Indoor Wireless/Wired HD P2P Network Camera (with H.264 image compression)
Model XX59A
User Manual
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1. INTRODUCTION

It is recommended that you first read the Quick Setup Guide. This shows you how to set up your camera using Peer to Peer (P2P). This setup method is extremely fast and easy, and will get you set up in a matter of minutes. You can then refer to this Owner’s Manual for more advanced features.

IMPORTANT NOTICE

The various screens throughout this owner’s manual will look different depending on the browser you use. Full functionality is available when using Internet Explorer (IE) with ActiveX (OCX) installed. Limited functionality is available with other browsers, such as Safari, Chrome, and Firefox.

Please Read this manual carefully, according to the browser you are using.

This is an integrated wireless IP Camera solution. It combines a high quality digital Video Camera with network connectivity and a powerful web server to bring clear pictures to your Desktop from anywhere on your local network or over the Internet.

The main function of the camera is to transmit remote video over IP network. The high quality video image can be transmitted with 30fps speed on the LAN/WAN by using H.264, MJPEG compression technology.

It is based on the TCP/IP standard, build-in WEB server which supports Internet Explorer. Therefore the management and maintenance of your camera becomes simple by using the network to achieve the remote configuration, start-up and to upgrade firmware.
You can use your IP Camera to monitor your home or your office. Also, controlling and managing images are simple by visiting the web site.
1.1 Features

☆ Powerful high-speed video protocol processor
☆ High-sensitivity 1/4” CMOS sensor
☆ Picture total 1000K pixels (1 megapixel)
☆ Supports Pan and Tilt (PT) control, Pan 270°, Tilt 120°
☆ Optimized H.264 MJPEG video compression for transmission
☆ Multi-level user management and passwords definition
☆ Embedded Web Server for users to visit by IE
☆ Supports wireless network (WI-FI/802.11/b/g/n)
☆ Supports Dynamic IP (DDNS) and UPNP LAN and Internet (ADSL, Cable Modem)
☆ Gives an alarm in case of motion detection
☆ Supports image snapshot
☆ Supports multiple protocols: TCP/IP HTTP DNS DHCP PPPoE SMTP FTP SSL TFTP NTP ARP/RARP NFS RTSP RTP RTCP.
☆ Supports WEP/WPA/WPA2 encryption
☆ Supports IE, Firefox, Safari, and Google chrome browsers

1.2 Packing List

● IP Camera
● Wi-Fi Antenna
● User Manual & Quick Setup Guide
● DC Power Supply
● CD
● Network Cable
● Mounting bracket
1.3 Product Views

1.3.1 Rear View

Note QR code label for easy P2P setup. (See Quick Setup Guide).

1.3.2 Bottom View
1.4 PC System Requirements

System configuration requirements:
CPU: 2.06 GHZ or above.
Memory: 256M or above.
Network Card: 10M or above.
Display Card: 64M or above memory.

1.5 Hardware Installation

Follow the steps below to set up your camera hardware.

1. Install the Wi-Fi antenna.
2. Plug the power adaptor into the camera and into an AC outlet.
3. Plug the network cable into the camera and router/switch.

4. It takes approx 30 seconds to boot up the camera, then you will find the IP address from Search IP Cam Tool (Figure 1.5).
5. When the power is on and the network cable is connected, the green LED on the rear panel will stay on. The yellow LED will keep flashing, and the Indicator LED on the front of the camera will flash. (The indicator LED can be controlled by software).
2. INSTALLATION AND SETTINGS

System Requirement:
Operating System: Windows 2000 / XP / Vista / 7 / 8
Network Protocol: TCP/IP
Network Structure: Applies to all network connections 10/100M LAN platform
Browser: Internet Explorer 6.0 or above. Firefox, Google, Safari, or Chrome.

2.1 Network Connection

Intranet and Extranet Connection Reference:
Extranet means public IP (i.e. The Internet), Intranet means private IP. If your IP belongs to the follow range, then it’s a private IP:
Category A: 10.0.0.0 - 10.255.255.255
Category B: 172.16.0.0 - 172.31.255.255
Category C: 192.168.0.0 - 192.168.255.255

Intranet Connection: The IP camera and your computer (device) should be under the same network environment, and both of the IPs should be under the same subnet, pictured as below:

![Figure 1.0](image1.png)

Extranet Connection: there are 2 ways as below:
(1). IP camera connects to the Internet via a router, here camera’s IP is a private IP, client needs to connect to the IP camera through a router, with port forwarding to be connected correctly, as below:

![Figure 1.1](image2.png)
(2) IP camera connects to the Internet directly, if it’s a fixed IP provided by your ISP, just input it. If it’s a dynamic IP, then input the account and password provided by your ISP for broadband connection.

Figure 1.2

2.2 Browser Settings (For IE only)

OCX will be downloaded automatically when you login to the IP Camera, but you might have to set the IE browser to enable the OCX to be downloaded automatically after signing in. Steps as below:

1. Close the firewall of your computer.
2. Change the ActiveX settings, open your IE browser, select **Tools then Internet Options then Security then Custom Level** (See Figure 1.3).

Figure 1.3

Then set the **ActiveX controls and plug-ins**. Set the ActiveX options to **Enable** or **Prompt** as indicated in Figure 1.4.

Note especially:

**Prompt:** Download unsigned ActiveX controls

**Prompt:** Initialize and script ActiveX controls not marked as safe

**Enable:** Run ActiveX controls and plug-ins
Click OK and restart the browser.

You can also click the **Start** menu then **Internet Explorer**, and choose **Internet attributes**, or via **Control Panel** select **Internet Explorer** to access Security settings.

**NOTE:** Make sure that your firewall or anti-virus software doesn't block the software or ActiveX. If you couldn’t see live video, please close your firewall or anti-virus software, and try again.

### 2.3 UPnP Service

UPnP could help you to find your camera’s IP more quickly. For Window XP, from Control Panel > Add or remove applications > Add or remove Windows component > Network service > Detailed data > UPnP users interface, the factory default settings is disabled. Enable it, then it can allow your operating system to support UPnP.

You can also click the **Start** menu then **Internet Explorer**, and choose **Internet attributes**, or via **Control Panel** select **Internet Explorer** to access Security settings.
2.4 SearchIPCam IP Address Search Tool (shown for IE browser below)

Step 1: Use tool SearchIPCam.exe to find IP address of LAN.

![Figure 1.5](image)

Step 2: Double click Search IPCam on your desktop, the camera’s IP & MAC address will be displayed. If you want to search again, click Search.

![Figure 1.6](image)

Step 3: Double-click the IP address of your camera to enter the login interface.
2.5 Install the OCX ActiveX (For IE only)

Install the OCX ActiveX for the first time login; click the icon on the right bottom, Download the OCX file, then double click to install it automatically. After OCX installed fully, then input the user name and password to login the camera.

