable

② Connect the PC to the router that has already connected to the V1-W



② Configure the PC Net

```
C:\Users\MeShion>ipconfig

Windows IP Configuration

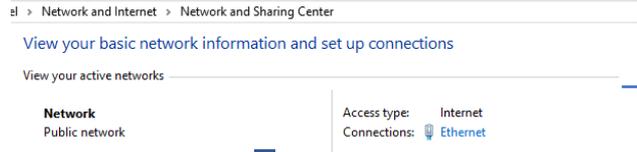
Ethernet adapter SSIAP 1:

    Media State . . . . . : Media disconnected
    Connection-specific DNS Suffix . :

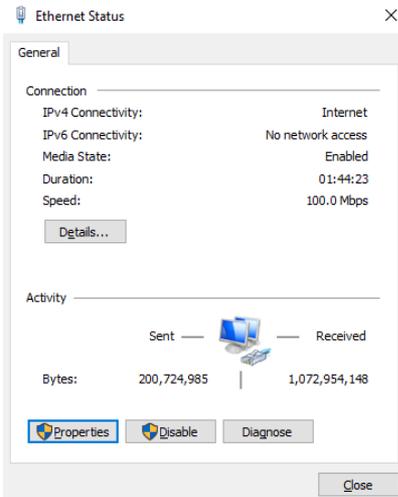
Ethernet adapter Network 1:

    Connection-specific DNS Suffix . :
    Link-local IPv6 Address . . . . . : fe80:3859f:151f:646a:ab87%
    IPv4 Address. . . . . : 192.168.0.179
```

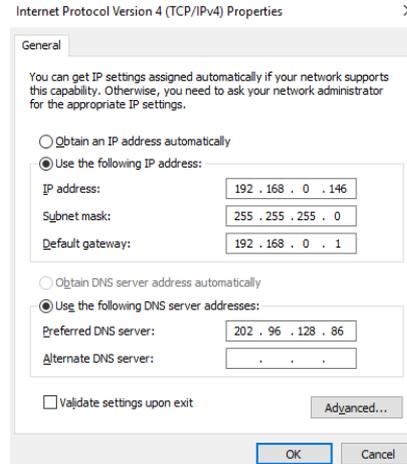
→ 1- Get current IP
Windows+ R → cmd
→ Enter: ipconfig
→ Get the IPv4 Add



→ 2- Enter Ethernet



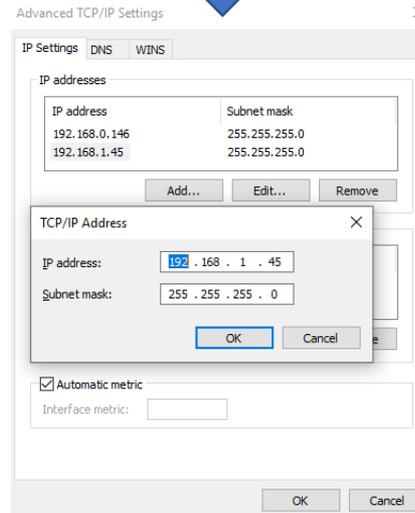
→ 3- Enter Properties



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

Fill the correct dns, 8.8.8.8 suggested for global streaming

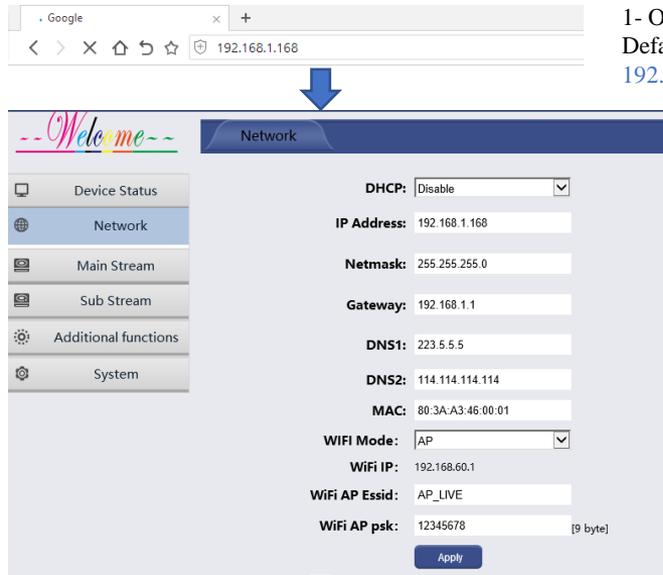
→ 5- Enter Properties



→ 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.



