

Intelligent IP Camera User Manual (Web Browser)

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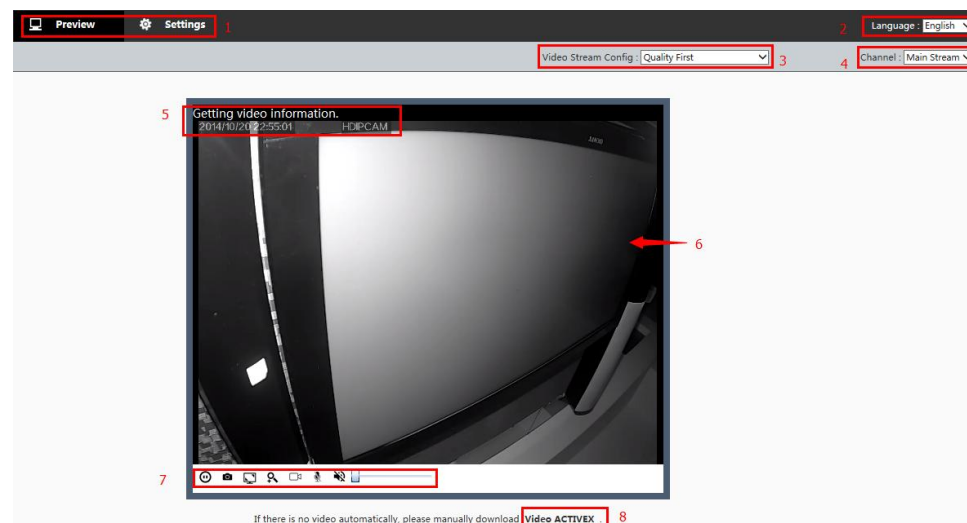
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1 Preview Interface

The IE preview interface contains 8 zones as below:



1	Main menu	5	Camera info
2	Language	6	Live view
3	Video stream config.	7	OSD buttons
4	Stream channel	8	Link for Video ActiveX

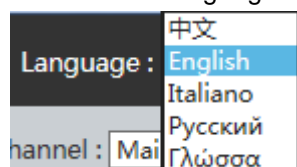
1.1 Main Menu

The main menu contains 2 parts:

- Preview: the main interface to do live view.
- Settings: to set parameters of system, network, video& audio, storage, event, safety, log, and do maintenance such as resetting to default and upgrading.

1.2 Language

Switch to the language meets your requirement.



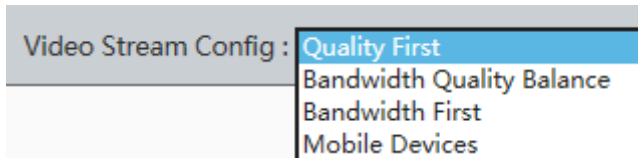
1.3 Video Stream Configuration

Concerning video stream configuration, there are 4 options for users:

- Quality first: It can ensure the quality of video and occupy more bandwidth;
- Bandwidth Quality Balance: It can provide high quality picture based on certain band

width;

- Bandwidth First: It can ensure the smooth streaming of video;
- Mobile Devices: It's used for mobile devices to view video image.

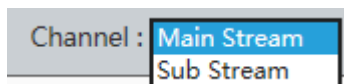


1.4 Stream Channel

It provides 2 kinds of video streams:

- Main stream: with resolution 720P, 1080P or higher;
- Sub stream: with resolution D1 (704*576), VGA (640*480), CIF (352*288) and QVGA (320*240).

Quick way to optimize picture quality display: select "Video Stream Config: Quality First" and "Channel: Main Stream". For video stream parameters settings, please refer to Chapter 2.4.2.



1.5 Camera Info



It provide overlapping displayed the camera name, encode type, resolution, frame rate, transmission speed, date & time, other customized text and image information. For camera info setting, please refer to Chapter 2.1.6.1 Common and 2.1.8 Maintenance -General.


1.6 Live view


It's used to display current camera image.

1.7 OSD Buttons

You can set basic functions by clicking relative buttons.

 : Play/ Stop preview. Video transmission will stop after clicking this button and no live video will show. Video transmission will return to normal after clicking the button again.


: Snap the current image.

: Enter/Exit Full-screen display mode. You can also double click the image to enter/exit full screen display.

: Digital Zoom

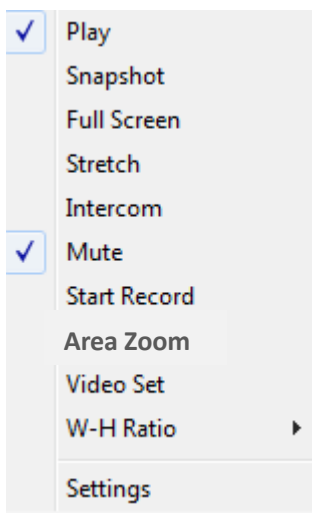
: Start/Stop Record

 : Turn on / Turn off interphone

 : Turn on / Turn off Speaker

 Volume Control

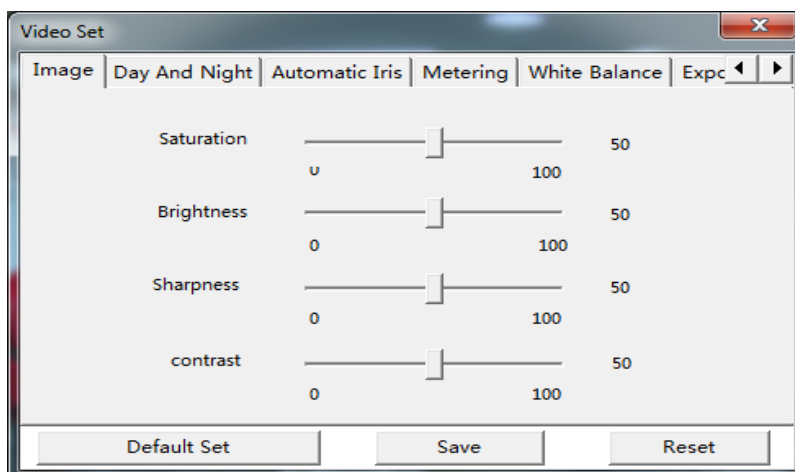
Users also can right click on the live preview screen to get following menu:



Menu	Description
Play	Play/Stop preview
Snapshot	Snapshot
Full Screen	Enter/Exit full screen
Stretch	Stretch/Shrink the screen
Intercom	Start/Stop interphone
Mute	Enable/Disable audio
Start Record	Start/Stop record
Area Zoom	Area zoom/Restore Zoom
Video Set	Open Video Set window
W-H Ratio	Width Height ratio, default /4:3/16:9 optional
Settings	Open Settings window

1.7.1 Video Set Window

Click Video Set tag on menu list of preview screen to enter video set panel shown as below image.



Default Set: click this button to get the Video Set default settings.

Save: click this button to save your changes.

Reset: click this button to abandon your changes.

