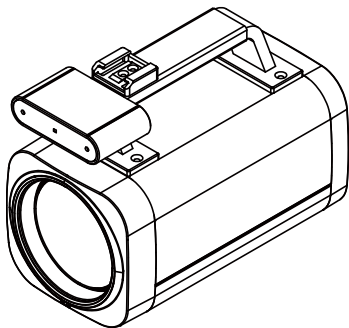


HD Live Camera



User Manual

English (V1.0)

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Warning

This is class A production. Electromagnetic radiation at specific frequencies may affect the image quality of TV in home environment.

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1 Note

- **Electric Safety**

Installation and operation must accord with electric safety standard.

- **Use Caution to Transport**

Avoid stress, vibration or soakage in transport, storage and installation.

- **Polarity of Power Supply**

The power supply of this product is DC 12V, Polarity of the power supply plug drawing shows as below.



- **Installation Precautions**

Do not use in corrosive liquid, gas or solid environment to avoid any cover (plastic material) damage. Make sure there is no obstacle within rotation range.

Never power on before installation is completed.

- **Do not Dismantle the Camera**

We are not responsible for any unauthorized modification or dismantling.



Warning

Specific frequencies of electromagnetic field may affect the image of the camera!

2 Supplied Accessories

When you unpack, check that all the supplied accessories are included:

Name	Quantity
Camera	1
Remote Control	1
Power Adapter	1
Power Cable	1
USB Cable	1
User Manual	1

3 About Product

3.1 Features

- **Full-featured USB Interface**

Full-featured USB Type-C interface, compatible with USB 3.0 and USB 2.0, supports audio, supports encoding output, and supports UVC 1.1~1.5 protocols.

- **Precise Focus**

Equipped with TOF close-range assisted focusing, combined with advanced focusing algorithms, it can quickly and stably focus regardless of distance.

- **1080P HD Image**

It adopts a new generation of Panasonic 1/2.8-inch, 2.07 million effective pixel high-quality HD CMOS sensor, which can achieve high-quality images with a maximum resolution of 1920x1080.

● Ultra High Frame Rate

The output frame rate can reach 60fps under 1080P.

● Easy to Use

Support horizontal and vertical screen switching, suitable for horizontal and vertical screen display scenes; USB plug-and-play, simple and fast; with cold shoe base, it can externally expand the fill light or microphone to enrich the use scene.

● HDMI 1.4b

Support HDMI 1.4b, can directly output uncompressed 1080P60 original video.

● 72.5° Wide Lens + 12x Optical Zoom

It adopts 72.5° high quality ultra wide-angle lens, optical zoom up to 12x, and supports 16x digital zoom.

● Support PoE

Support PoE power supply, control, power supply, video and audio only need one network cable to complete.

● Network Encoding Output

Support dual network video stream output (first stream, second stream).

● Multiple Interfaces

Support HDMI, USB 3.0 and network interface, can output 1080P60 video at the same time.

● Three Power Supply Methods

Support USB 5V, DC 12V power adapter and PoE power supply.



3.2 Product Specification

Name	HD Live Camera
Camera	
Video System	1080P@60fps, 1080P@50fps, 1080P@30fps, 720P@60fps, 720P@50fps
Sensor	1/2.8", CMOS, Effective Pixel: 2.07M
Scanning Mode	Progressive
Lens	12x, f=3.5mm ~ 42.3mm, F1.8 ~ F2.8
Digital Zoom	16x
Minimal Illumination	0.5 Lux @ (F1.8, AGC ON)
Shutter	1/30s ~ 1/190s
White Balance	Auto, Indoor, Outdoor, One Push, Manual, VAR
Digital Noise Reduction	2D & 3D Digital Noise Reduction
Video S/N	≥55dB
Horizontal Angle of View	72.5° ~ 6.9°
Vertical Angle of View	44.8° ~ 3.9°

