

M1080W

Outdoor Wireless IP Camera

User Manual

Statement

If after consulting the user manual you cannot solve the problem, please call our support center about the solutions. We reserve the right to update the manual content without notice.

Notice

1. Installation Environment

- Keep away from high temperatures and extreme heat sources.
- Avoid using in very hot and very cold environments, the reference range for operational temperatures is -20°c ~ +50°c or -4°f ~ 122°f
- Please install horizontally or on wall mounting, avoid vibrating locations.

2. Transport and Handling

- The package is well-designed to ensure camera safety during the delivery, so please do not change the packaging.
- Do not move the IP cameras from overheated to supercooled conditions frequently, otherwise it will frost and shorten the service life.
- Do not move the item when is power on, otherwise the main board might be damaged.



Notice:

- 1. Please check the power supply before it is used.
- 2. Do not allow the camera to be submerged in liquid.
- 3. Be careful not to drop the camera or subject it to strong impacts or shocks.
- 4. Do not directly touch the optical components for the image sensor, if necessary, please use a clean cotton cloth with alcohol and wipe the dirt gently;
- 5. Do not aim the camera directly into the sun or at other intense light sources that could affect the image quality or shorten the service life of the image sensor.
- 6. Keep away from laser when in use, the image sensor can be damaged.
- 7. If the camera is not working properly, please contact the customer service center. Do not disassemble or modify the equipment in any way. (Problems caused by unauthorized modification or repair should be at your own risk.)

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1 Product introduction

1.1 Product summary

Thank you for choosing the Avacom M1080W IP camera. The M1080W combines a high quality digital video camera with wireless/wired network connectivity and a powerful web server to bring clear video to your desktop, laptop or smart phone from anywhere on your local network or over the Internet. It is suitable for house, apartment, shops, office buildings, etc.

Main features:

- ◆ The video is compressed by MJPEG. There are three video resolutions available. VGA/QVGA/QQVGA.
- Infrared LED for night vision covers 65 feet area allowing 24 hours monitoring;
- ◆ Support IEEE 802.11b/g/n protocol.
- ♦ Support motion detection, alarm information sent by email and/or FTP.
- Support mobile phone viewing.
- Built-in web server with graphical user interface.
- ♦ Includes DDNS. When the IP Camera is connected to the internet this URL can be used to visit the device.
- ♦ Camera supports multi-view, extended recording, video playback etc.
- Manufacturer provides free mobile phone software.

1.2 Included in the box

Accessory Type	Power adaptor	CD	Cable	Bracket	Antenna
Outdoor IP Camera	5V	√	√	\	7

Note:

Please check carefully that all listed items are included in the package. If anything is missing, please contact customer support.

1.3 Front & Side View



2 Installation Guide

2.1 Wired connection to LAN

Plug in the 5V power supply and connect the camera to wireless router Ethernet port with the network cable. Connect your computer to the same router via cable or wireless, as shown in Figure 1.

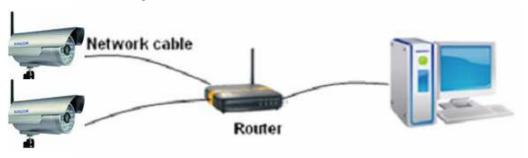


Figure 1

2.2 Logging into the Camera

Insert CD into computer CD-ROM driver or visit www.avacomtech.com to find "M10 Search_en.exe", double click "M10 Search_en.exe".

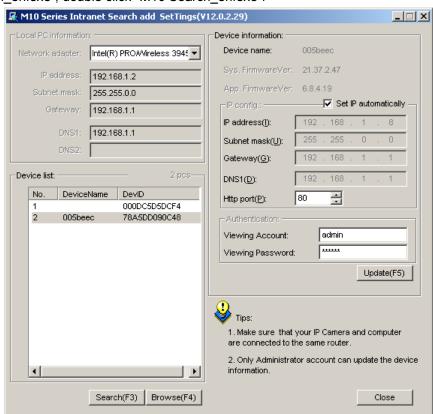


Figure 2

- 1) Click 'Search (F3)';
- 2) Choose the camera then click "Browse (F4)". Then you can run the web browser, enter user name and password and login to the IP camera to view the video.