2.5.1 For other Browsers, e.g., Safari, Firefox, Chrome, there is no need to install the ActiveX control, see below:

The default IP address for each camera is 192.168.1.155. You can run the browser, and input the IP address directly into your browser to login to the camera.

**NOTE:** If the IP address of the computer is different from the camera you should change the IP address of the computer to the same as the camera. Connect the IP Camera to the computer via network cable. To change the address right-click on the camera listed in the Search IP Cam program and select **Network Configuration** then make sure **DHCP** is checked and click OK. The camera will reboot and show a new IP address different from that of the default. Then double-click the camera, and the login screen below will pop-up:
3. SOFTWARE OPERATION

1 Software operation for IE Browser

Choose your desired language, input correct user name and password, then click Login

**User name:** admin **Password:** leave blank, i.e. no password.

![Figure 1.9](image1)

Choose languages here

- **Mobile Phone** For mobile phone login
- **Load OCX** For OCX installation (IE only)
- **Login** Click to login the IE interface as below:

![Figure 2.0](image2)
2 Software Operation For Chrome, Firefox, Safari:

Choose the suitable language, input correct user name and password, then click **Login**

**User name**: admin  **Password**: leave blank, i.e. no password.

![Login interface](image)

Figure 2.1

Choose the login mode.

**QuickTime**: Choose QuickTime, login to the camera directly. if there is prompt for installing the QuickTime player, just download and install it.

**Sever Push**: For Firefox, Chrome, or Safari browser.

**VLC**: If you use VLC, should download the VLC player first.

During the VLC installation, you must enable Mozilla plug-in as the picture shows below:

![VLC media player setup](image)

Figure 2.2
3.1 Functions

3.1.1 Three main functions (For IE):

- **Live video**: Click it, back to live video window from Playback or Params settings
- **Playback**: Click to query and playback the video files (Details see 5 Playback)
- **Params Settings**: Setting the camera’s parameters (Details see 4 Params settings)
3.1.2 Two main functions (For Safari, Chrome, Firefox)

![Figure 2.5](image)

**Live video:** Click it, back to live video window from Playback or Params settings

**Params Settings:** Setting the camera’s parameters (Details see 4 Params settings)

3.2 For Live Video (for IE browser)

3.2.1 TOP Menu:

![Figure 2.6](image)

**Play:** Play the live video.

**Stop:** Stop the live video.

**Listen:** Click it to enable listen function, the icon will change to green color and can hear the live audio from camera via PC if audio is ON. Click it again, will stop listen function.

**Talk:** Click it to enable talk function, the icon will change to green color and can talk between PC and camera if audio device connected. Click it again, will stop talk function.

**Capture:** Click to take snapshot, the picture be saved in the PC to its appointed path as JPG format, and pop-up the prompt as below:

![Figure 2.7](image)

**Record:** Click to start record manually, the icon will change to green color and Record file will be saved in the PC to its appointed path as AVI format. Click it again, will stop record function.
**Clear Alarm:** Click to stop the alarm manually when there is an alarm triggered, and pop-up prompt as below:

![Clear Alarm Pop-up](image)

Figure 2.8

**OSD Settings:** Click it will pop-up the OSD settings interface, including OSD Color, Frequency, Image Mirror and Flip.

![OSD Settings Interface](image)

Figure 2.9

**OSD:** Means “On-Screen Display”

**OSD Color:** Including Disabled, Black, Red, Green, Blue, Purple, Gray, Silver, Yellow, Olive, Turquoise, White, Light Blue etc.

![OSD Color Options](image)

Figure 3.0

**Frequency:** Including 50HZ, 60HZ, Outdoor.

50HZ/60HZ for the users who use 50HZ/60HZ frequency, outdoor for the users who want to use this camera to monitor an outdoor environment (through a window).

**NOTE:** The camera should only be used in an indoor environment.
Figure 3.1

Mirror and Flip

Mirror: Select this checkbox to see a mirror image. Uncheck it to go back to normal.

Flip: Select this checkbox to flip the image upside down. Uncheck it to go back to normal.

Figure 3.2

NOTE: You can choose Mirror and Flip function if you set up the camera in a special position, upside down for example.

Full Screen: Click it, shift to full screen mode, double click left mouse or click the icon on the left bottom to exit full screen mode.

3.2.2 Live Video for Safari, Chrome, Firefox:

3.2.2.1 TOP Menu For QuickTime Mode:

Capture: Click to take snapshot, the picture be saved in the PC to its appointed path as JPG format, will pop-up the snapshot, right click the picture to save it.

OSD Settings: Click it will pop-up the OSD settings interface, including OSD Color, Frequency, Image Mirror and Flip.
**OSD**: Means “On-Screen Display”

**OSD Color**: Including Disabled, Black, Red, Green, Blue, Purple, Gray, Silver, Yellow, Olive, Turquoise, White, Light Blue etc.

**Frequency**: Including 50HZ, 60HZ, Outdoor.
50HZ/60HZ for the users who use 50HZ/60HZ frequency, outdoor for the users who want to use this camera to monitor an outdoor environment (through a window).

**NOTE**: The camera should only be used in an indoor environment.

**Mirror and Flip**

**Mirror**: Select this checkbox to see a mirror image. Uncheck it to go back to normal.

**Flip**: Select this checkbox to flip the image upside down. Uncheck it to go back to normal.
NOTE: You can choose Mirror and Flip function if you set up the camera in a special position, e.g., upside down.

3.2.1.2 Top Menu For VLC Mode:

Adaptive size of the display. Click it, will get adaptive size

The true size of the display. Click it, will back to the true size.

Capture: Click to take a snapshot, the picture will be saved to your PC to its appointed path in JPG format, it will pop-up the snapshot, right click the picture to save it.

OSD Settings: Click it will pop-up the OSD settings interface, including OSD Color, Frequency, Image Mirror and Flip.
3.2.1.3 Left Side Menu For IE browser

There are some basic operation icons listed on the left side menu as below:

![Figure 3.9](image)

**PT Control:** Set Pan/Tilt as upward, downward, leftward, rightward, up-left, down-left, up-right, down-right, etc directions.

- **Center:** Click this icon, the camera will pan/tilt, then stop at the center. Normally it will rotate 1 rotation.
- **Up:** Click this icon, camera will move up, you can click one by one or hold it to control the movement.
- **Down:** Click this icon, camera will move down, click it step by step or hold on to control the movement.

**NOTE:** It is the same operation as left, right, up-left, up-right, down-left, down-right etc.

![Figure 4.0](image)

**Set Preset:** It supports 9 preset positions. First, control the camera to rotate to the special position you need to set, click **Set Preset** button, it will pop-up a dialog frame (Figure 4.0), choose any number (1-9).

**Call Preset:** It supports 9 preset positions. If you want to monitor an important area quickly and precisely, just click **Call Preset Position** button, it will pop-up a dialog frame (Figure 4.0), choose the number, then the camera will rotate to the preset position automatically.

If you want to use **Call Preset**, you have to **Set Preset** first.