H & V Flip	Support
Image Freeze	Support
Number of Preset	255
Network Features	
Operate System	Windows 7/8/10, Mac OS X, Linux, Android
Color System / Compression	YUY2 / H.264 / MJPEG
Video Format	<ul style="list-style-type: none"> ● YUY2 (ISOC): Max. 1080P@60fps ● H.264 AVC: Max. 1080P@60fps ● H.264 SVC: Max. 1080P@60fps ● MJPEG: Max. 1080P@60fps
USB Audio	Support
USB Video Protocol	UVC 1.1 ~ 1.5
UVC PTZ	Support
Network Features	
Video Compression	H.264/H.265/MJPEG
Video Stream	First Stream, Second Stream
First Stream Resolution	1920x1080, 1280x720
Second Stream Resolution	1280x720, 640x360

Video Bit Rate	32Kbps ~ 20480Kbps
Bit Rate Control	CBR, VBR
Frame Rate	50Hz: 1fps ~ 25fps, 60Hz: 1fps ~ 30fps
Audio Compression	AAC
Audio Bit Rate	96Kbps, 128Kbps, 256Kbps
Support protocols	TCP/IP, HTTP, RTSP, RTMP, ONVIF, DHCP, Multicast, etc.

Interface/Button

USB Interface	1 x USB 3.0: Type C, Device Mode
	1 x USB 2.0: Type A, Host Mode
HD Output	1 x HDMI 1.4b
Audio Interface	1 x MIC IN: 3.5mm Audio Interface
Network Interface	1 x RJ45: 10M/100M Adaptive Ethernet Port, support PoE
Power Jack	JEITA type (DC IN 12V)
H & V Screen Button	 : Vertical Screen  : Horizontal Screen

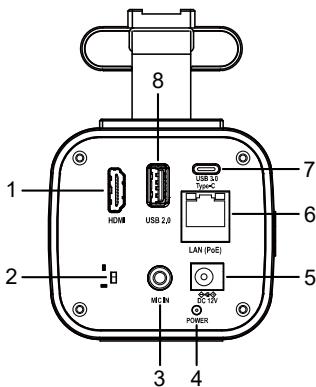
Physical Parameter

Input Voltage	DC 12V / USB 5V / PoE(802.3af)
Current Consumption	12V 1.0A (Max.) / 5V 1.5A (Max.)

Operating Temperature	-10°C ~ 40°C
Storage Temperature	-40°C ~ 60°C
Power Consumption	6W
Dimensions	147 x 113 x 77 (mm)
Weight	0.7Kg

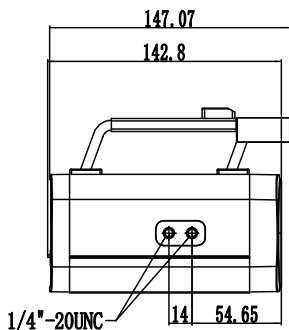
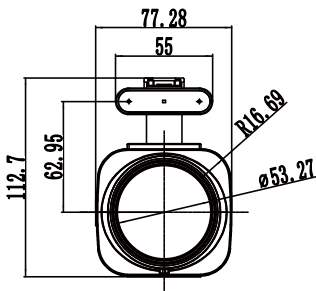
Item	Name
6	LAN (PoE) Interface
7	USB 3.0 Interface
8	USB 2.0 Interface

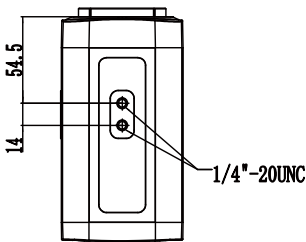
3.3 Interface and Button



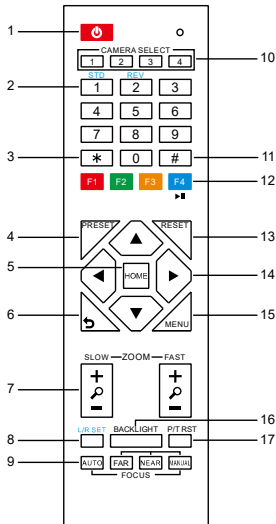
Item	Name
1	HDMI Interface
2	H & V Screen Button
3	MIC IN Interface
4	Power Indicator
5	DC 12V Power Interface

3.4 Dimension





3.5 Remote Control



Key Description

1. Standby Key

Press this button to enter standby mode.
Press it again to enter normal mode.