Image:

Saturation: 0-100 configurable

Brightness: 0-100 configurable

Sharpness: 0-100 configurable

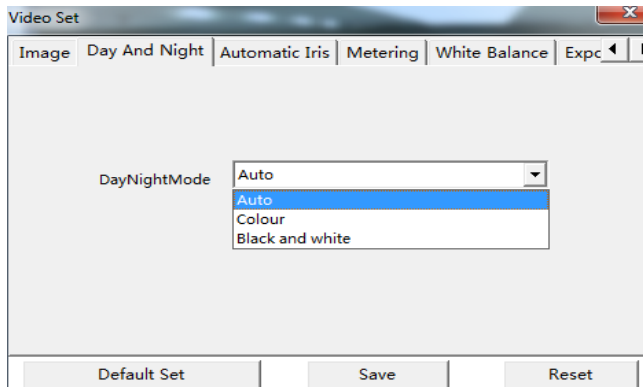
Contrast: 0-100 configurable

Day and Night:

Auto: Day/night switch automatically

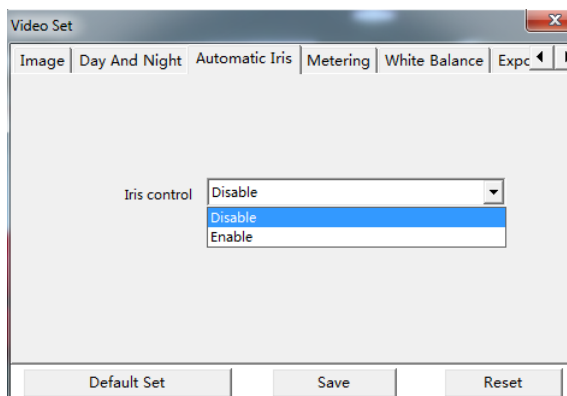
Color: always keep color image.

Black and white: always keep black and white image



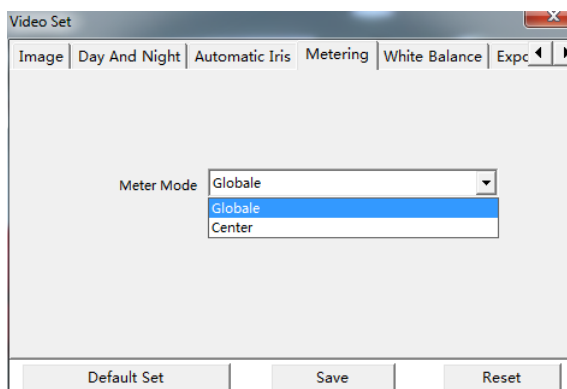
Automatic Iris

Iris control: Disable/Enable optional



Metering:

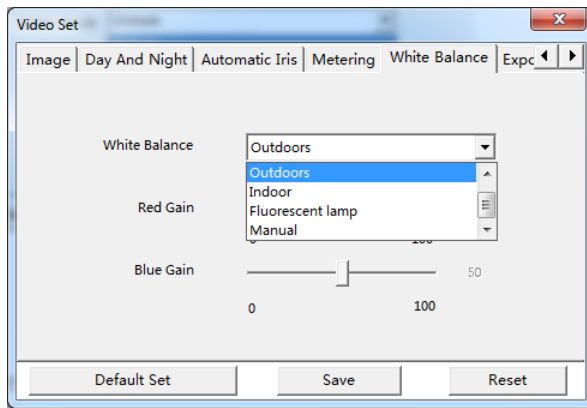
Meter Mode: Global/Center optional



White Balance:

White Balance: Outdoors/Indoor/Fluorescent lamp/Manual

Red Gain & Blue Gain: 0-100 configurable

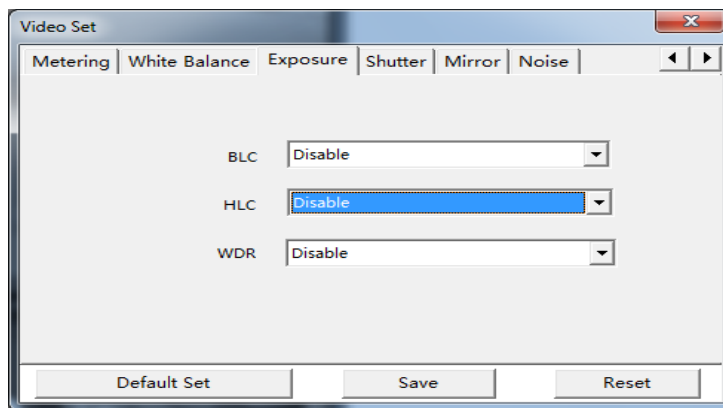


Exposure:

BLC: Disable/Enable optional

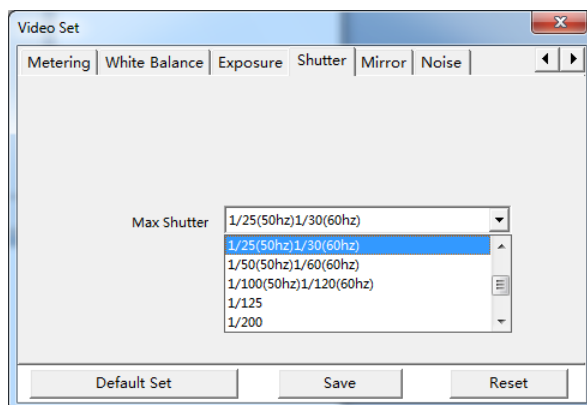
HLC: Disable/Enable optional

WDR: Disable/Enable optional



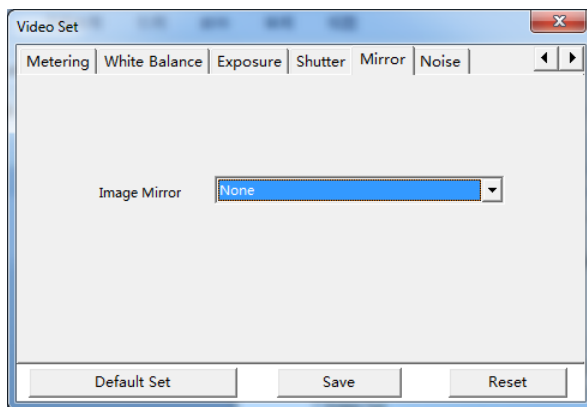
Shutter:

Max shutter: 1/5, 1/10, 1/15, 1/20, 1/25(50hz)1/30(60hz), 1/50(50hz)1/60(60hz), 1/100(50hz)1/120(60hz), 1/125, 1/200, 1/500, 1/1000 optional.



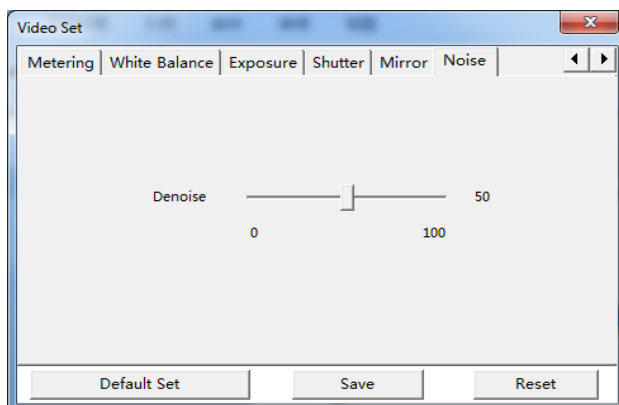
Mirror:

Image Mirror: None, Vertical, Horizontal, Vertical Horizontal optional.



Noise:

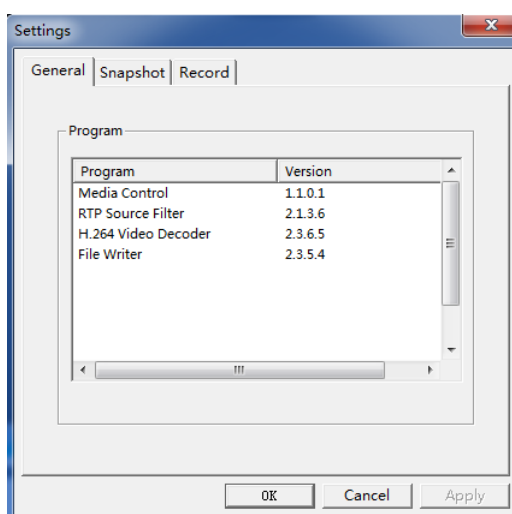
Denoise: 0-100 configurable



1.7.2 Snapshot and Record Settings

Click Settings tag on menu list of preview screen to enter settings panel, shown as below image.

General: Program's general information is listed here.