If the camera and the router are not in the same sub-net, you need to setup the IP address manually:

- 3) Enable "set IP automatically" or change the IP address manually. Http port should be a number between 80~65535;
- 4) Enter user name and password for the device, the default is "admin" and "123456";
- 5) Click 'update';
- 6) After updating successfully, click "Search (F3)", choose the device again and click "Browse (F4)". Then you can run the web browser, enter user name and password and login to the IP camera to view the video, example see figure 3.

Note:

- 1) Please check carefully the "Local PC information" in top left corner of the interface, if the computer has several network cards, please select the one you are using.
- 2) If you installed firewall software in your PC, when you run the M10 Search_en.exe, it may pop up a window to say "whether you want to block this program or not", then you should choose not to block.



Figure 3

We suggest using IE browser to view the video (it can provide more functions), but user needs to install video player before viewing the video. Click "download and install player (first use)" link, it will popup a dialogue box as Figure 4, click Run, it will download player and install automatically.



Figure 4

Note:

 You can hold on reset button on the bottom of the camera for 10 seconds to restore factory default if you forget user name and password, during the restart process, don't disconnect the power, otherwise the camera maybe damaged;

2.3 WIFI connection to LAN

After logging into the camera with a wired connection you can enter the WiFi settings.



Figure 5

- 1. Click 'Network', then click 'Wireless Settings'
- 2. Click 'Scan' button
- 3. Click your Wi-Fi hotspot SSID
- 4. Click 'Using Wireless Lan'
- 5. Input your Share Key
- 6. Click "Submit" button, the device will start rebooting
- 7. While rebooting, unplug the Ethernet cable,

Tip: Router may assign a different IP address for Ethernet cable or Wi-Fi connection

8. Use the IP Camera Search Tool to search for the camera, highlight the Device name, and click 'Browse'.

Note: When the device is connected to both WIFI and cable, it will connect to the wired network.

2.4 Connection to WAN

To view the camera from internet, you must configure port forwarding on your router.

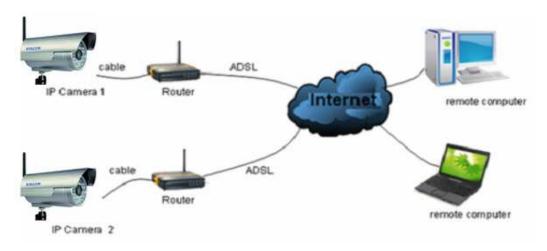


Figure 6

An example of port forwarding.



Figure 7

Steps:

- 1) After logging in to the router, go to "Port Forwarding"
- 2) Choose "Add custom Service"
- 3) Input the camera's http port
- Input the IP address of the camera and click "Apply"
- After finishing the port forwarding, you can use WAN IP address of router and the http port of the camera to view the camera with a remote device as seen in figure 6.

Note: Routers manufacturers may have a different user interface and method of configuring port forwarding. Please refer to the user manual of your router.

3 Operation of IE browser

3.1 View video

After installing the plug-ins, click "Mode 1 to view" link in Figure 3 to view the video (Figure 8).