**NOTE:** if you set different positions with a same number, the camera will record the last position setting only.
**Cruise:** Preset cruise, camera can cruise according to the different presets you set.

- Click this icon, the camera will rotate up and down, i.e., vertical tilt, click to stop it
- Click this icon, the camera will rotate left and right, i.e., horizontal pan, click to stop it
- Click this icon, IO output Switch ON. Click to set it OFF.

Figure 4.1

- Click this one, you can view the main channel of the camera you login to, move the mouse to the icon, the frame will change to red color.
- Click this one; you can view 4 Channels of cameras that are connected, from CH1 to CH4. Move the mouse to the icon, the frame will change to red color.
- Click this one; you can view 9 Channels of cameras that are connected, from CH1 to CH9. Move the mouse to the icon, the frame will change to red color.

**NOTE:** If you want to view 4/9 channels, you should set the Multi-Device firstly (See section 4.13 Multi-Device Settings).

Figure 4.2

- **PTZ speed:** set value from 1 to 100, click the icon, it will change back to the factory settings.
- **Brightness:** set value from 0 to 255, click the icon, it will change back to the factory settings.
- **Contrast:** set value from 0 to 255, click the icon, it will change back to the factory settings.
- **Hue:** set value from -128 to 127, click the icon, it will change back to the factory settings.
- **Saturation:** set value from 0 to 200, click the icon, it will change back to the factory settings.
There are 9 icons at the bottom of the user interface which show the status of each channel of the camera.

- **Gray color**: means there is no device connected to the main device from this channel.
- **Green color**: means the device is connected for this channel, and it works OK.
- **Red color**: means the device for this channel is recording.
- **Yellow color**: means this channel is set in multi-device already, but it fails to connect to the main device.

### 3.2.1.4 Left Side Menu for Safari, Chrome, Firefox:

There are some basic operation icons listed on the left side menu as below:

- **PT Control**: Set Pan/Tilt as upward, downward, leftward, rightward, up-left, down-left, up-right, down-right, etc.
- **Center**: Click this icon, the camera will pan/tilt, then stop at the center. Normally it will rotate 1 rotation.
- **Up**: Click this icon, camera will move up, you can click step by step or hold it to control the movement.
- **Down**: Click this icon, camera will move down, click it step by step or hold on to control the movement.

**NOTE**: It is the same operation as left, right, up-left, up-right, down-left, down-right etc.
**Set Preset:** It supports 9 preset positions. First, control the camera to rotate to the special position you need to set, click **Set Preset** button it will pop-up a dialog frame (Figure 4.5), choose any number (1-9).

**Call Preset:** It supports 9 preset positions. If you want to monitor an important area quickly and precisely, just click **Call Preset Position** button it will pop-up a dialog frame (Figure 4.5), choose the number, then camera will rotate to the preset position automatically.

If you want to use **Call Preset**, you have to **Set Preset** first.

**NOTE:** If you set different positions with a same number, camera will record the last position setting only.

**Cruise:** Preset cruise, camera can cruise according to the different presets you set.

- Click this icon, the camera will rotate up and down, i.e., vertical tilt, click to stop it.
- Click this icon, the camera will rotate left and right, i.e., horizontal pan, click to stop it.
- Click this icon, IO output Switch ON. Click to set it OFF.

**PTZ speed:** set value from 1 to 100, click the icon to go back to the factory settings.

**Brightness:** set value from 0 to 255, click the icon to go back to the factory settings.

**Contrast:** set value from 0 to 255, click the icon to go back to the factory settings.

**Hue:** set value from -128 to 127, click the icon to go back to the factory settings.

**Saturation:** set value from 0 to 200, click the icon, it will back to factory settings.
4. PARAMS SETTINGS

4.1 Device Info.

Click **Params Settings** icon ![icon](image) select **Device info**, it will show the basic information such as **Device ID**, **Device Client**, **Device Host**, **Description**, **IP Address**, **UPNP Status**, **DDNS Status** etc. Default device name is **IP Camera**, users can change the camera’s description here, picture as below:

4.1.2 For IE, the display will look as below:

![Figure 4.7](image)

4.1.3 For Safari, Chrome, Firefox, the display will look as below:

![Figure 4.8](image)
4.2 Video Info.

Click Video Info to enter the interface as below:

4.2.1 For IE, the display will look as below:

![Figure 4.9](image)

4.2.2 For Safari, Chrome, Firefox, the display will look as below:

![Figure 5.0](image)
There are two options for stream, **Main-Stream** and **Sub-Stream**, you can set the stream based on the actual operation environment, for example, if the bandwidth is good enough, set Main-Stream as Initial-Stream, or choose Sub-Stream if better.

Set the parameters of **Main-Stream** and **Sub-Stream** as below:

- **Resolution**: 1280 x 720, 640 x 368, 320 x 208 optional.

- **Frame Rate**: Set the frame rate according to the bandwidth. Frame rate could be **Auto** or **from 1 fps to 30 fps (Real time)**. If the network situation is not ideal, you can reduce the frame rate to control the coding rate, make the moving pictures smoother.

- **Bit Rate**: Higher bite rate means better quality images, but takes more bandwidth, so adjust the settings according to the actual bandwidth available. The range of bit rate from 128 Kbps ~ 4 Mbps.

**For IE, the display will look as below:**

![Bit Rate and Image Quality Settings](image)

---

**For Safari, Chrome, Firefox, the display will look as below:**

![Resolution, Frame Rate, and Bit Rate Settings](image)

---

**Image Quality**: Better image quality, higher bit rate value, but it will take more bandwidth, the image quality parameters could be set as below:
For IE, the display will look as below:

![Figure 5.3](image)

For Safari, Chrome, Firefox, the display will look as below:

![Figure 5.4](image)

**NOTE**: You can select Bit Rate and Image Quality here (Low, Medium, High).

### 4.3 Audio Settings

Click **Audio Settings** to enter the interface:

#### 4.3.1 For IE, the display will look as below:

![Figure 5.5](image)
4.3.2 For Safari, Chrome, Firefox, the display will look as below:

![Audio settings interface](image)

**Figure 5.6**

- **Built-in headset**: Choose built-in MIC as the audio input device.
- **External headset**: Choose external headset as the audio input device.
- **Microphone volume**: Adjust device microphone volume here.
- **Speaker volume**: Adjust device speaker volume here.

### 4.4 Motion Detection

- **Alarm output**: Select it to enable alarm output, unselect to stop.
- **SD-Card Record**: Select it to enable record to SD card, unselect to stop.
- **Send E-mail**: Select it to enable E-mail alert function, unselect to stop. (Mail service details see 4.14).
- **FTP Upload**: Select it to enable FTP upload function, unselect to stop. (FTP details see 4.15).

Click **Save** to save all the settings.

Click **Update** to refresh the settings.