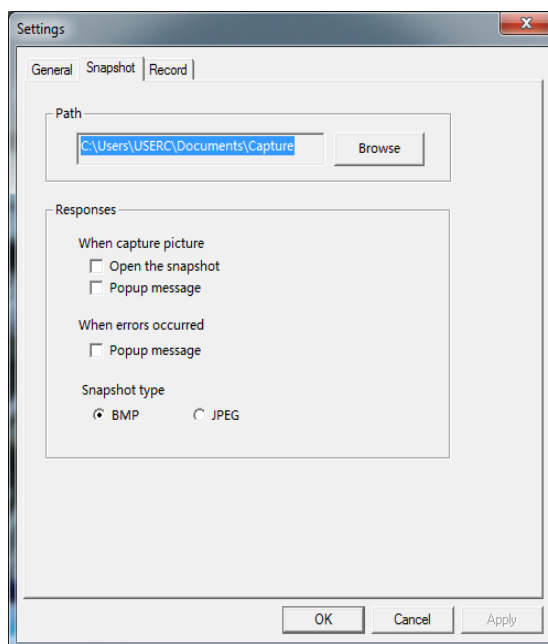
Snapshot: Change snapshot's basic setting here.

Click Browse to select a path to save snapshots.

Response: When capture picture, enable/disable Open the snapshot, Popup message.

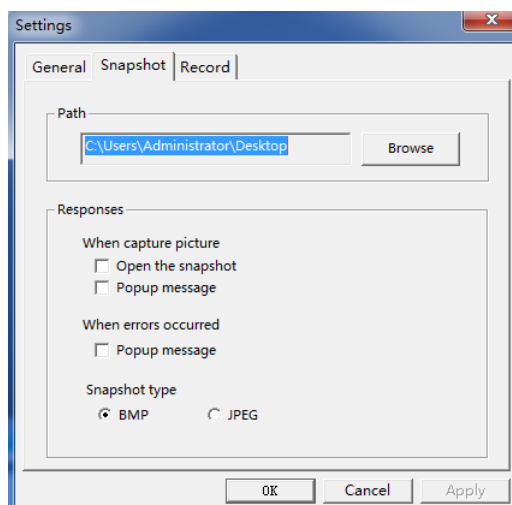
When errors occurred, enable/disable Popup message.

Snapshot type: BMP or JPEG.



Record:

Save as: click Browse to select a path to save the recorded files.



1.8 Video ActiveX

If there is no video automatically, please manually download Video ActiveX.

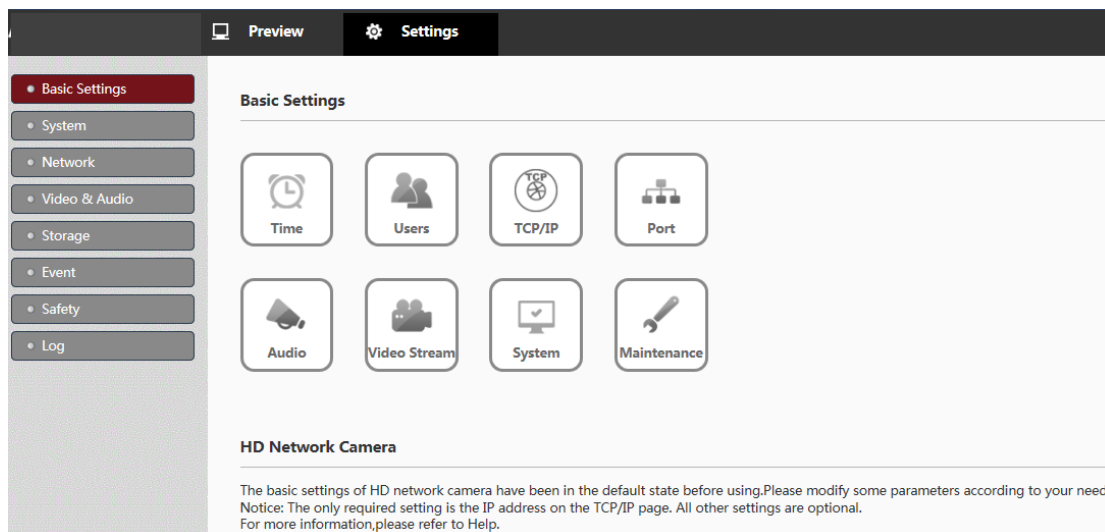
Please enable of functions under ActiveX controls and plug-ins on "Internet Options" interface if ActiveX downloading fails.

On "Internet Options" interface, click "Custom level" button to enter into "Security Settings-Internet Zone", then enable all of functions under ActiveX controls and plug-ins.

2 Settings Interface

Click Setting on the screen to enter Setting interface.

Users can make basic settings, set parameters of system, network, video& audio, storage, event, safety, log, and do maintenance such as resetting to default and upgrading.

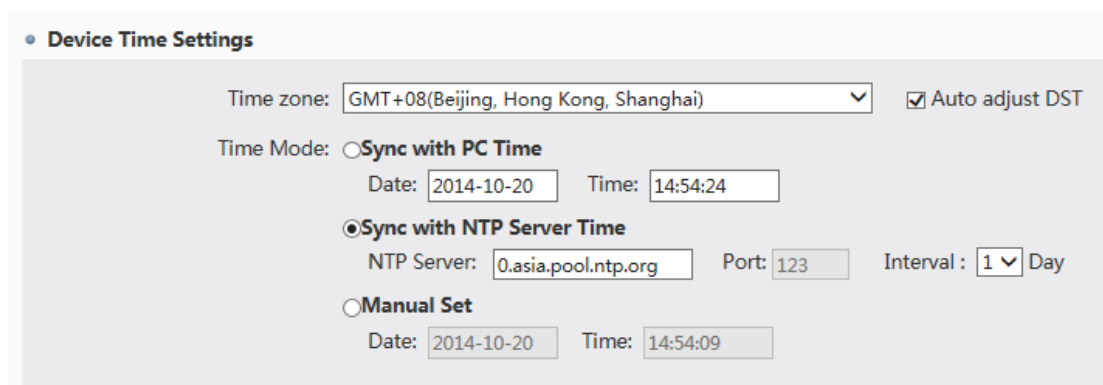


2.1 Basic Settings

There are 8 quick access icons for basic settings, as above image shown:

Click each icon to enter corresponded menu page.

2.1.1 Time



Choose time zone according to requirements. "Auto adjust DST" can be enabled.

There are three time modes optional:

- Sync with PC time.
- Sync with NTP server time: please fill in the right info about NTP server address and port, and set 1 to 5 days as interval.
- Manual Set: you can set time manually.

Device time will show on the upper left corner of preview interface after saved.

2.1.2 Users

2.1.2.1 User List

Existing user List shows as below. There are max. 15 users including admin.

Safety

User IP Filtering

• User List

Username	
admin	Administrator

Add Modify Delete

2.1.2.2 User configuration

Add user: click “add” button and fill in user name, password, and confirm password in the pop-up window. Set it as role administrator, operator, or viewer. Different roles have different authority. No **upgrading** and user management authority for operators. Only log & report authority for viewers.