Note: Power consumption in standby mode is approximately half of the normal mode.

2. Number Key

To set preset or call preset.

3. *Key

Used with other buttons.

4. Preset Key

Set preset: Store a preset position.

[SET PRESET] + Numeric button (0-9):

Setting a corresponding numeric key preset position.

5. HOME Key

Confirm menu, enter submenu or lens will back to the middle position after pressed it.

6. Return Key

Return back the last level menu.

7. Zoom Key

- Slow Zoom: Zoom In [+] or Zoom Out [-] slowly
- Fast Zoom: Zoom In [+] or Zoom Out [-] fast

8. Left/Right Setting Key

Press with 1 button and 2 button setting the direction of the Pan-Tilt.

- Simultaneously press L/R Set +1 [STD]: set the Pan-Tilt turn the same direction as the L/R Set.
- Simultaneously press L/R Set +2 [REV]: set the Pan-Tilt turn the opposite direction as the L/R Set.

9. Focus Key

Used for focus adjustment.

Press [AUTO] adjust the focuses on the center of the object automatically.

Press [MANUAL] adjust the focus on the center of the object manual.

MANUAL button, and adjust it with [Far] (Focus on far object) and [NEAR] (Focus on near object).

10. Selection Key

Press the button corresponding to camera you want to operate with the remote control.

11. # Key

Used with other buttons.

12. IR Remote Control Key

[*]+[#]+[F1]: Address 1

[*]+[#]+[F2]: Address 2

[*]+[#]+[F3]: Address 3

[*]+[#]+[F4]: Address 4

13. Reset Key

Clear preset: Erase a preset position.

[CLEAR PRESET] + Numeric button (0-9)

14. Direction Control Key

After zoom, the lens moves in the direction indicated by the arrow. Press [HOME] button to face the camera back to front.

15. Menu Key

MENU: enter or exit OSD MENU.

16. BLC (Backlight Compensation) Key

BLC ON/OFF: Press this button to enable the backlight compensation. Press it again to disable the backlight compensation.

NOTE:

- Effective only in auto exposure mode.
- If a light behind the subject, the subject will become dark. In this case, press the backlight ON/OFF button. To cancel this function, press backlight ON/OFF button.

17. PTZ Reset Key

It only applicable to the PTZ cameras.

4 Menu Settings

4.1 MENU

Press [MENU] button to display the main menu on the normal screen, using arrow button to move the cursor to the item to be set. Press the [HOME] button to enter the corresponding sub-menu.

MENU	
▶	Exposure
	Color
	Image
	Focus
	Noise Reduction
	Setting
	Information
	Restore Default
	Exit

4.2 EXPOSURE

Move the main menu cursor to [Exposure], and press [HOME] key enter the exposure page, as shown in the following figure.

EXPOSURE		
▶	Mode	Full Auto
	ExpCompMode	Off
	Gain Limit	1
	Meter	Average
	Backlight	Off
	DRC Strength	3
	Anti Flicker	50Hz
	Return	

Mode: Full Auto, Manual, SAE, AAE, Bright.
ExpCompMode: On, Off (Effective only in Full Auto mode).

ExpComp: -7 ~ 7.

Backlight: On, Off (Effective only in Full Auto mode).

Bright: 0 ~ 17 (Effective only in Bright mode).

Gain Limit: 0 ~ 15 (Effective only in Full Auto, SAE, AAE, Bright mode).

Anti-Flicker: Off, 50Hz, 60Hz (Effective only in Full Auto, AAE, Bright mode).

Iris: F1.8, F2.0, F2.4, F2.8, F3.4, F4.0, F4.8, F5.6, F6.8, F8.0, F9.6, F11.0, Close (Effective only in Manual, AAE mode).

Meter: Average, Center, Bottom, Top.