### 4.4.1 Motion Detection settings for IE browser:

Click **Motion Detection** to enter the interface:

![Motion Detection interface](image)

**Figure 5.7**
Motion Detection Zone Armed:
Can set all zones to be armed, or a specified zone to be armed.
Before setting a specified zone, you should set Motion Detection to ON, then press left mouse, drag the mouse onto video area to set the detection zone, and save it, supports 3 areas.

- **Detect All**: Setting the whole video window as the motion detect armed zone.
- **Clear**: Clear all armed zone.
- **Motion Detection**: Set motion detection armed function ON/OFF.

- **Sensitivity**: Set detection sensitivity as Low, Middle, High, Higher, Highest.
- **Alarm Duration**: Set each alarm duration, can be forever, 5s, 10s, 15s, 30s, 60s.
Action with Alarm
These are actions optional for motion detection.

Scheduler
Set motion detection under your own schedule here.
Check **Scheduler**, a calendar is shown, set your schedule, click **Save** to finish settings, and click **Update** to refresh the camera.
4.4.2 Motion Detection Settings for Safari, Chrome, Firefox:

Click **Motion Detection** to enter the interface:

![Motion Detection Interface](image)

- **Motion Detection**: Set motion detection armed function ON/OFF.
  
  ![Motion Detection Setting](image)

- **Sensitivity**: Set detection sensitivity as Low, Middle, High, Higher, Highest.
  
  ![Sensitivity Setting](image)
● **Alarm Duration**: Set each alarm duration, can be Forever, 5s, 10s, 15s, 30s, 60s.

![Alarm Duration](image)

**Figure 6.7**

**Linkage with Alarm**
These are actions optional for motion detection.

![Linkage with Alarm](image)

**Figure 6.8**

**Scheduler**
Set motion detection under your own schedule here.

Check **Schedule**, a calendar is shown, set your schedule, click **Save** to finish settings, and click **Update** to refresh the camera.

![Scheduler](image)

**Figure 6.9**
4.5 Alarm Settings

**Alarm output**: Select it to enable alarm output, unselect to stop.

**SD-Card Record**: Select it to enable record to SD card, unselect to stop.

**Send E-mail**: Select it to enable E-mail alert function, unselect to stop. (Mail service details see 4.14).

**FTP Upload**: Select it to enable FTP upload function, unselect to stop. (FTP details see 4.15).

Click **Save** to save all the settings.

Click **Update** to refresh the settings.

4.5.1 Alarm Settings for IE

Click **Alarm Settings** to enter the interface:

![Alarm Settings Interface](image_url)

- **External Alarm**: Set external alarm function ON/OFF.

![External Alarm Interface](image_url)

- **Alarm Duration**: Set external alarm output duration (Relay close time), can be Forever, 5s, 10s, 15s, 30s, 60s.

![Alarm Duration Interface](image_url)
- **Lose SD-Card Alarm**: Set alarm triggered ON/OFF if the SD-Card is lost.

  ![Lose SD-Card Alarm](image)

  Figure 7.3

- **Alarm Input**: Set alarm input ON/OFF, it supports NO/NC external alarm device, choose the correct mode to make sure it works well.

  ![Alarm Input](image)

  Figure 7.4

- **Action with Alarm**

  These are actions optional for external alarm triggered.

  ![Action With Alarm](image)

  Figure 7.5

**Scheduler**

Set Alarm under your own schedule here.

Check **Enable** and **Scheduler**, a calendar is shown, set your schedule, click **Save** to finish settings, and click **Update** to refresh the camera.

![Scheduler](image)

Figure 7.6
4.5.2 Alarm Settings for Safari, Chrome, Firefox

Click **Alarm** to enter the interface:

![Alarm Interface](image)

**Figure 7.7**

- **External Alarm**: Set external alarm function ON/OFF.

![External Alarm Interface](image)

**Figure 7.8**

- **Alarm Duration**: Set external alarm output duration (Relay close time), can be Forever, 5s, 10s, 15s, 30s, 60s.

![Alarm Duration Interface](image)

**Figure 7.9**

- **Lose SD-Card Alarm**: Set alarm triggered ON/OFF if the SD-Card is lost (removed).

![Lose SD-Card Alarm Interface](image)

**Figure 8.0**
- **Alarm Input**: (Refers to the I/O input 1). Set alarm input ON/OFF, (it supports NO/NC external alarm device), choose the desired mode.

![Alarm Input](image1)

**Figure 8.1**

- **Action with Alarm**
  These are actions optional for external alarm triggered.

![Alarm Output](image2)

**Figure 8.2**

**Scheduler**
Set Alarm under your own schedule here.
Check **Schedule**, a calendar is shown, set your schedule, click **Save** to finish settings, and click **Update** to refresh camera.

![Schedule](image3)

**Figure 8.3**

### 4.6 Basic Network Settings

Click **Basic Network Settings** to enter the interface:

- **Media Port**: Default is 38401.
- **Web Port**: Default is 80.
- **ONVIF Port**: Default is 2012. (Camera supports ONVIF, version 2.0, so you can connect to your additional devices that support the ONVIF protocol.)
- **RTSP Port**: Default is 554.
- **IP Address**: Set the IP address of camera.
- **Subnet Mark**: Default is 255.255.255.0.
- **Gateway**: Set the gateway of IP camera. If the camera connects to an extranet via a router, then the gateway is the router’s IP.

**NOTE**: Don’t change the **Media Port**, **Web Port**, **ONVIF Port**, **RTSP Port** if not necessary.
4.6.1 For IE, the display will look as below:

![Figure 8.4](image)

4.6.2 For Safari, Chrome, Firefox, the display will look as below:

![Figure 8.5](image)
Network Type: There are three modes: Static Address, DHCP, PPPoE.

For IE, the display will look as below:

![Figure 8.6](image1)

For Safari, Chrome, Firefox, the display will look as below:

![Figure 8.7](image2)

4.6.1 Static Address

Set network parameters manually

4.6.1.1 For IE, the display will look as below:

![Figure 8.8](image3)
4.6.1.2 For Safari, Chrome, Firefox, the display will look as below:

![Image of Network Configuration Table]

**Figure 8.9**

### 4.6.2 DHCP

Choose DHCP, the camera will get IP address automatically.

#### 4.6.2.1 For IE, the display will look as below:

![Image of DHCP Configuration Table]

**Figure 9.0**

#### 4.6.2.2 For Safari, Chrome, Firefox, the display will look as below:

![Image of DHCP Configuration Table]

**Figure 9.1**

- **Media Port**: Default is 38401.
- **Web Port**: Default is 80.
- **ONVIF Port**: Default is 2012. (Camera supports ONVIF, version 2.0, so you can connect to your additional devices that support the ONVIF protocol.)
- **RTSP Port**: Default is 554.

**NOTE**: Don’t change the Media Port, Web Port, ONVIF Port, RTSP Port if not necessary.
4.6.3 PPPoE

Set parameters here to enable PPPoE function.