User Settings

Username:

Password: (Max 8 characters)

Confirm Password:

☒ Administrator
☐ Operator
☐ Viewer

• System authority settings

<input checked="" type="checkbox"/> Data & Time	<input checked="" type="checkbox"/> Serial Port Settings
<input checked="" type="checkbox"/> Alarm Settings	<input checked="" type="checkbox"/> Maintenance
<input checked="" type="checkbox"/> Upgrade	

• Network authority settings

<input checked="" type="checkbox"/> WIFI	<input checked="" type="checkbox"/> FTP
<input checked="" type="checkbox"/> SMTP	<input checked="" type="checkbox"/> PPPoE
<input checked="" type="checkbox"/> UPnP	<input checked="" type="checkbox"/> Port Settings
<input checked="" type="checkbox"/> 3G Setting	<input checked="" type="checkbox"/> TCP/IP
<input checked="" type="checkbox"/> Multicast Settings	<input checked="" type="checkbox"/> DDNS Settings
<input checked="" type="checkbox"/> ID register settings	

• Audio video authority settings

<input checked="" type="checkbox"/> Video Shield	<input checked="" type="checkbox"/> Video Stream
<input checked="" type="checkbox"/> Audio Setting	<input checked="" type="checkbox"/> Camera Settings
<input checked="" type="checkbox"/> Motion Detection	<input checked="" type="checkbox"/> Privacy Mask

• Storage authority settings

<input checked="" type="checkbox"/> SD Card Settings	<input checked="" type="checkbox"/> Record
--	--

• Event authority settings

<input checked="" type="checkbox"/> Event Server	<input checked="" type="checkbox"/> Event Type
<input checked="" type="checkbox"/> Schedule Upload	<input checked="" type="checkbox"/> Schedule Record
<input checked="" type="checkbox"/> Schedule Record	

• Safety authority settings

<input checked="" type="checkbox"/> User Management	<input checked="" type="checkbox"/> IP Filtering
---	--

• Log authority settings

<input checked="" type="checkbox"/> Log & Report
--

OK Cancel

Edit User: select the user and click edit, then change its password and authority. For the default user admin, only password can be changed.

Delete User: select the user and click delete, then it will be deleted. The default user admin can't be deleted.

2.1.3 TCP/IP

Network

TCP/IP
Port
WIFI
3G
FTP
PPPoE
SMTP
UPnP
RTSP
ID Register

- Basic Network Status

Current network settings:
View

- Network Settings

☐ DHCP
☒ Use Static IP

IP address:
192.168.1.120
Test
Subnet mask:
255.255.255.0
Gateway:
192.168.1.1
Primary DNS:
8.8.8.8
Secondary DNS

- DDNS Settings

DDNS:
Set

Basic Network Status:

Click View to see your network camera's current network settings.

Network Settings:

DHCP: Click the checkbox of DHCP to enable this function.

USE Static IP: Click the checkbox of Use Static IP to enable this function, and then input its IP address, Subnet mask, Gateway, Primary DNS and Secondary DNS.

The camera will restart after changing its IP address.

DDNS Settings:

Click Set to change your DDNS settings.

2.1.4 Port

Http port, RTSP port and TCP port are available for changing.

Http port: 10000..50000, default is 80.

RTSP port: 10000..50000, Default is 554

TCP port: 10000..50000, Default is 6000.

Network

TCP/IP
Port
WIFI
3G
FTP
PPPoE
SMTP
RTSP

HTTP Port:
80
[10000..50000,
RTSP Port:
554
[10000..50000,
TCP Port :
6000
[10000..50000,

Save
Reset

2.1.5 Audio

Video & Audio

Audio Video Stream Image Settings Privacy Mask Video Shield Motion Detection

Note: Audio input is auto default settings

• **Audio Parameters**

Audio codec format: G.711A ▼

Audio Input: Line-in ▼

Save Reset

Audio codec format: G.711A or G.711U. Audio codec format will work after camera restarting.
Audio Input: Line-in or MIC. Microphone input will work if the camera hardware supports it.
Click Save to save your settings or click reset, to do settings again.

2.1.6 Video Stream

There are three tabs for video stream settings: common, video stream and MJPEG.

2.1.6.1 Common

Image mirror: Users can do horizontal mirror and vertical mirror.

OSD: Click the checkbox “Display system info”, “Display date”, “Display time” and “Display user-defined content (characters size can be large, middle or small)” and then relative info will show in the upper left corner of the live view interface in default.

Overlay Icon: browser the picture (50*50 JPG file) and upload it then it will show in the live view window.

Change OSD location: users can move OSD info and overlay icon to other locations.

Video & Audio

Audio

Video Stream

Image Settings

Privacy Mask

Video Shield

Motion Detection

Common

Video Stream

mjpeg

• Image Mirror

☐ Horizontal

☐ Vertical

• OSD

☒ Display system info

☒ Display date

☒ Display time

☐ Display user-defined content Max 10 characters.

Font size

• Overlay Icon

☐ Display Icon:

Notice:1.The picture should not be more than 50*50 px in jpg format.
2.For more information,please refer to Help.

Date and time Format: Options YYYY-MM-DD, MM-DD-YYYY and DD-MM-YYYY for date format and 12h and 24h for time format. They show in the second line of the live view window in default.

Analog Output Setting: click the checkbox “enable analog video output” then image will show when the camera is connected to analog DVR. Or the analog image will be locked. This function only works when the camera hardware supports analog output. Click Save to save your settings or click reset, to do settings again.

• Date &Time Format

Date format:

Time format:

• Analog Output Setting

☐ Enable analog video output

2.1.6.2 Video Stream

Encode type is always H.264.

Main stream Resolution: 5M > 3M > 1080P (2M) >960P (1.3MP) >720P (1MP).

Sub stream Resolution: D1> VGA > CIF >QCIF.

Key frame Interval: 25-100 (means how many fps comes one key frame, 25 means after every 25fps there is 1 key frame come, the smaller you choose, the quicker to switch from main-sub stream, the higher storage need).

15 / 33

Bit-rate Type:

For Main Stream/Sub stream: VBR, CBR (set bit rate according to limitation range, the higher the better picture quality but higher storage need).

Bit rate: main stream's bit rate is 1500~4000 kbit/s configurable for 720P/960P, 3000~8000 kbit/s configurable for 1080P. Sub stream's bit rate is 50~1000 kbit/s configurable.

Encode Quality: 1-6 configurable (6 is the best) for VBR bit type.

Frame Rate: 1-30 or 1-25 configurable.

The screenshot displays a web-based configuration interface for video streaming. At the top, there are tabs for 'Audio', 'Video Stream' (which is selected), 'Image Settings', 'Privacy Mask', 'Video Shield', and 'Motion Detection'. Below these tabs, there are sub-tabs for 'Common', 'Video Stream' (selected), and 'mjpeg'. The 'Video Stream' section is divided into several expandable panels:

- Global Settings:** Contains dropdown menus for 'Encode type' (set to H.264), 'Main Stream Resolution' (set to 720P(1280*720)), and 'Sub Stream Resolution' (set to VGA(640*480)).
- Video Stream:** Contains a dropdown for 'Video Stream ID' (set to Main stream).
- Key Frame Interval:** Contains a 'Length' input field set to 50, with a range of [25...100] indicated.
- Bitrate Control:** Contains a 'Bitrate type' section with radio buttons for 'VBR' (selected) and 'CBR'. Below this is a 'Bit rate' input field set to 4800 kbit/s, with a range of [1000..4000] indicated. At the bottom of this panel is an 'Encode Quality' dropdown set to 4.
- Frame Rate:** Contains a 'Frame Rate' input field set to 15, with 'fps' indicated.

2.1.6.3 MJPEG

MJPEG:

Quality: 1-7 configurable, the larger value, the higher image quality.

Frame rate: 1-5 configurable.

Snapshot interval: 1-600s configurable.

Video & Audio

Audio

Video Stream

Image Settings

Privacy Mask

Video Shield

Motion Detection

Common

Video Stream

mjpeg

• Image Settings

Quality:

4

 The value larger, the picture quality higher.

Frame Rate:

1

 fps

Snapshot interval

5

 s(1...600)

Save

Reset

2.1.7 System

Users can find out the camera's firmware version, hardware version, Onvif version, MAC address and serial number here.