Shutter: 1/30, 1/40, 1/50, 1/60, 1/70, 1/80, 1/90, 1/100, 1/110, 1/120, 1/130, 1/140, 1/150, 1/160, 1/170, 1/180, 1/190 (Effective only in Manual, SAE mode).

Gain: 0 ~ 7 (Effective only in Manual mode).

DRC Strength: 0 ~ 8.

4.3 COLOR

Move the main menu cursor to [Color], and press [HOME] key enter the color page, as shown in the following figure.

COLOR		
▶	WB Mode	Auto
	AWB Sens	High
	RG Tuning	0
	BG Tuning	1
	Saturation	100%
	Hue	7
	Return	

WB-Mode: Auto, Indoor, Outdoor, One Push, Manual, VAR.

AWB Sens: Low, Middle, High.

R Gain: 0 ~ 255 (Effective only in Manual mode).

B Gain: 0 ~ 255 (Effective only in Manual mode).

Color Temp: 2500K ~ 8000K (Effective only in VAR mode).

RG Tuning: -10 ~ +10 (Effective only in Auto, One Push, VAR mode).

BG Tuning: -10 ~ +10 (Effective only in Auto, One Push, VAR mode).

Saturation: 60% ~ 200%.

Hue: 0 ~ 14.

4.4 IMAGE

Move the main menu cursor to [Image], and press [HOME] key enter the image page, as shown in the following figure.

IMAGE		
▶	Luminance	7
	Contrast	7
	Sharpness	5
	B&W-Mode	Off
	Flip-H	Off
	Flip-V	Off
	Gamma	EXT
	Image Style	Default
	Return	

Luminance: 0 ~ 14.

Contrast: 0 ~ 14.

Sharpness: 0 ~ 14.

B&W-Mode: On, Off.

Flip-H: On, Off.

Flip-V: On, Off.

Gamma: EXT, Default, 0.45, 0.5, 0.56, 0.63.

Image Style: Default, Face, Jewelry.

4.5 FOCUS

Move the main menu cursor to [Focus], and press [HOME] key enter the noise reduction page, as shown in the following figure.

FOCUS		
▶	TOF Focus	On
	AF Sense	High
	Auto Focus	On
	AF Zone	Front
	Return	

TOF Focus: On, Off.

AF Sense: Low, Normal, High.

Auto Focus: On, Off.

AF Zone: Front, Top, Middle, Bottom.

4.6 NOISE REDUCTION

Move the main menu cursor to [Noise Reduction], and press [HOME] key enter the noise reduction page, as shown in the following figure.

NOISE REDUCTION		
▶	2D NR	Auto
	3D NR	Auto
	Return	

2D NR: Close, Auto, 1 ~ 5.

3D NR: Close, Auto, 1 ~ 8.

4.7 SETTING

Move the main menu cursor to [Setting], and press [HOME] key enter the setting page, as shown in the following figure.

SETTING	
▶	Language English
	Guard Position Preset 0 Priority
	Video Format 1080P60
	Audio Enable On
	Audio PC Mono On
	Return

Language: English, Chinese.

Guard Position: Preset 0 Priority, Zoom Stop Save.

Video Format: 1080P60, 1080P50, 1080P30, 720P60, 720P50.

Audio Enable: On, Off.

Audio PC Mono: On, Off.

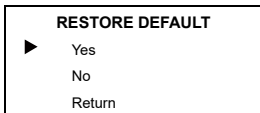
4.8 INFORMATION

Move the main menu cursor to [Information], and press [HOME] key enter information page, as shown in the following figure.

INFORMATION	
	Version 9.0.16
	Model P7.V
	Date 2022-01-15
	AF Version 7.3.19
	IP 192.168.100.88
	Gateway 192.168.100.1
	Netmask 255.255.255.0
▶	Return


4.9 RESTORE DEFAULT

Move the main menu cursor to [Restore Default], and press [HOME] key enter the restore default page, as shown in the following figure.



Yes: Confirm restore factory settings.

No: Cancel restore factory settings.