4.6.3.1 For IE, the display will look as below:

Figure 9.2

4.6.3.2 For Safari, Chrome, Firefox, the display will look as below:

Figure 9.3

- **Media Port**: Default is 38401.
- **Web Port**: Default is 80.
- **ONVIF Port**: Default is 2012. (Camera supports ONVIF, version 2.0, so you can connect to your additional devices that support the ONVIF protocol.)
- **RTSP Port**: Default is 554.
- **Enable PPPoE**: Choose Open to enable PPPoE function.
- **PPPoE User**: The account provided by ISP
- **PPPoE Password**: The password provided by ISP.
- **PPPoE IP Addr**: If PPPoE dial-up succeed, it will display the IP address distributed by your ISP.

**NOTE**: Don’t change the **Media Port**, **Web Port**, **ONVIF Port**, **RTSP Port** if not necessary.
For IE, the display will look as below:

<table>
<thead>
<tr>
<th>DNS Server</th>
<th>192.168.1.1</th>
</tr>
</thead>
<tbody>
<tr>
<td>MAC Address</td>
<td>00:11:22:33:02:03</td>
</tr>
</tbody>
</table>

Figure 9.4

For Safari, Chrome, Firefox, the display will look as below:

<table>
<thead>
<tr>
<th>DNS Server</th>
<th>192.168.1.1</th>
</tr>
</thead>
<tbody>
<tr>
<td>MAC Address</td>
<td>00:11:22:33:44:5</td>
</tr>
</tbody>
</table>

Figure 9.5

- **DNS Server**: Set DNS server.
- **MAC Address**: MAC address of the IP Camera.

If you don’t know **Subnet Mask**, **Gateway**, **DNS Server**. Please check the Local Area Connection Status of your computer; it contains all this information, steps as below:

1. **Control Panel > Network Connections > Local Area Connections > Support > Details**
2. Find the local connection icon from taskbar, left click it, choose **Support > Details**

Figure 9.6
If you don't know the DNS Server, you can set it the same as Gateway.

4.6.4 DDNS: Enable DDNS function.

4.6.4.1 For IE, the display will look as below:

<table>
<thead>
<tr>
<th>Enable DDNS</th>
<th>Open:</th>
</tr>
</thead>
<tbody>
<tr>
<td>DDNS Server Type</td>
<td>Factory DDNS</td>
</tr>
<tr>
<td>DDNS User</td>
<td>abc</td>
</tr>
<tr>
<td>DDNS Password</td>
<td>xxx</td>
</tr>
<tr>
<td>DDNS Host Name</td>
<td>abc.aipcam.com</td>
</tr>
</tbody>
</table>
4.6.4.2 For Safari, Chrome, Firefox, the display will look as below:

![Figure 9.9 DDNS Configuration](image)

There are 2 options:

**Factory DDNS**: This domain is provided by the manufacturer.

**Third Party DDNS**: This domain is provided by a 3rd party, such as Dyndns, 3322 etc.

- **Enable DDNS**: Set DDNS function ON/OFF.
- **DDNS Service Type**: Set DDNS server type, such as factory DDNS or third party DDNS server provider.
- **DDNS User**: Registered user name from DDNS server. (If you use factory DDNS, it can’t be modified.)
- **DDNS Password**: Registered password from DDNS server. (If you use factory DDNS, it can’t be modified.)
- **DDNS Host Name**: Domain name set by user. (If you use factory DDNS, it can’t be modified.)

For the third party DDNS, you have to register an account first, keep the user, password, host, then input it.

**NOTE**: Only one DDNS can be chosen, for example, if you use manufacturer’s DDNS, the 3rd one won’t work, if you use a 3rd DDNS, the manufacturer’s one won’t work.
4.7 Wireless Lan Settings

Click **Wireless Lan Settings** to enter the interface:

4.7.1 For IE, the display will look as below:

![Wireless Lan Settings for IE](image)

**Figure 10.0**

4.7.2 For Safari, Chrome, Firefox, the display will look as below:

![Wireless Lan Settings for Safari](image)

**Figure 10.1**

Click the icon **Search** to scan the wireless network in this environment automatically.

**Using Wireless Lan**: Set Wi-Fi ON/OFF.

**SSID**: the ID of Wireless network, it should be the same SSID as the connected Wi-Fi router.
**Network Type**: Two modes:

1. **Infra** (Infrastructure Mode), if using normal AP, choose *Infra* mode.
2. **Ad-Hoc** Mode. If using point-to-point transmission, choose *Ad-Hoc* mode.

The factory setting is *Infra*.

- **Encryption**: WEP, TKIP, AES optional.
- **Authentication**: WEP: Open System or Share Key. **TKIP (AES)**: WPA-PSK or WPA2-PSK.
- **Select Key**: Choose the channel of WEP share Key.
- **Key**: Input the key the same as the settings in your router.

All the Wi-Fi encryption mode settings should be the same as your Wi-Fi router, and different encryption has different authentication menu.

### 4.8 UPNP Settings

Click **UPNP Settings** to enter the interface:

**4.8.1 For IE, the display will look as below:**

![Figure 10.2](image1)

**4.8.2 For Safari, Chrome, Firefox, the display will look as below:**

![Figure 10.3](image2)

**Enable UPNP**: Set UPNP function ON/OFF.

Select it to enable UPNP, then the camera will do port forwarding automatically.

It’s helpful for using DDNS, if your router support UPNP, then you no need do port forwarding in router.

**NOTE**: Here UPNP only for port forwarding now. It has much relation with security settings of your router, make sure the UPnP function of router is ON.

**ATTENTION**: If your router doesn’t support UPNP function, it may show error information. So we recommend you do port forwarding manually in your router.
4.9 Cruise Settings

Click **Cruise Settings** to enter the interface:

### 4.9.1 For IE, the screen will be as below:

Set to make the camera cruise all the time for your selected area.

![Figure 10.4](image)

1. Set the Cruise Name: 

2. Enable State: 

3. Select each ID, it will change to blue when you select it, then click Edit to edit States, Preset ID, Residence time and Speed, then click OK to finish settings.

   **Note:** Do not set multiple preset IDs to the same setting.

4. Click **Save** to finished settings.

5. After clicking **Save**, you need to go to the video interface, and set Preset. (Set preset details see 3.4 Left side Menu, and find preset setting according to your browser.)

6. After you set Preset, click the **Cruise Icon**, and choose the **Cruise Name** you set, click **Update**. The camera will start cruising. Choose **Stop Cruise** to stop it.

![Figure 10.5](image)
Click the Cruise icon and choose the **Cruse Name** you set, click **Update** to start cruising. Choose **Stop Cruise** to stop cruising.

4.9.2 For Safari, Chrome, Firefox, the display will look as below:

Set to make the camera cruise all the time for your selected area.
1. Click **Cruse** to enter the interface, and set the **Name**, enable **Status**, enable **Serial Number**, Choose **Preset** ID, set **Residence time** and **Speed**. Then click **Update** to finish settings.