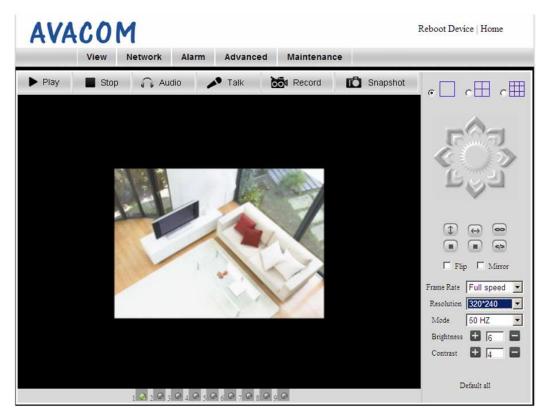


Figure 8 View video

1) Main Menu

2) Status Displaying Area

Indicates the status for 9 devices:

- if unconnected, button is gray
- if connected, button is green
- ◆ If connected wrong, button is yellow
- If alarm , button is red

3) Multi Channel displaying area

If users added multi channel (refer to 3.4.2), when changed to 4-Ch, 9-CH, it will show other devices automatically.

If you select one device, you can operate it with these buttons:



These buttons mean play video, stop video, monitor, talk, record and snapshot. You can click these buttons to start corresponding function.

Note:



2, If you want to click this button to record the video, please go to Advanced—Other Settings to set the Record Path first.

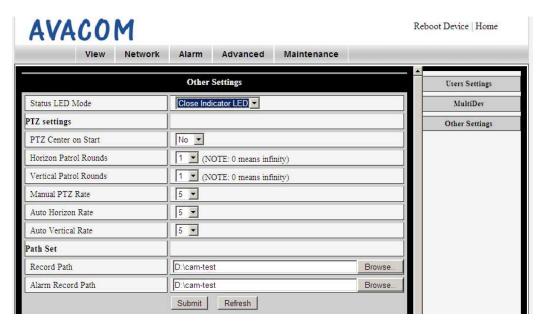


Figure 9 Other settings

3.2 Network Settings

3.2.1 IP address settings

Click on 'Network' to enter the basic network settings. To set a static IP address unclick 'Obtain IP automatically and enter desired IP address and port number.

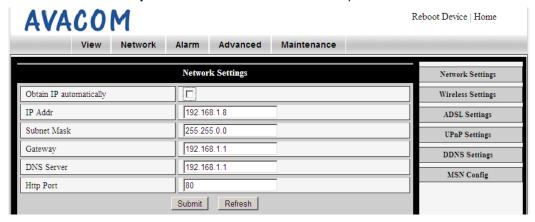


Figure 10 Network settings

3.2.2 Wireless settings

Please refer to chapter 2.3.

3.2.3 ADSL settings

Enable the ADSL Dialup by clicking on 'Using ADSL Dialup'. Your ADSL provider will assign the user name and password to you when you apply for ADSL service. Connect the device directly to the ADSL modem and it is connected to the Internet.

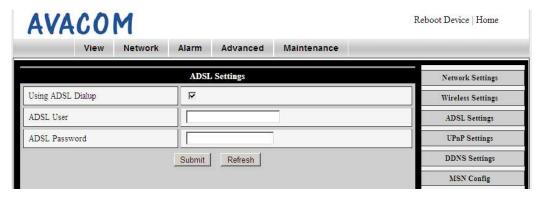


Figure 11 ADSL settings

3.2.4 UPnP setting

UPnP means Universal Plug and Play, if you enable UPnP, once the IP camera is connected into the LAN, it will communicate with the router on the LAN and do port-forwarding through the open port of the router automatically. To enable simply click "Using UPnP to Map Port" to finish the setting. You can check if the UPnP is successful in Maintain – Device Info.



Figure 12 UPnP settings

Before using the UPnP function, please make sure the router's UPnP function has been enabled. Not all the routers support UPnP. Please test to see if the router works well with the camera, if not, we suggest you to disable this function and do the port-forwarding manually.

3.2.5 DDNS Setting

If UPnP or port forwarding is successful, and you can visit the camera via the WAN IP address you also can visit it via DDNS.

Manufacturer's DDNS

If the Manufacturer puts a DDNS label on the bottom of the IP Camera, and the manufacturer has established a DDNS system, and allotted a DDNS to every device, the user only needs to enter the domain name into browser, and then view it from a remote device..