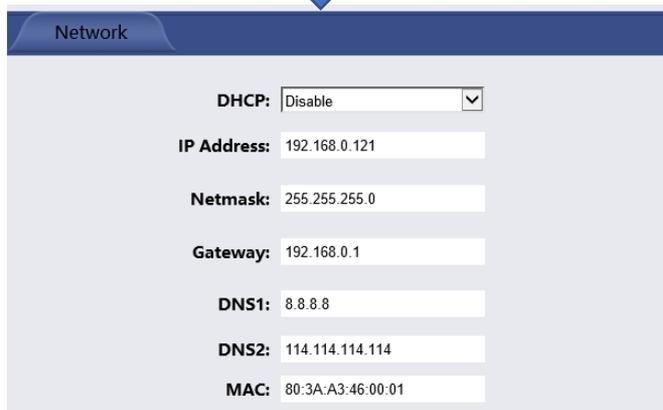
- If transmission over LAN required, you may need to configure an unusable IP and gateway for the WIFI connection;
- If transmission over WIFI required, check the subsequent page

* 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



(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 **Refresh**

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:

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

The screenshot displays the 'FHD Live Streaming Camera' web interface. On the left, a navigation menu includes 'Device Status', 'Network', 'Main Stream', 'Sub Stream', 'Additional functions', and 'System'. The 'Main Stream' section is active, showing the following status information:

- 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

At the bottom, the 'Access Address' is listed as `rtsp://192.168.0.189:554/ipc_ext`. On the right, the 'Preview' tab is selected, showing a live video feed of a chair and plants. Below the video, there are configuration options for RTMP-HLS Stream (set to 'Enable'), RTMP-HLS Mode (set to 'Video & Audio'), RTMP Address (`rtmp://192.168.0.189:1935/hls/hd-live`), and HLS Address (`http://192.168.0.189:8235/hls/hd-live.m3u8`). An 'Apply' button is located at the bottom of these settings.

The status of the processing and the streaming URL displaying here (1st and 2nd- 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.



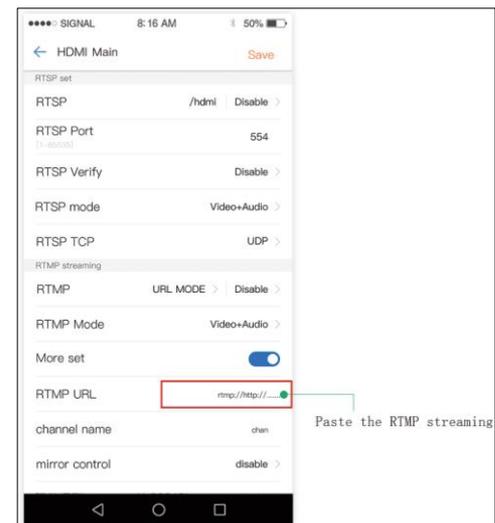
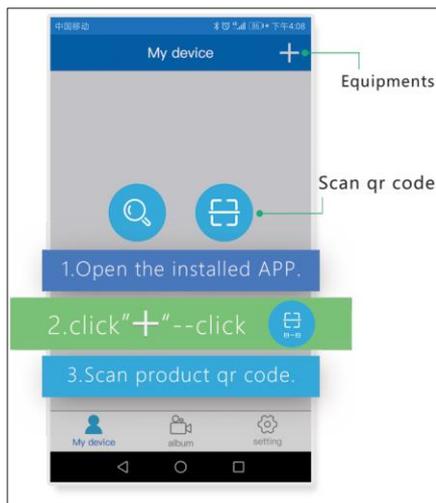
APP—LiveX, control the encoder and record the video at anywhere, any network, any device.