2. Go back to the video interface, and Set Presets (for details see Left Side Menu in sections 3.2.1.3 and 3.2.1.4, and find preset settings according to your browser type).

3. After you set Preset, click the Cruise Icon, and choose the **Cruise Name** you set, the camera will start cruising. Choose **Stop Cruise** to stop cruising.

![Figure 10.9](image)

### 4.10 Indicator Settings

You can turn on, adjust, or turn off the indicator here. Click **Save** then **Update** to finish settings.

#### 4.10.1 For IE, the display will look as below:

![Figure 11.0](image)

![Figure 11.1](image)
4.10.2 For Safari, Chrome, Firefox, the display will look as below:

![Figure 11.2](image1)

4.11 User Manage

Click **User Manage** to enter the interface:

4.11.1 For IE, the display will look as below:

![Figure 11.4](image2)
4.11.2 For Safari, Chrome, Firefox, the display will look as below:

Every camera supports 10 users, and every user can be divided into four grades including **Super Administrator**, **Administrator**, **Operator**, **Visitor**.

Click **Add**, will pop-up the window as below:

**For IE, the display will look as below:**

**Super Administrator**: Every device has a super administrator, it has the highest permission, can set all the parameters.

**Administrator**: Lower permission than super administrator, it can set most of the parameters except adding or editing other administrator accounts.

**Operator**: Lower permission than administrator, can do some operation such as pan/tilt control and set some parameters.

**Visitor**: The lowest permission, only can view live video, can’t control the pan/tilt, parameter settings etc.
4.11 Log

Click Log to enter the interface:

4.11.1 For IE, the display will look as below:

![Figure 11.7]

4.11.2 For Safari, Chrome, Firefox, the display will look as below:

![Figure 11.8]

Record user information, including account, date, time, visitor IP address etc.
4.12 Date Time Settings
Click Date Time Settings to enter the interface:

4.12.1 For IE, the display will look as below:

![Date Time Settings](image)

Figure 11.9

4.12.2 For Safari, Chrome, Firefox, the display will look as below:

![Date Time Settings](image)

Figure 12.0

**Date Time**: Display the current date and time

**Time Zone**: Set the current time zone

**Time Mode**: Can choose PC Time or NTP Time.

For IE, the display will look as below:

![Date Time Settings](image)

Figure 12.1
For Safari, Chrome, Firefox, the display will look as below:

![Figure 12.2]

**NTP Server**: Choose the relevant NTP server when set time mode as NTP Time.

### 4.13 Multi-Device Settings for IE browser

**Note**: Multi-Device only can be set under IE Browser, for Firefox, Safari, Chrome, you cannot see these setting, as they do not support ActiveX.

Click **Multi-Device Settings** to enter the interface:

![Figure 12.3]

Click **Search**, all the cameras connected in the Lan will be listed, then select a number from the bottom window, click edit, will pop-up a parameter settings window:
Choose the ID, input host, web port, media port, username, and password manually, click OK to submit.

4.14 Mail Service Settings

Click Mail Service Settings to enter the interface:

4.14.1 For IE, the display will look as below:
4.14.2 For Safari, Chrome, Firefox, the display will look as below:

![Image of web interface](image)

**Enable Smtp**: Set e-mail function ON/OFF.
**Addresser**: Set sender’s name.
**Outbox**: Set sender’s email address.
**Inbox**: Set receiver’s email box. (Supports 3 emails simultaneously)
- Add email address
- Delete email address which selected.
**SMTP Server**: The sender’s SMTP server.
**SMTP Port**: The sender’s SMTP Port, usually is 25, some SMTP servers have their own port, e.g., the smtp port for Gmail is 465.
**Auth User**: Verify the user settings.
**SMTP User**: Set sender’s user name.
**SMTP password**: Set sender’s password.

### 4.15 FTP Service Settings

Set FTP service, Snapshots will be delivered to appointed FTP server when alarmed.
Click **FTP Service Settings** to enter the interface:
4.15.1 For IE, the display will look as below:

![Figure 12.7](image)

4.15.2 For Safari, Chrome, Firefox, the display will look as below:

![Figure 12.8](image)

**Enable FTP:** Set FTP function ON/OFF.

**FTP Server:** Set FTP server address.

**FTP Port:** Set the port of FTP server, default is 21.

**FTP User:** Set the user name of FTP server.

**FTP Password:** Set the password of FTP server.

**Upload Folder:** Set the path of remote FTP server. Make sure that the folder you plan to store images exists. (The camera cannot create the folder itself). Also, the folder must be erasable.

**FTP Mode:** It supports standard (POST) mode and passive (PASV) mode.

Click save to submit, click test to check the settings.

**Upload Image Now:** Enable it to start uploading.

**Upload Interval (Seconds):** Set upload interval time here, for example: when set to 2, the camera will upload every 2 seconds.

**NOTE:** When alarmed, there will be 3 snapshots sent to the FTP server every 1 second.
4.16 P2P settings

The XX59A camera supports Peer to Peer (P2P) technology for easy setup.

**P2P-1**: The P2P ID is provided from the factory, and is shown on the bottom of the camera, each P2P ID is different.

**User Name**: default—admin (for P2P-1 only)

**Password**: default—000000 (for P2P-1 only)

**P2P-2**: You can set another P2P ID here, but you may need to purchase a P2P ID from a third party company, so we don’t suggest you do that.

4.16.1 For IE, the display will look as below:

![Figure 12.9](image)

4.16.2 For Safari, Chrome, Firefox, the display will look as below:

![Figure 13.0](image)
4.17 SD Card Info.

Click **SD-Card Info** to enter the interface:

4.17.1 For IE, the display will look as below:

![Figure 13.1](image1)

Device Name: Display the name of SD card.

Total Size: Display the total size of SD card.

4.17.2 For Safari, Chrome, Firefox, the display will look as below:

![Figure 13.2](image2)

Device Name: Display the name of SD card.