Figure 13 Manufacturer's DDNS

Third Party DDNS

User can also use third party DDNS, such as www.dyndns.com, User must apply to get a free domain name from this website and fill the info into the fields below and save the settings. Then the domain name can be used.



Figure 14 Third Party DDNS setting

Note: Using the third party domain name, if the http port is not 80, the port number should be adding to the domain name with colon. Example: http://btest.dyndns.biz:81.

3.3 Alarm Settings

3.3.1 Alarm Settings



Figure 16 Alarm settings

1) Events

- With Motion Detection armed if there is any motion, it will trigger an alarm. For motion detect sensitivity, the larger the value, the more sensitivity.
- Note: I/O Input, Audio Detection features do not work on the M1080W.

2) Notifications

After triggering an alarm, you can adopt several alarm modes:

- Send Mail on Alarm: The camera will send alarm info by email to a configured email address.
- Upload Image to FTP: The camera will send alarm pictures to the configured FTP server, user can also set the interval time between two pictures;
- Warning sound on View: When the camera detects an alarm, you will hear an audible beep when viewing the camera beeps from the computer;
- Local Record on View: Once the camera detects an alarm, it will start recording and store the video in the configured folder on the computer.

3) Scheduler

The camera will only trigger alarms during a scheduled interval. The camera can be scheduled to trigger alarms "All time". It will then alarm when any motion or sound is detected. It can also be configured to alarm only during configured intervals. To set a 15 minute interval click on it. To set an hour double click on it Before you set "Schedule",

please go to Date and Time settings to set the correct time and date.

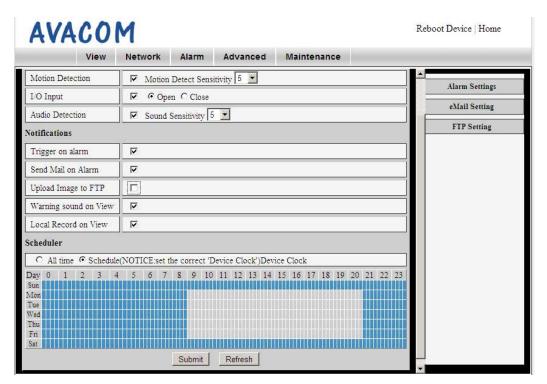


Figure 17 Schedule interface

3.3.2 Mail Service Settings

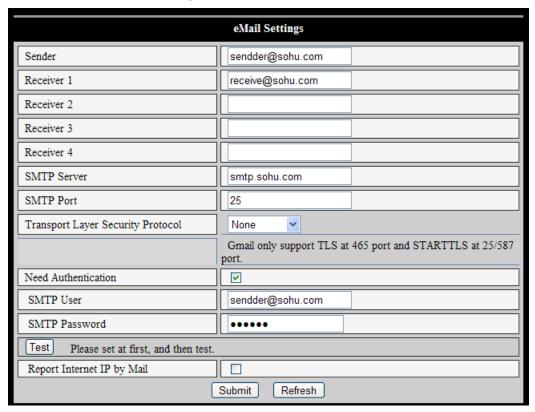


Figure 18 Mail service settings

When the camera enters the alarmed state, it can send an email to your preconfigured email address. The sender needs to support SMTP. You can get the supported SMTP port from your email service provider. After configuring, click "Submit" to save these parameters, and then you can click "Test" to check if the settings are successful.

When you have set the email service parameters correctly, you can click "enable "Report Internet IP by mail". After every restart, the device will send its Internet IP address to the configured email address. You can use the IP address to visit the device if it was mapped to the internet.

3.3.3 FTP Service Settings

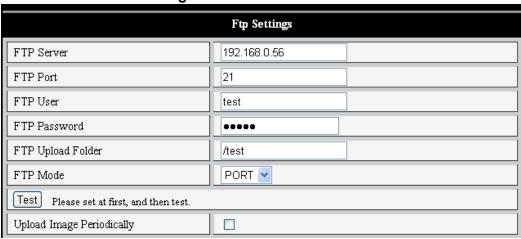


Figure 19 FTP service settings

When configured and in the alarmed state, the camera will snap and send an image to the configured FTP server. After configuring, click "Submit" to save these parameters, and then you can click "Test" to check if the settings are successful.