 **Note** GUI menu and parameters are subject to change without notice.

5 Network Function

5.1 Operating Environment

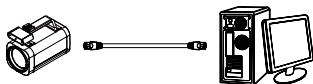
Operating System: Windows 7/8/10,
Mac OS X, Linux, Android
Network Protocol: TCP/IP
Client PC: P4/128M RAM/40G HDD/
support scaled graphics card, support
DirectX 8.0 or more advanced version.

5.2 Equipment Installation

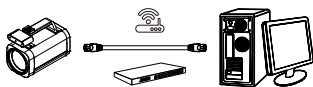
- 1) Connect camera to your internet or to your PC directly via internet cable.
- 2) Turn on DC 12V power.
- 3) If the network connection is normal, the connection light (green) at the network interface will light up within 5 seconds, and the data indicator (orange) will flash, indicating that the physical connection of the camera has been completed.

5.3 Internet Connection

There are two main ways to connect network camera.



Connect by Network Cable



Connect by Switch/Router

5.4 Camera Controlled by LAN

5.4.1 Setup IP Address

The default IP address of the camera is "192.168.100.88". If you don't know the camera IP, please view as below:

Method 1: Use the remote control to transfer out the OSD menu, and go to the information page to see the IP address.

Method 2: connect camera to PC with network cable, use "upgrade_En.exe" to search for IP address.



upgrade

Change IP address, two methods as below:

Method 1: Login the web page, select "Network > Lan Settings", change IP address, subnet mask and gateway. Click "Submit" and restart the camera.

Lan Settings

IP Configuration Type: Fixed IP Address

IP Address: 192.168.100.88

Subnet Mask: 255.255.255.0

Gateway: 192.168.100.1

DNS Address: 8.8.8.8

MAC Address: D4.E0.8E.8F.8F.74

Submit Cancel

Port Settings

HTTP Port: 80

RTSP Port: 554

TCP Port: 5678

UDP Port: 1259

Sony Visca: 52381

RTMP(S) Settings

First Stream: On Off Video Audio

MRL: rtmp://192.168.100.138/live/stream0

Second Stream: On Off Video Audio

MRL: rtmp://192.168.100.138/live/stream1

SRT Settings

SRT: On Off

SRT Port: 4578

SRT Encryption: None

SRT Password: 1234567890

RTSP Settings

RTSP Auth: On Off

ONVIF Settings

ONVIF: On Off

ONVIF Auth: On Off

Multicast Settings

Multicast: On Off

Address: 224.1.2.3

Port: 6688

NTP Settings

NTP time sync: On Off

Time Zone: (GMT+08:00) Beijing, Chi

Server address: cn.ntp.org.cn

Time interval(min): 1440

Main time show: On Off

Position: X 0 Y 0

Sub time show: On Off

Position: X 0 Y 0

Submit Cancel

Method 2: Open "upgrade_en.exe", Select the "Config" dialog, change IP Address and click "Set". After modified, the camera will be restart.

Config Backup

Mode: Manual Snapshot

IP Address: 192.168.100.88

NetMask: 255.255.255.0

GateWay: 192.168.100.1

First DNS: 8.8.8.8

MAC Address: D4 : E0 : 8E : 8F : 8F : 74

Set Rewrite Default

Change IP Address:

- Step 1** Search the IP address of camera.
- Step 2** Select the camera IP of you want to change.
- Step 3** Select config dialog of upgrade applets.
- Step 4** Change the IP address, netmask and gateway, then click "Set".

5.4.2 Access Camera

Input http://192.168.100.88 to web browser, the login window pop up, input username: admin, password: admin, shown as below:

Windows Security

The server 192.168.100.88 is asking for your user name and password. The server reports that it is from ..

Warning: Your user name and password will be sent using basic authentication on a connection that isn't secure.

User name:

Password:

Remember my credentials

OK Cancel

After login, shown as below:



Tips

IE browser does not support H5, you need to use VLC plug-in to view videos.

Please visit VLC website

(<http://www.videolan.org/vlc>) download and install the 32-bit VLC media player, after it installed, access camera will have normal image display. Other mainstream browsers already support H5 and do not need to install the VLC plug-in.