Total Size: Display the total size of SD card.
**Free Space/Available Space:** Display the free space of SD card

**State:** Display the state of SD card.

**Format:** Click it to delete all data and format the SD card. (All data will be lost if formatted).

**Open Auto cover:** Set SD card auto cover when it's full.

**Open Pre-recording:** Set Pre-recording function (Record the video before alarm triggered).

**Pre-recording Time:** Set the Pre-recording time, can be from 1 to 6 seconds.

**Record Stream:** Choose the stream here.

**Manual Rec.:** Set as Open, this means when you click record, the SD card will also start recording at the same time.

**Manual Rec. Pack Time:** Set the record time. Min: 10 mins, Max: 60 mins.

### 4.18 Local Settings for IE browser

**Note:** Local Settings shows under IE ActiveX mode only.

Click **Local Settings** to enter the interface:

[Figure 13.3]

**Enable Alarm Audio:** Set audio ON/OFF once alarmed.

**Enable Alarm Rec:** Set alarm record function ON/OFF.

**Alarm Rec Time:** Set alarm record duration time, can be 30s, 1min, 2min, 3min, 5min.

**Manual Rec Pack Time:** Set the manual record file pack time, can be 30min, 1h, 2h, 3h, 5h.

**Record Path:** Set the path for record file saved.

**Capture Path:** Set the path for snapshot saved.

**Download Path:** Set the path to download video from the SD Card to your PC. You can then search for these in **Playback** mode.
4.19 System Tool

Click System Tool to enter the interface:

4.19.1 For IE, the display will look as below:

![System Tool Interface for IE](Image)

Figure 13.4

4.19.2 For Safari, Chrome, Firefox, the display will look as below:

![System Tool Interface for Safari, Chrome, Firefox](Image)

Figure 13.5

- **Reboot Device**: Click to Reboot the camera.
- **Restore Factory Settings**: Click it, all the parameters will be set back to factory settings.
- **Upgrade Device Firmware**: Click Browse/Choose File, choose the correct system file for upgrade, then click Start.
- **Upgrade Device Web UI**: Click Browse/Choose File, choose the correct Web UI file for upgrade, then click Start.

**IMPORTANT**: Make sure you use the correct upgrade file, you must keep the power on when upgrading, wired mode is suggested. Note, wrong operation or incorrect upgrade file may damage the device.
5. PLAYBACK for IE browser only

Note: Playback function shows under IE ActiveX mode only.

Click login the playback interface, this is for SD Card files playback.

Click search icon, will pop-up a window for search file, set the mode or time, click OK to submit, then all the correlative files will be listed on the right side.
Search Mode: There are 4 search modes optional.

1. **Type**: means search by the file type.

2. **Time**: means search by the appointed record time.

3. **Type and Time**: means search by both file type and appointed record time.

4. **All**: means all the files.
After searching, files will be listed on the right side window, choose the file, double click it or click play icon to start replay. You can check the replay file information here, and do other operations such as Stop, Pause, Previous, Next, Fast Backward, Fast Forward etc.

![Figure 14.1](image)

**Image Enlarge and Reduce**

During playback, users can enlarge the image to see the video details, it supports 2X, 4X, 8X zoom. Click the enlarge icon, will pop-up a window to choose the zoom in type. Click the reduce icon, will zoom out the image.

![Figure 14.2](image)

**Audio:**

During playback, you can adjust the volume, drag the volume icon on the right bottom side.

![Figure 14.3](image)
6. FREQUENTLY ASKED QUESTIONS

1. I have forgotten the administrator username and/or password
There is a [RST] button on the rear panel, keep the power on, hold the reset button for 30 seconds, it will restore back to factory default settings as below:

Username: admin
Password: none, i.e. no password set

NOTE: Please don’t press RST button unless you are sure you want to do it.

2. There is no picture displayed in IE browser (For IE only)
It maybe the ActiveX problem,
If using the IE browser for the first time, you should install the ActiveX control, details as below:

Before login, click the ActiveX icon at the right side of interface to download, save the file, run it to install the ActiveX.

3. Fail to visit IP camera via IE after upgrading (For IE Only)
Solution: Clear the browser buffer.
Steps: Open IE > click Tools > Internet Options > General > Delete > Internet temporary files, delete the cookies and temporary files, then click OK and re-login.

4. The video is not smooth
Possible reason 1: The frame rate value is too small.
Solution: Increase the frame rate value.
Possible reason 2: Too many users are connecting to the device.
Solution: Close some connection or reduce the video frame rate.
Possible reason 3: Network bandwidth is too low, lots of lost packets.
Solution: Reduce the video frame rate or video compression bit rate.

5. Fail to visit IP camera via IE browser
Possible Reason 1: Network is disconnected.
Solution: Connect your PC to network, check whether the network works well or not. Check if there’s a problem with the cable connection, or network problem caused by PC virus.
Possible reason 2: IP Address has been occupied by other devices.
Solution: Stop the connection between IP camera and network; connect the IP camera to PC. Directly reset IP address according to the proper operations recommended.
Possible reason 3: IP addresses are in different subnets.
Solution: Check IP address, Subnet masking and Gateway.
Possible reason 4: Physical address of network conflicts with the IP camera.
Solution: modify the physical address of IP camera.
Possible Reason 5: Web port has been modified.
Solution: Contact as Network Administrator to obtain related information.

Possible Reason 6: Unknown.
Solution: Press RESET to restore to factory settings then connect it again, the default IP address is 192.168.1.155, subnet mask is 255.255.255.0.

6. The color of image is abnormal (Green or other color)
Sometimes the IP camera images cannot be displayed properly because of different graphics cards, the images appears to be green or other colors, then you should run the program "Config.exe" from the downloaded OCT files. (or run C:\windows\system32\Config.exe) to set the following parameters for the display buffer: auto-detection, used display card memory or system memory, then run IE, connect IP camera again.

7. There is no voice while monitoring
Possible Reason 1: No audio input connection.
Solution: Check audio connection of the host.
Possible Reason 2: the relative audio option of IP camera is OFF.
Solution: Check audio parameter settings to see if you have set the audio option ON, but without external audio input.

8. Image processing doesn’t work properly
Possible Reason 1: System problem, DirectX function is disabled, which will cause slow display of images and abnormal color.
Possible Reason 2: Hardware problem, graphics card doesn’t support image acceleration and hardware zooming functions. (For hardware issue, the only solution is to change your graphics card).
Solution: Install DirectX image driver, then click Start > Run > input dxdiag, set enable DirectDraw, Acceleration Direct3D, Acceleration AGP, Texture Acceleration, functions.

![Figure 14.4](image)
Note: If you are unable to do it, it means your DirectX is not installed properly or hardware doesn't support this function.
9. **Fail to use DDNS**

**Possible Reason 1:** The PC or IP Camera can’t connect to the internet.

**Solution:** Check the internet connection and settings.

**Possible Reason 2:** Port forward is not set in router.

**Solution:** Set the port forward of extranet in router correctly.

For example, if IP Camera address is: 192.168.1.100, Media port is 38401, Web port is 85, factory DDNS is http://test.aipcam.com.

**Set Port Forwarding in the router.**

This is an important step. You need to set port forwarding in your router, to refer to the IP of your camera correctly, for DDNS to work. There are so many kinds of routers, so it’s difficult to show fixed steps, but here are some samples of different router’s port forwarding settings, just for reference:

**TP-LINK:**

1. Login to the router.

2. Choose **Forwarding**, select **Virtual Servers**

3. Click the Add New button, pop-up below:

![Add or Modify a Virtual Server Entry](image)

**Figure 14.5**

Fill in the service port (don’t use 80), IP address of the camera, then click Save

**NOTE:** The port and IP address should be the same as the camera.

Fill in the web port, for example port 85, IP address as 192.168.1.100, click Save.

(1) Repeat step 3 above, it will pop-up the window again, fill in the media port as 38401, IP address as 192.168.1.100, then save.