Note: For using the FTP function, you need to configure a user with authority to write to and create submenus on the FTP server.

After correctly setting the FTP server, you can use the "upload Image Periodically" function. The device will send image to FTP server in preconfigured interval. A file name can be specifies and each subsequent image will overwrite the previously saved Image.

3.4 Advanced

3.4.1 User Settings

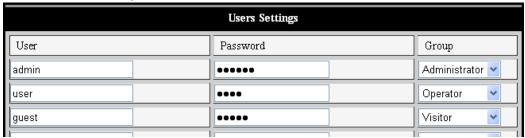


Figure 20 User settings

Users can be configured with three permission levels. Administrator has rights to all configuration and viewing features. The operator has rights to the PT settings and viewing features. The visitor only has the ability to use the viewing features. At least one administrator should be configured at all times.

3.4.2 Multi-Device Settings

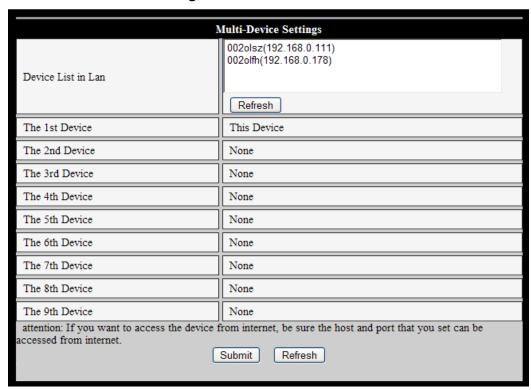


Figure 21 Multi-device settings

The Multi-device feature allows the monitoring of up to 9 devices simultaneously. Click the "refresh" button to locate the devices on the LAN. Then click a device, and the setting dialogue box will open. Click on the desired device in the LAN list and its info, (as in Figure 22) will be added. Configure user and password and click "save" to add the device. Repeat for additional cameras. After that, must click "Submit" button in figure 21 to save all added devices.



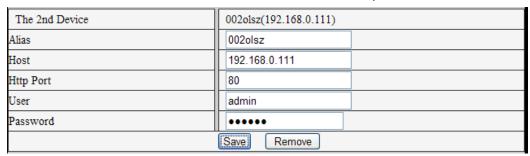


Figure 22 Add device

Note: Multi-device settings and viewing features are only available in Mode 1 viewing browser types (Internet Explorer).

3.4.3 Other settings



Figure 23 Other settings

The Record and Alarm Record path are the locations configured to store videos recorded by the camera.

Note: Status LED Mode feature does not work on the M1080W.

3.5 Maintenance

3.5.1 Device Information

Device Info		
Device Name	002oifh	
Device Firmware Version	21.37.2.43	
Device Embeded Web UI Version	0.0.4.19	
MAC	78:A5:DD:04:B8:72	
Alarm Status	None	
Third Party DDNS Status	No Action	
UPnP Status	No Action	
MSN Status	No Action	
	Refresh	

Figure 24 Device information

Device Name: The Alias of the camera

Device Firmware Version: The system firmware version residing on the camera

Device Embeded Web UI Version: The Web UI firmware version residing on the

camera

MAC: The MAC address of the Ethernet port of the camera

Alarm Status: The alarm state of the camera

Third Party DDNS Status: The communication status with the DDNS server **UPnP Status:** The communication status with the UPnP port of the router

MSN Status: The communication status with the MSN server

3.5.2 Alias Settings



Figure 25 Alias settings

The Alias can be used to define a unique identifier for your camera.

Type in a name for the camera to help differentiate it when logged in or to identify it on the search tool list.