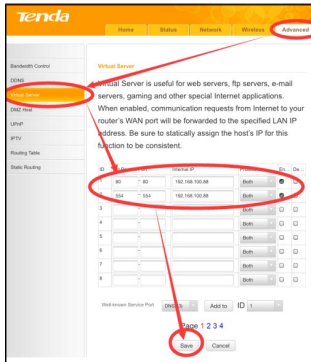
5.5 Camera Controlled by WAN

5.5.1 Setup IPC Controlled by Dynamic DNS

Two dynamic DNS available: Dyndns.org, 3322.org

Router Port Mapping:

Take Tenda router for example, enter Router Home Page (interface page), select "Advanced"- "Virtual Server", add a new port number in "Ext Port", add a new port number in "Int port", put camera IP address to "Internal IP", then select "Save", shown as below:



5.5.2 Dynamic DNS Access Camera

Set domain name to camera, setup the parameter, then dynamic DNS can access camera. Access link: <http://hostname: port number>. For example, setup host computer name: youdomain.f3322.org, camera port number: 89. Access link should be: <http://youdomain.3322.org:89>.



Tips

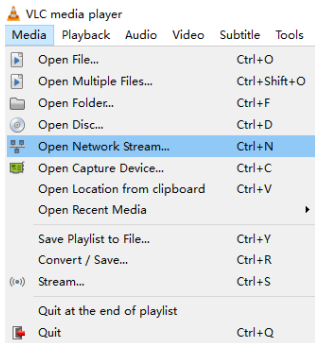
If camera port default as 80, then unnecessary to input port number, use host name can access camera directly.

5.5.3 VLC Stream Media Player

Access VLC Media Server Program

Step 1 Open VLC media player.

Step 2 Click "Media > Open Network Stream", or click "Ctrl + N"; as below:



Step 3 Input URL address:

First Stream:

rtsp://ip: port number/1

Second Stream:

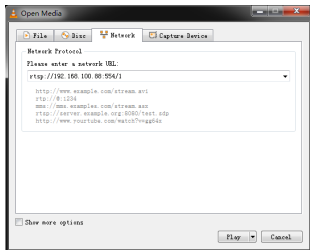
rtsp://ip: port number/2

Step 4 Finish.



Tips

RTSP port number default 554.



5.6 Camera Parameter Setup

5.6.1 Homepage Introduction

A. Video Viewing Window

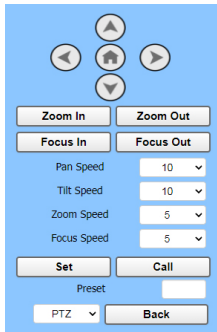
Video viewing window must be same as video resolution, the bigger the resolution is, the bigger the playing area is. Double click viewing window, it will show full-screen, double click again, it will return to initialized size.

Status bar in viewing window shown as below:



- 1) Video playback pause button: control real-time video pause, stop the last picture, click recoverable video again.
- 2) Audio control button: can adjust the volume or set silent mode.
- 3) Full screen switch button.

B. Lens Control Settings



1) Lens Control

Up, Down, Left and Right arrows and the home button allow you to manually drive the camera to the desired position.

2) Zoom

Zoom In and Zoom Out buttons allow for wide or narrow view of the space.

3) Focus

Focus In and Focus Out buttons allow for fine manual focus adjustment if the camera has any problems auto focusing on the difficult object.

4) PTZ Speeds

Pan speed can be set at any rate between 1 ~ 24, Tilt speed can be set at any rate between 1 ~ 20. Zoom and Focus speeds can be set at any rate between 1 ~ 7.

5) Set Up Preset

After manually setting up a shot that you would like to return to later, you can save presets for quick recall of these positions. Type a number between 0 and 254 into the Preset box.

Click the "Set" button to save the current location with that preset number. Click the "Call" button to cause the camera to return to that position. This enables smooth, quick and convenient control without the need to manually drive the camera.

You can set up preset that user want as below.