System

Time

System info

Maintenance

Serial Port

Alarm

System Status

Firmware version: HIPCAM_V1.22.141007

Hardware Version: 600101000-BV-H0100

Onvif Version: 2.4

MAC Address: 74:37:2f:15:51:2e

Serial Number: 1234567890



2.1.8 Maintenance

Reboot: Reboot the camera.

Default: Reset all parameters except IP to default settings.

Restore: Restore all parameters to factory settings.

Upgrade: browser the upgrading file and then click upgrade. Please don't power off while doing upgrading. Windows firewall may should be turned off before upgrading.

General: name your device and it will show on the live video window quickly.

System

Time
System info
Maintenance
Serial Port
Alarm
System Status

- Maintenance**

Reboot

 Reboot the camera

Default

 Reset all parameters except IP to default settings

Restore

 Restore all parameters to factory settings
- Upgrade**

Upgrade to latest version

Assign the upgrade file:

Browse

Click

Upgrade

Note:

 1. If cannot upgrade, please refer to Help document.
 2. Please don't cut off power supply during upgrade process. The camera will auto reboot after upgrading complete. (1-10 min)
- General**

Device Name:

HDIPCAM

Save

Reset

2.2 System

There are 6 tabs: time, system info, maintenance, serial port, alarm, and system status.

- Basic Settings
- System**
- Network
- Video & Audio
- Storage
- Event
- Safety
- Log

System

Time
System info
Maintenance
Serial Port
Alarm
System Status

- Date & Time**

Date:

2014-10-20

Time:

17:29:01
- Device Time Settings**

Time zone:

GMT+08(Beijing, Hong Kong, Shanghai)

☒ Auto adjust DST

Time Mode:

☐ Sync with PC Time

Date:

2014-10-20

Time:

17:28:55

☒ Sync with NTP Server Time

NTP Server:

0.asia.pool.ntp.org

Port:

123

Interval:

1

Day

☐ Manual Set

Date:

2014-10-20

Time:

17:29:00

Save

Reset

2.2.1 Time

Refer to 2.1.1 for details.

2.2.2 System Info

Refer to 2.1.7 for details.

2.2.3 Maintenance

Refer to 2.1.8 for details.

2.2.4 Serial Port

It's used to enable/disable serial port function. This function only works when the camera hardware supports it.

System

Time

System info

Maintenance

Serial Port

Alarm

System Status

Note:The device dosen't support this function

Enable: ☐

Baud rate: B1200 ▾

Data bit: CS8 ▾

Parity : None ▾

Stop bit: 1 ▾

Date stream control: None ▾

Save

Reset

2.2.5 Alarm

It's used to set alarm function. This function only works when the camera hardware supports it.

System

Time

System info

Maintenance

Serial Port

Alarm

System Status

• I/O Alarm

Alarm input number: 1

Alarm output number: 1

• Alarm List:

Interface Name: I/O Alarm

Trigger level: Low ▾

Alarm output level: Low ▾

Save

Reset

2.2.6 System Status

It shows system overview and main functions enabled/disabled.

The screenshot displays two panels from a web interface. The left panel, titled 'System Overview', contains the following information: Hardware Version: 600101000-BV-H0100, Serial Number: 1234567890, IP: 192.168.1.120(static), Date & Time: 2014-10-20 17:42:11, Uptime: 72:45:07, and Time mode: Sync with NTP Server Time. The right panel, titled 'System Status', lists various services and their status: Video: Enable, Audio: Enable, FTP: Enable, UPnP: Enable, RTSP: Enable, Record: Disable, Snapshot: Disable, TCP: Enable, DDNS: Disable, and Onvif: Enable.

Service	System Status
Video	Enable
Audio	Enable
FTP	Enable
UPnP	Enable
RTSP	Enable
Record	Disable
Snapshot	Disable
TCP	Enable
DDNS	Disable
Onvif	Enable

2.3 Network

There are 11 tabs: TCP/IP, Port, WIFI, 3G, FTP, PPPoE, SMTP, UPnP, RTSP, and ID Register.

The screenshot shows the 'Network' configuration page. On the left is a sidebar with navigation links: Basic Settings, System, Network (selected), Video & Audio, Storage, Event, Safety, and Log. The main content area has a 'Network' title and a row of 11 tabs: TCP/IP, Port, WIFI, 3G, FTP, PPPoE, SMTP, UPnP, RTSP, and ID Register. The 'Basic Network Status' section shows 'Current network settings:' with a 'View' button. The 'Network Settings' section has two radio buttons: 'DHCP' (unselected) and 'Use Static IP' (selected). Under 'Use Static IP', there are input fields for IP address (192.168.1.120), Subnet mask (255.255.255.0), Gateway (192.168.1.1), Primary DNS (8.8.8.8), and Secondary DNS (empty). A 'Test' button is next to the IP address field. The 'DDNS Settings' section has a 'DDNS:' label and a 'Set' button. At the bottom are 'Save' and 'Reset' buttons.

2.3.1 TCP/IP

Refer to 2.1.3 for details.

2.3.2 Port

Refer to 2.1.4 for details.

2.3.3 WIFI

TCP/IPPortWIFI3GFTPPPPoESMTPTSP

Note: The device doesn't support the function

Wireless List

Num.	SSID	Signal	Authentication	Encryption
------	------	--------	----------------	------------

Refresh

WIFI Parameters

Wireless Status: Disable

SSID:

Authentication / Encryption: OPEN/NONE

Key:

WIFI Status

Connection Status: Disconnected

Current IP:

Save

Reset

WIFI parameters can be set if the device supports WIFI function. Fill in the SSID and key, and select the correct Authentication/ Encryption mode.

2.3.4 3G

3G parameters can be set if the device supports 3G function. Fill in the access point name, dial number, username, password, and select the correct Authentication mode. An IP address will be assigned to this device after setting correctly.

Network

TCP/IP
Port
WIFI
3G
FTP
PPPoE
SMTP
UPnP
RTSP
ID Register

Note: The device don't support the function

Enable or not: ☐

Access point name:

Dial number:

Username:

Password:

Authentication way: CHAP

IP: 0.0.0.0

Save
Reset

2.3.5 FTP

Users can set FTP server's info here.

Network

TCP/IP
Port
WIFI
3G
FTP
PPPoE
SMTP
UPnP
RTSP
ID Register

Server Address:

Server Port: 21 [1..65535]

Username: (Max 31 bit)

Password: (Max 31 bit)

Overtime: 10 [5...30]times

Re-connect: 5 [5...30]times

Remote Path: / (The default directory is the FTP server root directory)

☐ Breakpoint Resume

☐ Anonymous Login

Save
Reset

2.3.6 PPPoE

The Point-to-Point Protocol over Ethernet (PPPoE) is a network protocol for encapsulating PPP frames inside Ethernet frames. Enable PPPoE and then fill in username and password to make PPPoE function works.

Network

TCP/IP Port WIFI 3G FTP **PPPoE** SMTP UPnP RTSP ID Register

Enable PPPoE: ☐

Username:

Password:

Save Reset

2.3.7 SMTP

Please set gateway and DNS info before SMTP settings.

Main email server: the default SMTP server.

Sub email server: when main email server is not available, sub email server will be activated.

Click the checkbox of Enable authentication to login email server, to input user name and password (if required).

Click the checkbox of SSL to enable SSL function (if required).

Type in the email address to receive test email with title of Just for Test.

Network

TCP/IP Port WIFI 3G FTP PPPoE **SMTP** UPnP RTSP ID Register

SMTP Settings

Main email server: (Domain or IP)

Port: [1..65535]

☐ Enable authentication to login email server

Sub email server: (Domain or IP)

Port: [1..65535]

☐ Enable authentication to login email server

Send Email

☐ SSL(if enabled, server port default as 465)

1 You didn't set email server, the email cannot send out.

2 If used Domain, please specify a valid DNS server

Receive Email

Email 1:

Email 2:

Email 3:

Email 4:

Test:

Email Test:

Save Reset

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2.3.8 UPnP

This function needs Router's support.