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:

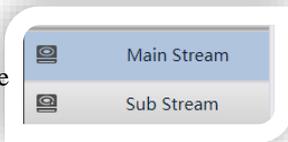
<https://www.youtube.com/watch?v=GyAD7EhDvAc=210s>

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

HTTP/ RTSP/ Unicast/ Multicast

HTTP: Enable

Path: Start with "/"

Port: [1-65535]

Enable relevant protocol then it

RTP

RTP : Enable

Server IP:

Port: [1-65535]

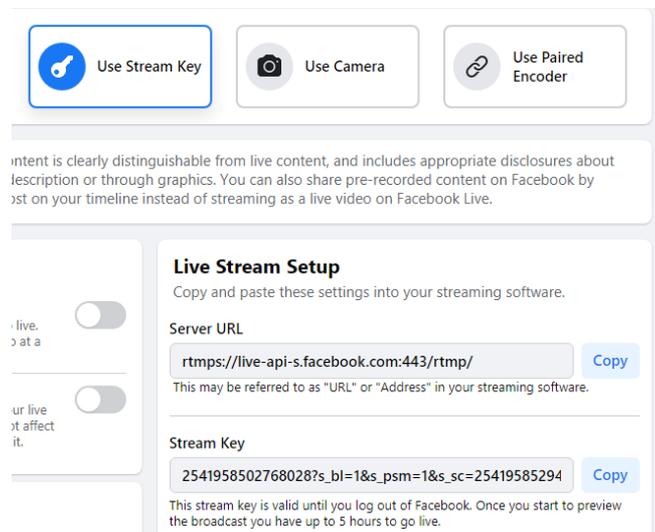
Fill the server/ destination IP and port then it



4

RTMP/S

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

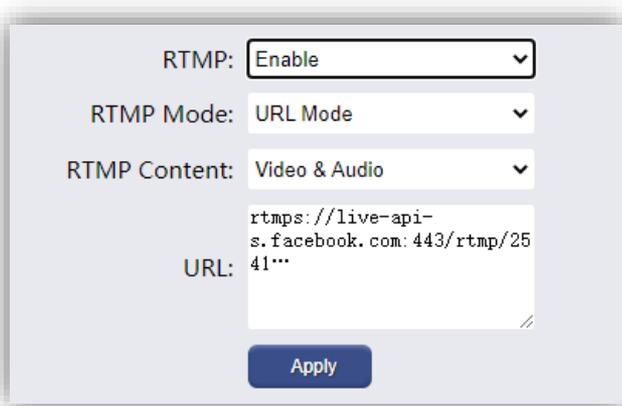


The screenshot shows the Facebook Live Stream Setup interface. At the top, there are three options: "Use Stream Key" (highlighted with a blue border), "Use Camera", and "Use Paired Encoder". Below this, there is a paragraph of text: "Content is clearly distinguishable from live content, and includes 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." The main section is titled "Live Stream Setup" and contains the following information:

- Server URL:** `rtmps://live-api-s.facebook.com:443/rtmp/` (with a "Copy" button)
- Stream Key:** `2541958502768028?s_bl=1&s_psm=1&s_sc=25419585294` (with a "Copy" button)

Below the Stream Key, there 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, there are two toggle switches: "Live at a" (turned on) and "Live at affect it" (turned off).

Fill `rtmps://live-api-s.facebook.com:443/rtmp/2541...` on the URL option



The screenshot shows a configuration window for RTMP settings. The settings are as follows:

- RTMP:** Enable (dropdown menu)
- RTMP Mode:** URL Mode (dropdown menu)
- RTMP Content:** Video & Audio (dropdown menu)
- URL:** `rtmps://live-api-s.facebook.com:443/rtmp/2541958502768028?s_bl=1&s_psm=1&s_sc=25419585294` (text input field)

An "Apply" button is located at the bottom of the configuration window.