3.5.3 Date &Time Settings

If the device is connected to the Internet, you can enable the NTP server to correct the time and to select the correct time zone. Otherwise you can use the PC's time. This time is used for timestamps on videos and snapshots.

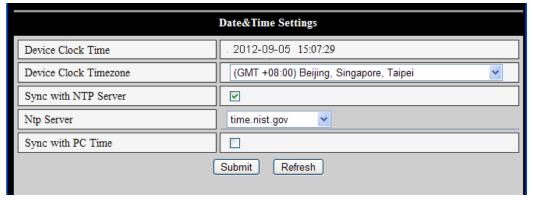


Figure 26 Date and time settings

3.5.4 Upgrade Firmware

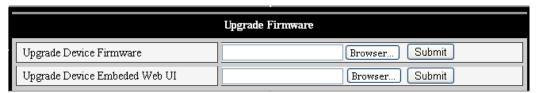


Figure 27 Upgrade firmware

The camera runs two kinds of firmware, one is System firmware, and the other is Web UI firmware. They can be upgraded when necessary.

3.5.5 Factory Settings

Clicking "Factory Settings", will open up a dialogue box to confirm if you really want to restore the camera to factory defaults. After confirmation, the system will restore the factory default settings and reboot.

3.5.6 Log

Viewing the log will show when and by what device has accessed the camera.

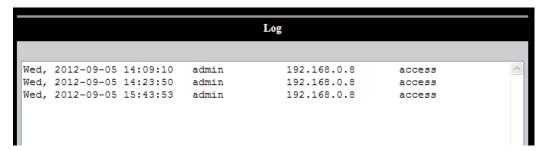


Figure 28 Log

4 Operation of other software

4.1 Other web browsers

You can view the camera with Firefox, Safari, Chrome, Opera browser etc., All that is required is to select "Mode 2 to view" when using these browser (See Figure 3).

You can use "Mac search tool" on the CD to search the camera and set IP address of camera in Mac computer. Because the camera supports bonjour protocol, so you can view the camera in LAN and visit it directly with the Safari browser.

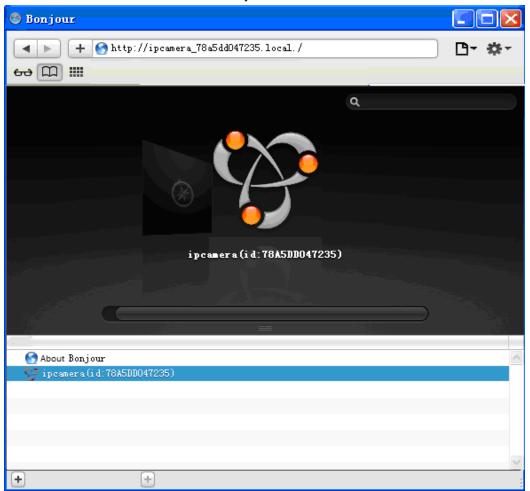


Figure 29

4.2 Mobile phone software

For more information, please see the user manual for mobile phone in attached CD, or download the latest software and user manual in our website.

4.3 Centralization Control

IPCMonitor is a free software release with which several devices on LAN and WAN can be viewed at the same time. The software also supports snapshot, video record, alarming, etc.

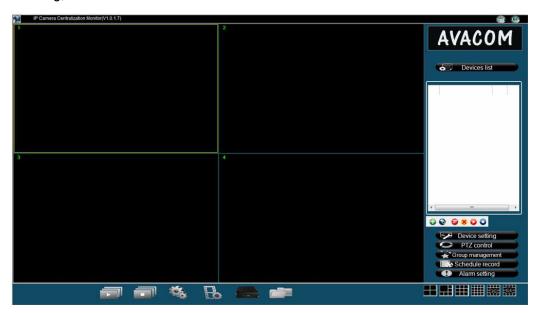


Figure 30

For more information, please refer to the "IPCMonitor User Manual" in CD.