Camera Name: IPNC in default. Max. 20 characters.

UPnP mapping list: max. 10 mapping.

Add UPnP mapping manually: click Add then choose enable Yes, fill in internal port and external port.

Network

TCP/IP Port WIFI 3G FTP PPPoE SMTP **UPnP** RTSP ID Register

UPnP Settings

Camera name:

UPnP Mapping List

Internal Port	External Port	Protocol	Enable	Status
---------------	---------------	----------	--------	--------

UPnP Mapping Settings

General

Enable ☒ Yes ☐ No

Protocol:

Internal Port: [1..65535]

External Port: [1..65535]

2.3.9 RTSP

The Real Time Streaming Protocol (RTSP) is a network control protocol designed for use in entertainment and communications systems to control streaming media servers. The protocol is used for establishing and controlling media sessions between end points.

Network

TCP/IP Port WIFI 3G FTP PPPoE SMTP UPnP **RTSP** ID Register

Multicast Settings

RTSP audio transmission: ☐

Enable Multicast: ☐

Multicast address: [224.0.0.1~239.255.255.254]

Port: [10000..50000]

2.3.10 ID Register

Enable register: Click the checkbox to enable it.

Server IP: the DNS server IP.

Server Port: 9700 in default. Please make changes in DNS server if needed.

Device ID: it should be a combination of letters and numbers in the format of “a.b.c”. with Min. 1 letter.

Network

TCP/IP Port WIFI 3G FTP PPPoE SMTP UPnP RTSP **ID Register**

Enable register: ☐

Server IP:

Server Port: [1..65535]

Device ID: [a.b.c]

2.4 Audio & Video

There are 6 tabs: Audio, Video Stream, Image Settings, Privacy Mask, Video Shield and Motion Detection.

• Basic Settings
• System
• Network
• **Video & Audio**
• Storage
• Event
• Safety
• Log

Video & Audio

Audio Video Stream Image Settings Privacy Mask Video Shield Motion Detection

Note: Audio input is auto default settings

• **Audio Parameters**

Audio codec format:

Audio Input:

2.4.1 Audio

Please refer to 2.1.5 for details.

2.4.2 Video Stream

Please refer to 2.1.6 for details.

2.4.3 Image Setting

Saturation: 0-100 configurable

Brightness: 0-100 configurable
Sharpness: 0-100 configurable
Contrast: 0-100 configurable
White Balance: Auto/Outdoor/Indoor/Sunlight Lamp
Day&Night mode: Auto/Color/B&W
Exposure Settings:
Video Standard: 50HZ (for PAL format), 60HZ (for NTSC format)
Select the checkbox of Enable Auto Iris to enable auto iris function.
Click Live Preview to check the image.

Video & Audio

Audio

Video Stream

Image Settings

Privacy Mask

Video Shield

Motion Detection

• Image Settings

Saturation: 50 [0..100]

Brightness: 50 [0..100]

Sharpness: 50 [0..100]

Contrast: 50 [0..100]

• White Balance

White Balance:

• Day&Night Mode

Day&Night Mode:

• Exposure Settings

Video Standard:

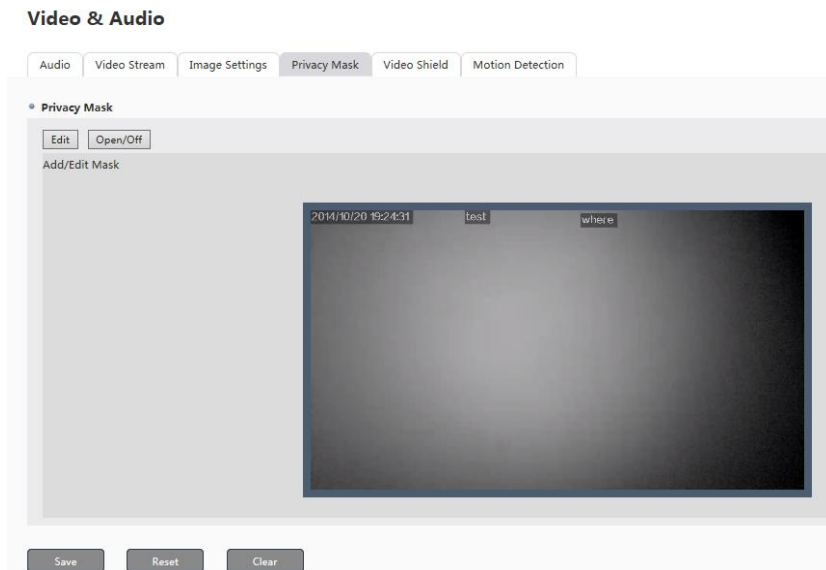
☐ Enable Auto Iris

• Image Settings

Save para and preview

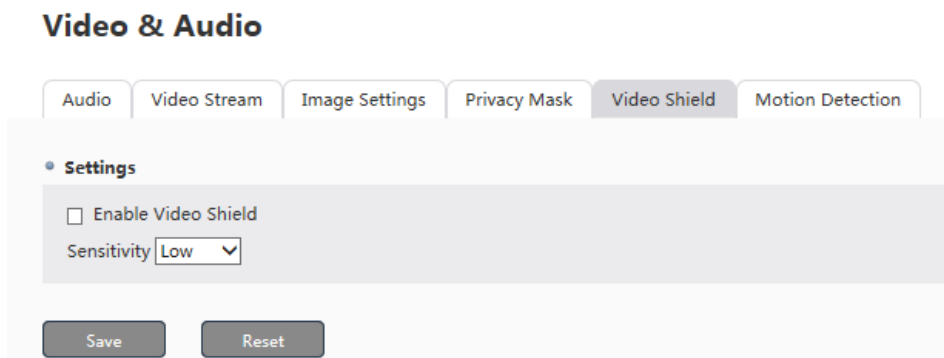
2.4.4 Privacy Mask

Max. 4 privacy zones are supported. Click Edit, draw zones by mouse and then save the zones. Click Clear to cancel all existing zones. Open/off button is for enable/disable the privacy mask function.



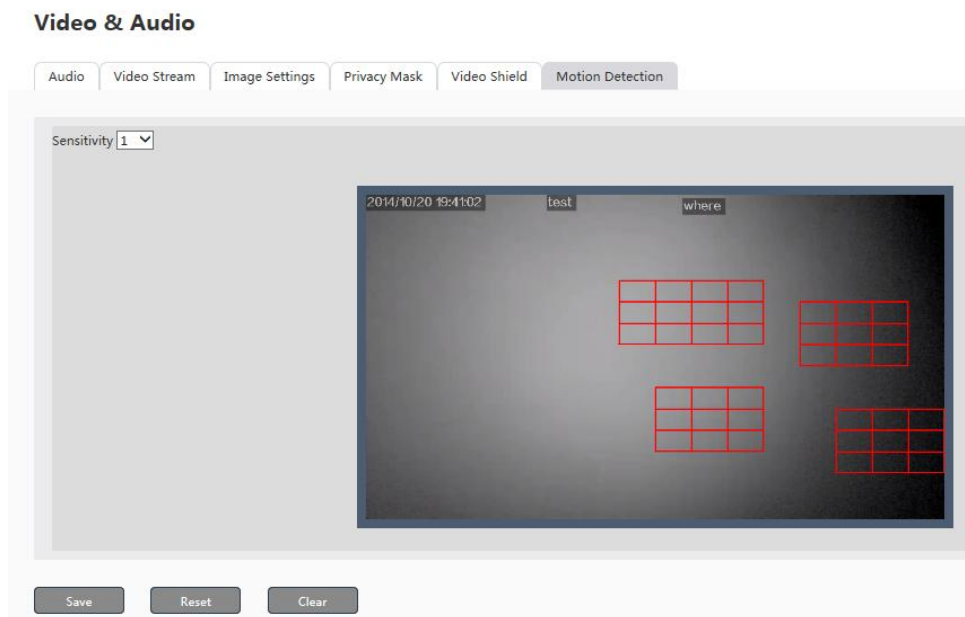
2.4.5 Video Shield

When the cameras are shielded by unidentified object, alarm info will be output if video shield function is enabled.