Enable the RTMPs then Apply it

 Network configuration required before streaming to platform



5

SRT

Listener mode

SRT: Enable

SRT Mode: Listener

Encryption: Disable

Listener Port:

Latency: [Unit:ms]

Caller mode

Encoder

SRT: Enable

SRT Mode: Caller

Encryption: Disable

Caller Server:

Caller Port:

Latency: [Unit:ms]

Decoder

Decode

Open protocol video P2P video **SRT Settings**

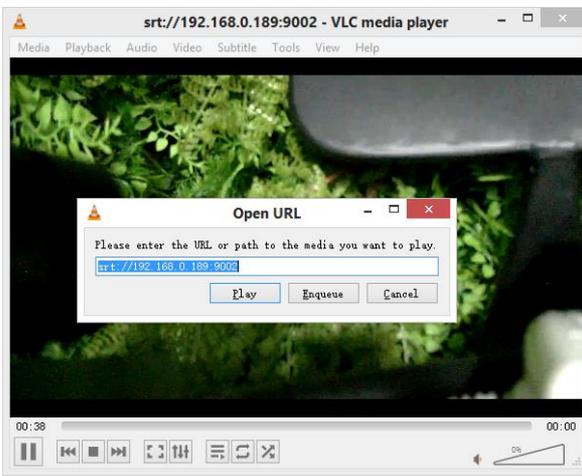
Display mode :

SRT 1 : ON Listener Mode: ON

Server IP :

SRT latency :

SRT password :



Caller server

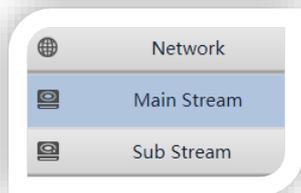
Enter the [Server/ destination IP](#) and its [Port](#) then it

SRT stream URL
srt://current IP:port



6

TS Code



Current TS info

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

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



7

Audio

Audio Bitrate: 128000

Audio Channel: L+R

Audio Encoding: AAC

AAC Format: LC

Resample: Disable

RTSP Audio: AAC

Audio Gain: Disable

Apply

Set up the audio encoding information here

8

OSD

Upload LOGO: 未选择任何文件 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

Apply

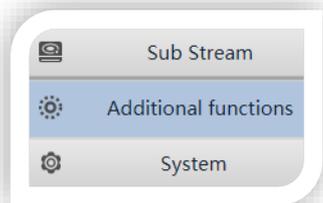
Set up OSD (On Screen Display) here, the logo should be named as `logo.bmp` (at 24bit), the size of the file should not exceed 100kb.

The logo for 2nd stream should be named as `logo_ext.bmp`



9

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.

10

ONVIF

ONVIF : Enable ▾
 Authorization: Disable ▾
 User:
 Password:
 Name:

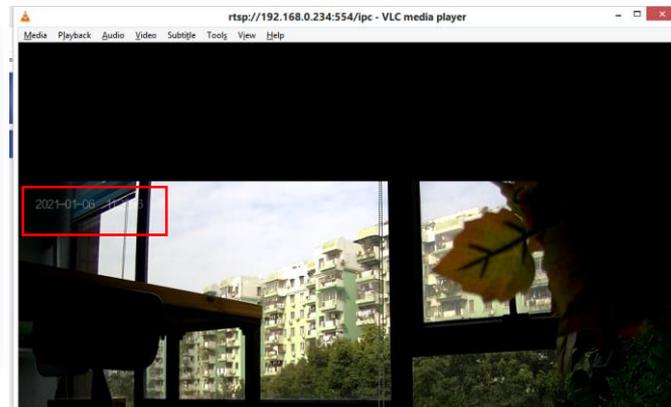
Apply

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, 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]

[To download files]

[To delete all stored data]

Recording : OFF

Video Length : 15 Minutes

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

13 More

P2P : ON

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]

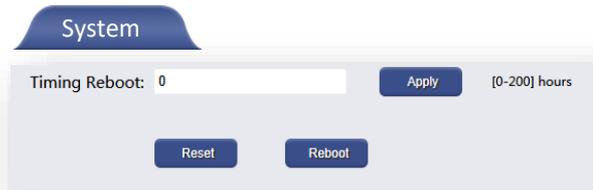
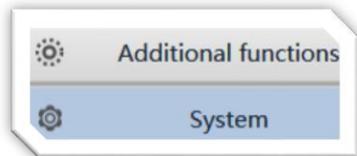
Defect Pixel Correction : Disable

- 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.

Version

Version: v2.2.16_20201105_I90_1_release
ONVIF Version: version 2.6.24

Upgrade



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