Method: Type a number into the Preset box.

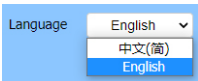


Preset: Optional items: 0 ~ 254.

6) PTZ / OSD Dropdown

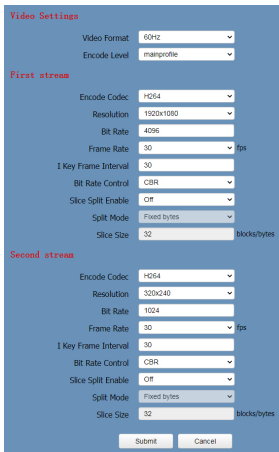
From the dropdown menu, click the OSD option will open the on-screen display menu of the camera giving you control from within the IP interface.

C. Language Selection



Click "Chinese" or "English" to change the language of the webpage.

5.6.2 Video Settings



1) Video Format

Support 50Hz and 60Hz two formats.

2) Encode Level

Support baseline, mainprofile and highprofile three levels.

3) Encode Codec

Support H.264, H.265 and MJPEG protocol.

4) Resolution

First stream support 1920x1080, 1280x720, The second stream support 1280x720, 640x360; The bigger resolution is, the clearer the image will be, more network bandwidth will be taken.

5) Bit Rate

The user can specify the bit rate. Generally speaking, the larger of the bit rate, the clearer of the image. However, the configuration of the bit rate needs to be combined with the network bandwidth. When the network bandwidth is narrow and the bit rate is configured larger, the video stream cannot be transmitted normally, and the visual effect is worse.

6) Frame Rate

User can specify the size of the frame rate, generally, the frame rate greater, the image will more smooth; Frame rate is smaller, the more sense of beating.

7) I Key Frame Interval

Set interval between three I frame, the bigger interval is the response will be lower from viewing window.

8) Bit Rate Control

CBR (Constant Bit Rate): Video coder will be coding according to preset speed.

VBR (Variable Bit Rate): Video coder will adjust the speed based on preset speed to gain the best image quality.

9) Slice Split Enable

Enable or disable slice split function.

10) Split Mode

Select split mode, optional items: Fixed blocks, Fixed bytes.

11) Slice Size

Set the size of slice.

5.6.3 Image Settings**1) Focus**

Setting Focus Mode, Focus Region and AF Sense.

2) Exposure

Setting Exposure Mode, ExpCompMode, Backlight, Anti-Flicker, Gain Limit and Drc.

3) Color

Setting WB Mode, RGain, BGain, Saturation and Hue.

4) Image

Setting Luminance, Contrast, Sharpness, Gamma, Black & White, Flip-H and Flip-V.

5) Noise Reduction

Setting 2D NR and 3D NR.

6) Style

Setting the value of Style.

5.6.4 Audio Settings

Audio Settings

Audio Switch

Audio Type

Sample Rate

Bit Rate

Input Type

ADTS Options

1) Audio Switch

Optional items: On, Off.

2) Audio Type

Audio Type AAC.

3) Sample Rate

Sample Rate 32K.

4) Bit Rate

Optional items: 96K, 128K, 256K.

5) Input Type

Input Type MIC.

6) ADTS Options

Optional items: On, Off.

5.6.5 System Settings

Initialize

Reboot

User

UserName

Password

Guest

Password

1) Reboot

Click the "Reboot" button, system restart.

2) Username and Password

The user can modify the password (letters and Numbers only).

5.6.6 Network Settings

Lan Settings

IP Configuration Type

IP Address

Subnet Mask

Gateway

DNS Address

MAC Address

Port Settings

HTTP Port

RTSP Port

TCP Port

UDP Port

Sony Visca

RTMP(S) Settings

First Stream On Off Video Audio

MRL

Second Stream On Off Video Audio

MRL

SRT Settings

SRT On Off

SRT Port

SRT Encryption

SRT Password

RTSP Settings

RTSP Auth On Off

ONVIF Settings

ONVIF On Off

ONVIF Auth On Off

Multicast Settings

Multicast On Off

Address

Port

NTP Settings

NTP time sync On Off

Time Zone

Server address

Time interval(min)

Main time show On Off

Position X Y

Sub time show On Off

Position X Y

1) Lan Settings

Default the IP address is 192.168.100.88, The MAC address cannot be modified.