2.4.5 Motion Detection

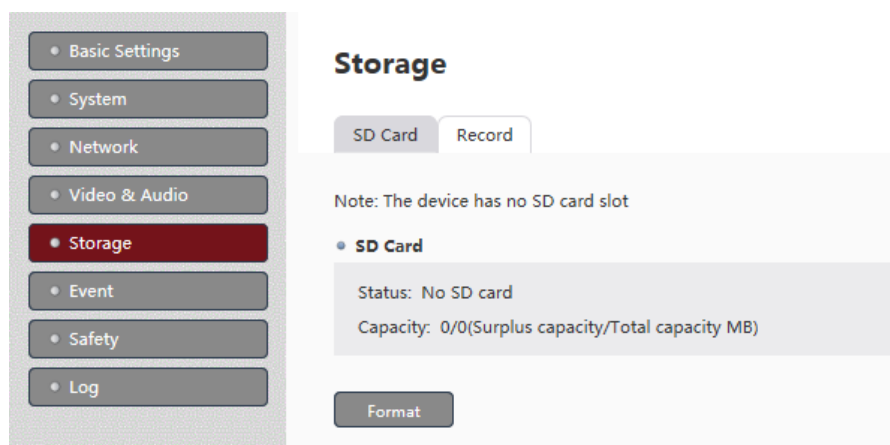
To enable motion detection alarm, please draw zones (max. 4) by mouse and save them. Click clear to delete existing detection zones. You can change its Sensitivity. 10 is the highest and 1 is the lowest.



2.5 Storage

2.5.1 SD Card

SD card status and capacity will show here. Please format the SD card the first time you use it. This function only works when the camera has SD card slot.



2.5.2 Record

Pre-record: 0-3 sec.

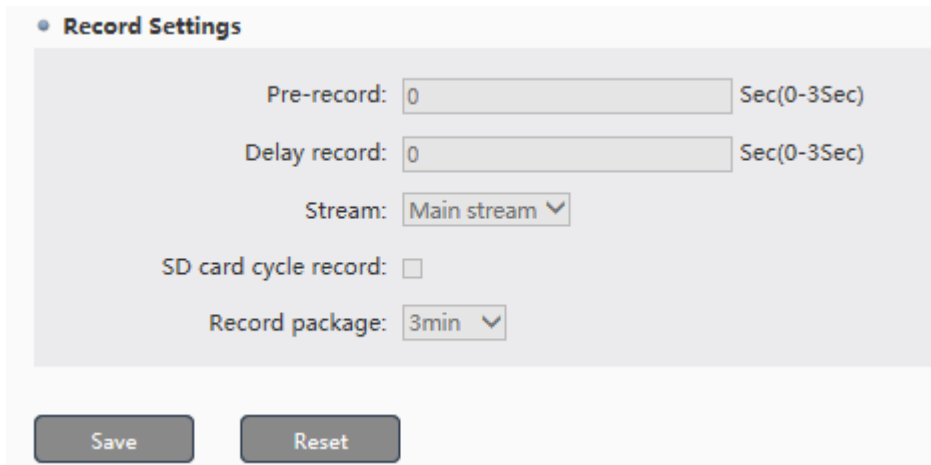
Delay-record: 0-3 sec.

Recording stream: main stream or sub stream.

SD card cycle record: while surplus capacity is lower than 256M, the camera will delete the earliest video until it exceeds 1G.

Record package: video can be stored as a package every 3 minutes, 5 minutes, or 10

minutes.

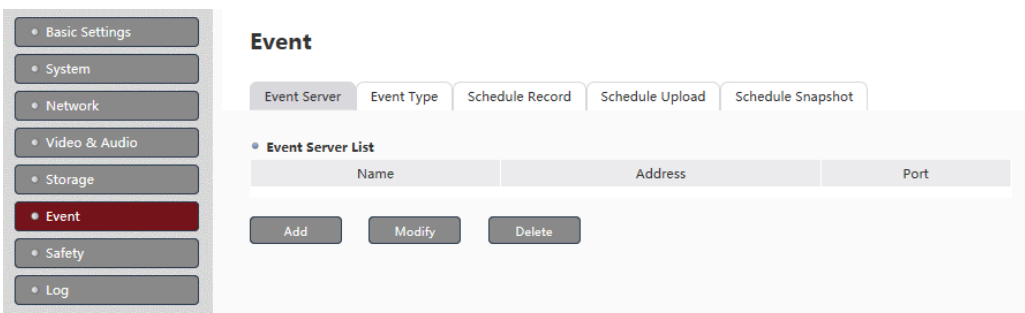


The 'Record Settings' interface contains the following elements:

- Pre-record:** A text input field with the value '0' and a unit label 'Sec(0-3Sec)'.
- Delay record:** A text input field with the value '0' and a unit label 'Sec(0-3Sec)'.
- Stream:** A dropdown menu currently showing 'Main stream'.
- SD card cycle record:** An unchecked checkbox.
- Record package:** A dropdown menu currently showing '3min'.
- Buttons:** 'Save' and 'Reset' buttons at the bottom.

2.6 Event

2.6.1 Event Server



The 'Event' configuration interface includes a sidebar menu and a main content area:

- Sidebar Menu:** Contains links for Basic Settings, System, Network, Video & Audio, Storage, **Event** (highlighted), Safety, and Log.
- Main Content Area:**
 - Event** header with sub-tabs: Event Server, Event Type, Schedule Record, Schedule Upload, and Schedule Snapshot.
 - Event Server List:** A table with columns for Name, Address, and Port.
 - Buttons:** 'Add', 'Modify', and 'Delete' buttons located below the table.

A

Add server: set TCP server's name, address and port. Max. 8 servers can be added.

Modify: select a server, change its address and port.

Delete: select a server, delete it from the list.

2.6.2 Event Type

There are several kinds of trigger modes: I/O Alarm, motion detection device startup, video shield, network disconnect, and infrared sensors. Different alarm schedule (7*24 hours alarm, scheduled alarm, disable) and alarm response (I/O, SD card record, Send email, Send TCP notification, FTP upload, Alarm snapshot, Audio) can be set according to different trigger mode. Min. interval of trigger event can be set as 0~300 sec.

Event

Event Server

Event Type

Schedule Record

Schedule Upload

Schedule Snapshot

• Event Type List

Trigger Mode	Enable
I/O Alarm	No
Motion Detection	No
Device Startup	No
Video Shield	No
Network Disconnect	No
Infrared Sensors	No

Modify

Trigger Type Settings

• General

Trigger Mode: I/O Alarm

Min. interval of trigger event s(Max 300s)

• Alarm Schedule

☐ 7*24 hours alarm

☐ Schedule alarm

☒ Disable

• Alarm Response Mode

☐ I/O

☐ SD card record

☐ Send email

☐ Send TCP notification

☐ FTP upload

☐ Alarm snapshot

☐ Audio

OK

Cancel

2.6.3 Schedule Record

There are 3 kinds of record plan: 7*24 hour record, schedule record and disable record. Concerning schedule record, users can set 6 segments for each day (Monday to Sunday).