(2) Then check the **Device Info – DDNS Status**

It will show DDNS: [http://test.aipcam.com:85](http://test.aipcam.com:85), input this link in IE, then you can visit this camera remotely.
BELKIN:

1. Login to the router.
2. Choose **Firewall**, select **Virtual Servers**
3. Input the port (**don’t use 80**) and IP address, then click save.

**NOTE:** The port and IP address should be the same as the camera.

![Figure 14.6](image)

DLINK:

1. Login to the router.
2. Choose **Advanced**, select **Virtual Servers**
3. Input the port, IP address, Protocol, then click save.

**NOTE:** The **public port & private port** should be the same as camera’s port, choose the protocol to be **both**.

![Figure 14.7](image)
<table>
<thead>
<tr>
<th><strong>Image Sensor</strong></th>
<th><strong>Display Resolution</strong></th>
<th><strong>Lens</strong></th>
<th><strong>Mini. Illumination</strong></th>
<th><strong>Viewing Angle</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>1/4&quot; Color CMOS Sensor</td>
<td>1280 x 720 Pixels (1000K Pixels, i.e. 1 Megapixel)</td>
<td>f: 4.2 mm, F:2.0 (IR Lens)</td>
<td>0.5 Lux</td>
<td>60 Degree</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Audio</strong></th>
<th><strong>Input</strong></th>
<th><strong>Output</strong></th>
<th><strong>Audio Compression</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Built-in Microphone/1 channel audio input</td>
<td>1 channel audio output</td>
<td>ADPCM</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Video</strong></th>
<th><strong>Image Compression</strong></th>
<th><strong>Image Frame Rate</strong></th>
<th><strong>Resolution</strong></th>
<th><strong>Flip Mirror Images</strong></th>
<th><strong>Light Frequency</strong></th>
<th><strong>Video Parameters</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>H.264, MJPEG</td>
<td>30fps (VGA), 30fps (QVGA)</td>
<td>1280 x 720 (VGA), 640 x 368 (VGA), 320 x 208 (QVGA)</td>
<td>Vertical / Horizontal</td>
<td>50Hz, 60Hz</td>
<td>Brightness, Saturation, Contrast, Hue</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Communication</strong></th>
<th><strong>Ethernet Interface</strong></th>
<th><strong>Supported Protocol</strong></th>
<th><strong>Compress rate level</strong></th>
<th><strong>Wireless Standard</strong></th>
<th><strong>Data Rate</strong></th>
<th><strong>Wireless Security</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Build in 10/100Mbps, Auto MDI/MDIX, RJ-45</td>
<td>TCP/IP HTTP DNS DHCP PPPoE SMTP FTP SSL TFTP NTP ARP/RARP NFS RTSP RTP RTCP</td>
<td>128Kbps ~ 4Mbps</td>
<td>IEEE 802.11b/g/n</td>
<td>802.11b: 11Mbps (max.), 802.11g: 54Mbps (max.), 802.11n: 150Mbps (max.)</td>
<td>WEP &amp; WPA WPA2 Encryption</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Physical</strong></th>
<th><strong>Pan/Tilt Angle</strong></th>
<th><strong>Infrared Light</strong></th>
<th><strong>Alarm Input</strong></th>
<th><strong>Alarm Output</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Horizontal: 270° &amp; Vertical: 120°</td>
<td>10 IR LEDs, Night visibility up to 15 meters</td>
<td>1 Channel on/off Input</td>
<td>1 Channel relay Output</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Power</strong></th>
<th><strong>Power Supply</strong></th>
<th><strong>Power Consumption</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>DC 5V/2.0A (EU, US, AU adapter or other types optional)</td>
<td>7 Watts (Max.)</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Environment</strong></th>
<th><strong>Operate Temper.</strong></th>
<th><strong>Operating Humidity</strong></th>
<th><strong>Storage Temper.</strong></th>
<th><strong>Storage Humidity</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>0° ~ 55°C (14°F ~ 131°F)</td>
<td>20% ~ 85% non-condensing</td>
<td>-10°C ~ 60°C (14°F ~ 140°F)</td>
<td>0% ~ 90% non-condensing</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>PC System Requirements</strong></th>
<th><strong>CPU</strong></th>
<th><strong>Memory Size</strong></th>
<th><strong>Display Card</strong></th>
<th><strong>Supported OS</strong></th>
<th><strong>Browser</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>2.0GHZ or above (suggested 3.0GHz)</td>
<td>256MB or above (suggested 1.0GHz)</td>
<td>64M or above</td>
<td>Microsoft Windows 2000/XP/Vista/7</td>
<td>IE6.0/7.0/8.0/Firefox/Safari/Google chrome or other standard browsers</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Certification</strong></th>
<th>CE, FCC, RoHS</th>
</tr>
</thead>
</table>
8. OBTAINING TECHNICAL SUPPORT

We hope your experience with your IP network camera is enjoyable, but if you experience any issues or have any questions that this User's Guide has not answered, please visit www.x10.com/support, e-mail support@x10.com or call 1-888-384-0969.

If your camera does not support some special functions shown in this manual, please contact our technical support team to obtain the latest Firmware and WEB UI file for upgrading.

FCC Caution

THIS DEVICE COMPLIES WITH PART 15 OF THE FCC RULES.
OPERATION IS SUBJECT TO THE FOLLOWING TWO CONDITIONS:
(1) THIS DEVICE MAY NOT CAUSE HARMFUL INTERFERENCE, AND
(2) THIS DEVICE MUST ACCEPT ANY INTERFERENCE RECEIVED, INCLUDING INTERFERENCE THAT MAY CAUSE UNDESIRED OPERATION.

This equipment generates and uses radio frequency energy, and if not installed and used properly, that is, in strict accordance with the manufacturer’s instructions, it may cause interference to radio and television reception. It has been type tested and found to comply with the limits for remote control devices in accordance with the specifications in Sub-Parts B and C of Part 15 of FCC Rules, which are designed to provide reasonable protection against such interference in a residential installation. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause interference to radio or television reception, which can be determined by unplugging the equipment, try to correct the interference by one or more of the following measures.

• Reorient the antenna of the radio/TV experiencing the interference.
• Relocate the equipment with respect to the radio/TV.
• Move the equipment away from the radio/TV.
• Plug the equipment into an outlet on a different electrical circuit from the radio/TV experiencing the interference.
• If necessary, consult your local dealer for additional suggestions.

NOTE: Modifications to this product will void the user’s authority to operate this equipment.

X10 AIRSIGHT 90 Day Limited Warranty

X10.com, a division of Authinx Inc., warrants this product to be free from defective material and workmanship for a period of 90 days from the original date of purchase at retail. X10 agrees to repair or replace, at its sole discretion, a defective product if returned to X10 within the warranty period and with proof of purchase. If service is required under this warranty:

Call 1-888-384-0969, visit www.x10.com, or email support@x10.com