2) Port Settings

A. HTTP Port

IP address identifies the network device, the device can run multiple web applications, each network program using network port to transmit data, so data transmission to be carried out between the port and port. Port setting is to set up web server program using which port to transmit. When port mapping, need to be consistent with the port number (default port: 80).

B. RTSP Port

The camera support RTSP protocol, use the VLC tools broadcast, default port: 554.

C. TCP Port

Support TCP connection then control camera, default port: 5678.

D. UDP Port

Support UDP protocol, default port: 1259.

E. Sony Visca

Support Sony Visca, default value: 52381.

3) RTMP(S) Settings

Setting the MRL of RTMP, select enable or disable video and audio. You can select control code stream of "On", "Off", "Video", "Audio" between in the two streams.

4) SRT Settings

Turn On/Off SRT, Setting the SRT Port, SRT Ency and SRT Password.

5) RTSP Settings

Turn On/Off RTSP Auth.

6) ONVIF Settings

Turn On/Off ONVIF and ONVIF Auth.

7) Multicast Settings

Turn On/Off multicast. Setting the multicast address (default value is 224.1.2.3) and port (default value is 6688, then 6688 is the multicast port of the first stream; 6690 is the multicast port of the second stream).

8) NTP Settings

Turn On/Off NTP time sync, main time show and sub time show. Setting NTP server address, time interval, main stream position and sub stream position.

5.6.7 Device Information

Display the current device information.

5.7 Download the Camera Upgrade Program

If you need the camera upgrade program, please contact the manufacturer.



Note WEB interface and parameters are subject to change without notice.

6 Maintenance and Troubleshooting

Camera Maintains

- If camera will not be used for a long time, please turn off the power, disconnect AC power cord of AC adapter to the outlet.
- Use soft cloth or tissue to clean the camera cover.
- Please use the soft dry cloth to clean the lens. If the camera is very dirty, clean it with diluted neuter detergent. Do not use any type of solvents, which may damages the surface.

Unqualified Application

- No shooting extreme bright object for a long period of time, such as sunlight, light sources, etc.
- No operating in unstable lighting conditions, otherwise image will be flickering.
- No operating close to powerful electromagnetic radiation, such as TV or radio transmitters, etc.

Troubleshooting

Image

- The monitor shows no image
 - 1) Check that the camera power supply is connected, the voltage is normal, and the power indicator light is always on.
 - 2) Check the cable of video platform and TV whether correct connection.
- Sometimes without the image

Check the cable of video platform and TV whether correct connection.

 - 1) Image have jitter when the camera lens at max multiple.
 - 1) Check whether the camera installed position be stabled.
 - 2) Check whether have vibrating machinery or object near the camera.
- There is no video image in Browser

IE browser does not support H5, you need to use VLC plug-in to view videos. Please visit VLC website (<http://www.videolan.org/vlc>) download and install the 32-bit VLC media player, after it installed, access camera will have normal image display. Other mainstream browsers

already support H5 and do not need to install the VLC plug-in.

- Unable to access camera through Browser
- 1) Using PC to access the network to test whether the network access can work properly, first of all, the network fault caused by the PC virus can be eliminated, until the PC and camera can communicate with each other Ping.
 - 2) Disconnect the network, connect the camera and PC separately, and reset the IP address of PC.
 - 3) Check IP address, subnet mask, and gateway settings for camera.
 - 4) Check whether the MAC address is conflicts.
 - 5) Check whether the web port is modified. The default is 80.

- Forget the IP address or login password
Please remember (The default IP address: 192.168.100.88; default user name: admin; default password: admin).

Control

Remote control cannot control

- 1) Check and replace the new battery for the remote controller.
- 2) Check whether the camera working mode is correct.
- 3) Check whether the address of remote control can match the camera.

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