Event

Event Server

Event Type

Schedule Record

Schedule Upload

Schedule Snapshot

Note: The device has no SD card slot

• Record Plan

☐ 7*24 hours Record

☐ Schedule Record

Schedule Record

☒ Disable

Save

Reset

	Segment1		Segment2		Segment3		Segment4		Segment5		Segment6	
Mon	00:00	00:00	00:00	00:00	00:00	00:00	00:00	00:00	00:00	00:00	00:00	00:00
Tue	00:00	00:00	00:00	00:00	00:00	00:00	00:00	00:00	00:00	00:00	00:00	00:00
Wed	00:00	00:00	00:00	00:00	00:00	00:00	00:00	00:00	00:00	00:00	00:00	00:00
Thu	00:00	00:00	00:00	00:00	00:00	00:00	00:00	00:00	00:00	00:00	00:00	00:00
Fri	00:00	00:00	00:00	00:00	00:00	00:00	00:00	00:00	00:00	00:00	00:00	00:00
Sat	00:00	00:00	00:00	00:00	00:00	00:00	00:00	00:00	00:00	00:00	00:00	00:00
Sun	00:00	00:00	00:00	00:00	00:00	00:00	00:00	00:00	00:00	00:00	00:00	00:00

2.6.4 Schedule Upload

There are 3 kinds of upload plan: 7*24 hour upload, schedule upload and disable upload. Concerning schedule upload, users can set 6 segments for each day (Monday to Sunday).

Event

Event Server
Event Type
Schedule Record
Schedule Upload
Schedule Snapshot

Note: The device has no SD card slot

• Schedule Upload

☐ 7*24 hours upload
☐ Schedule Upload Schedule Upload
☒ Disable

Save
Reset

	Segment1		Segment2		Segment3		Segment4		Segment5		Segment6	
Mon	00:00	00:00	00:00	00:00	00:00	00:00	00:00	00:00	00:00	00:00	00:00	00:00
Tue	00:00	00:00	00:00	00:00	00:00	00:00	00:00	00:00	00:00	00:00	00:00	00:00
Wed	00:00	00:00	00:00	00:00	00:00	00:00	00:00	00:00	00:00	00:00	00:00	00:00
Thu	00:00	00:00	00:00	00:00	00:00	00:00	00:00	00:00	00:00	00:00	00:00	00:00
Fri	00:00	00:00	00:00	00:00	00:00	00:00	00:00	00:00	00:00	00:00	00:00	00:00
Sat	00:00	00:00	00:00	00:00	00:00	00:00	00:00	00:00	00:00	00:00	00:00	00:00
Sun	00:00	00:00	00:00	00:00	00:00	00:00	00:00	00:00	00:00	00:00	00:00	00:00

2.6.5 Schedule Snapshot

There are 3 kinds of snapshot plan: 7*24 hour snapshot, schedule snapshot and disable snapshot. Concerning schedule snapshot, users can set 6 segments for each day (Monday to Sunday).

Refer to **2.1.6.3 MJPEG** for snapshot image quality, frame rate and snapshot interval, and **1.7.2 Snapshot and Record Settings** for snapshot record path, response and image type (BMP or JPEG).

Event

Event Server

Event Type

Schedule Record

Schedule Upload

Schedule Snapshot

Note: The device has no SD card slot

Schedule Snapshot

7*24 hours snapshot

Schedule Snapshot

Disable

Schedule Snapshot

Save

Reset

	Segment1		Segment2		Segment3		Segment4		Segment5		Segment6	
Mon	00:00	00:00	00:00	00:00	00:00	00:00	00:00	00:00	00:00	00:00	00:00	00:00
Tue	00:00	00:00	00:00	00:00	00:00	00:00	00:00	00:00	00:00	00:00	00:00	00:00
Wed	00:00	00:00	00:00	00:00	00:00	00:00	00:00	00:00	00:00	00:00	00:00	00:00
Thu	00:00	00:00	00:00	00:00	00:00	00:00	00:00	00:00	00:00	00:00	00:00	00:00
Fri	00:00	00:00	00:00	00:00	00:00	00:00	00:00	00:00	00:00	00:00	00:00	00:00
Sat	00:00	00:00	00:00	00:00	00:00	00:00	00:00	00:00	00:00	00:00	00:00	00:00
Sun	00:00	00:00	00:00	00:00	00:00	00:00	00:00	00:00	00:00	00:00	00:00	00:00

2.7 Safety

2.7.1 Users

Please refer to 2.1.2 for details.

2.7.2 IP Filtering

IP filtering function help us avoid access from certain IP addresses by setting Deny List. Click the checkbox of Enable IP Filtering, select Deny, and then add filtering IP addresses by defining start IP and end IP.

Besides, IP filtering function help us allow access only from certain IP addresses by setting Allow List. Click the checkbox of Enable IP Filtering, select Allow and then add filtering IP addresses by defining start IP and end IP.

Basic Settings

System

Network

Video & Audio

Storage

Event

Safety

Log

Safety

UserIP Filtering

General

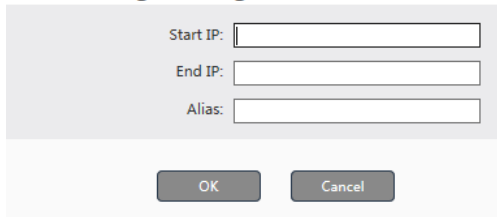
Enable IP Filtering

Deny

Filtering IP

Alias	Start IP	End IP
Add	Modify	Delete

IP Filtering Settings



Start IP:

End IP:

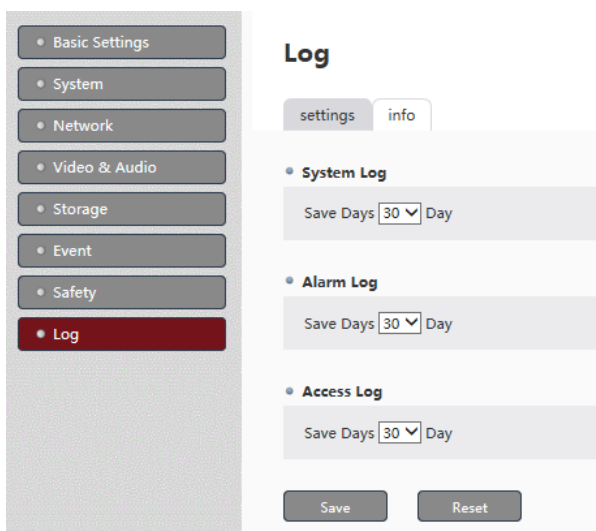
Alias:

OK Cancel

2.8 Log

2.8.1 Log Settings

Users can set saving days (10/20/30/40/50/60) for system log, alarm log and access log.



Log

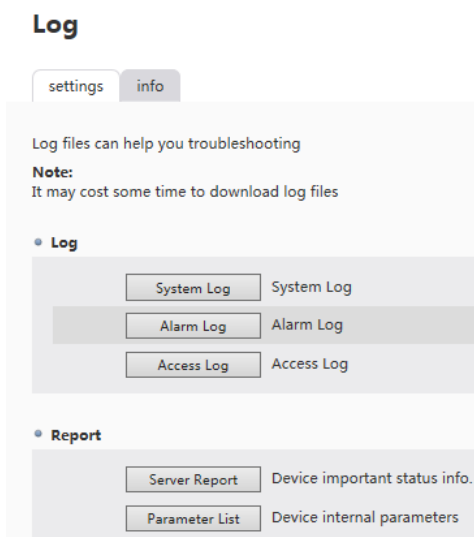
settings info

- System Log**
Save Days Day
- Alarm Log**
Save Days Day
- Access Log**
Save Days Day

Save Reset

2.8.2 Log Info

Log files can help you troubleshooting. Download relative log files you need. Please note that it may take some time to download log files.



Log

settings info

Log files can help you troubleshooting

Note:
It may cost some time to download log files

- Log**
 - System Log System Log
 - Alarm Log Alarm Log
 - Access Log Access Log
- Report**
 - Server Report Device important status info.
 - Parameter List Device internal parameters