4.4 Other software

You can use the VLC software etc to play video using the following URL format: http://IP address:port/videostream.asf?user=user name&pwd=password http://IP address:port/videostream.cgi?user=user name&pwd=password For example:

http://192.168.1.178/videostream.asf?user=admin&pwd=123456

5 Specifications

Item	Sub-Item	Description
lmaga	Sensor	CMOS sensor ,300K pixels, with IR-CUT filter
Image	Lens	f=4mm, F=2.0, Fixed Iris
Capture	Min ambient light	0.5Lux(IR off), 0Lux(IR on)
Illumination	Control Mode	Day/Night auto switch
illullillation	Source	36pcs 850nm Infrared LEDs, up to 65 feet
	Resolution	640*480(VGA) / 320*240(QVGA) / 160*120(QQVGA)
	Compression	MJPEG
Video/Audio	Frame Rate	15fps(VGA), 30fps(QVGA),30fps(QQVGA)
	Bit Rate	128kbps ~ 5Mbps
	Image Rotation	Mirror /Flip
	Network Protocol	TCP/IP, UDP/IP, HTTP, SMTP, FTP, DHCP, DDNS,
Network		UPNP, NTP, PPPOE
	Wireless Protocol	IEEE 802.11b/g/n, WEP & WPA/WPA2 Encryption
	Video control	Frame Rate/Resolution/Mode/Brightness/Contrast
	Motion Detection	Supports
Other	Alarm Actions	Email/FTP/External IO
Features	User Permissions	Three levels
reatures	Date/ Time Setting	Supports
	Upgrading	Firmware upgrading from network
	DDNS	Free DDNS account provided by manufacturer
	Ethernet	10Base-T/100base-TX
Interface	Reset	Hardware reset button
	RF	SMA
Physical	Net Weight	18 oz
Filysical	Dimension	7.3 inch(L)*3 inch(W)*3.2 inch(H)
	Power Supply	5VDC , with 100~240VAC adapter
	Power consumption	<6W
Operation	Temperature	-4°F~122°F
	Humidity	10% ~ 95% non-condensing
	Protective class	IP66
Certification	Certification	FCC, CE, RoHS

6 Frequently Asked Questions

6.1 Why won't my camera connect to my wireless router?

Answer:

The camera needs to be connected to the router via Ethernet cable for the first use, at which time you setup the WiFi SSID and password correctly.

There are some other cases that may cause the camera not to connect wirelessly:

- 1. The wireless router is not working in 2.4G 802.11 b/g/n mode.
- 2. The antenna is not connected to camera or may not be connected correctly.
- 3. Wireless signal strength is too low.

6.2 Why do I see a black screen when using Internet Explorer?

Answer:

ActiveX Control Module should be installed for Internet Explorer browser.

- 1. Make sure to install the ActiveX Control Module when prompted at the first login attempt.
- 2. Check if the firewall or anti-virus software blocks ActiveX controls.
- 3. Check that you chose the correct login mode after login. "Mode 1" for IE browser, "Mode 2" for Firefox/Safari browser, "Mobile View" for iPhone/iPad/Android.

6.3 Why is the video frame rate is very slow?

Answer:

There are several cases that may cause a low frame rate:

- 1. Multiple Users are watching live video at the same time. Where one user will see a frame that may be 15 fps@VGA, 4 users may only get 3~4 fps@VGA per user.
- 2. High package loss rate or high delay between the camera and user's computer or smartphone may cause low frame rate or black screen, use ping command or ping tool to test the network performance, the package loss should be less than 2%, and package delay should be less than 100ms.
- 3. Wireless signal strength is low and may cause high package loss or high package delay. Move the camera to a location with good signal strength or use a high gain antenna.

6.4 How can I reset the camera user name and password?

Answer:

Power on the camera first, then press the reset button (found on the bottom of the camera) for about 30 seconds and then release it, after that, the camera will revert to the default user name and password. The default user is "admin", the password is "123456".