



*Your Security
Our Focus*



QRT-301

Web Client user name: admin

Web Client default password: admin

P2P user name: admin

P2P default password: 123456

Day & Night WI-FI Network Camera

User's Manual

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Safety and Regulatory Info

Safety Information



Warning

This is the symbol for indicating any potential hazard, risk or condition requiring special attention. The user needs to refer to the important operating and maintenance or servicing instructions.



Caution

The lighting flash with an arrow head symbol, in an equilateral triangle, is intended to alert the user. There is dangerous “voltage” presence near by the product’s enclosure which may be risk of person.

Safety Precautions

1. Read the user manual carefully before attempting to install the camera and keep the manual for future reference.
2. Follow all instructions.
3. Always keep the glass lens clean to obtain the best picture quality. Clean only with dry cloth.
4. Do not install near water or heat sources such as radiators or other apparatus that produce heat.
5. Do not install the camera in places with high humidity.
6. Do not install the camera in places highly exposed to gas or oil.
7. Do not install the camera in places enclosed by metal. This may shield the electromagnetic waves and cause signal reception to fail.
8. Do not touch the camera with wet hands.
9. Do not expose the camera to radioactivity or place near medical equipment with radio waves.
10. Do not service the camera by yourself. Refer all servicing to authorized personnel.
11. Always handle the device with care.



Warning

To prevent fire or shock, DO NOT expose the unit to rain or moisture.



Caution

To reduce the risk of electric shock, DO NOT use other power cables other than the one supplied.

FCC Compliance Statement

This equipment has been tested and found to comply with the limits for a Class C digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

Modifications not expressly approved by the manufacturer could void the user’s authority to operate the equipment under FCC rules.

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- This publication is provided “AS IS” without warranty of any kind, either expressed or implied, including but not limited to, the implied warranties of merchantability, fitness for any particular purpose, or non-infringement of a third party’s rights.
- This publication may include technical inaccuracies or typographical errors. Changes may be made to the information herein, at any time, for publication improvements and/or of the corresponding device(s).

Disclaimer of Warranty

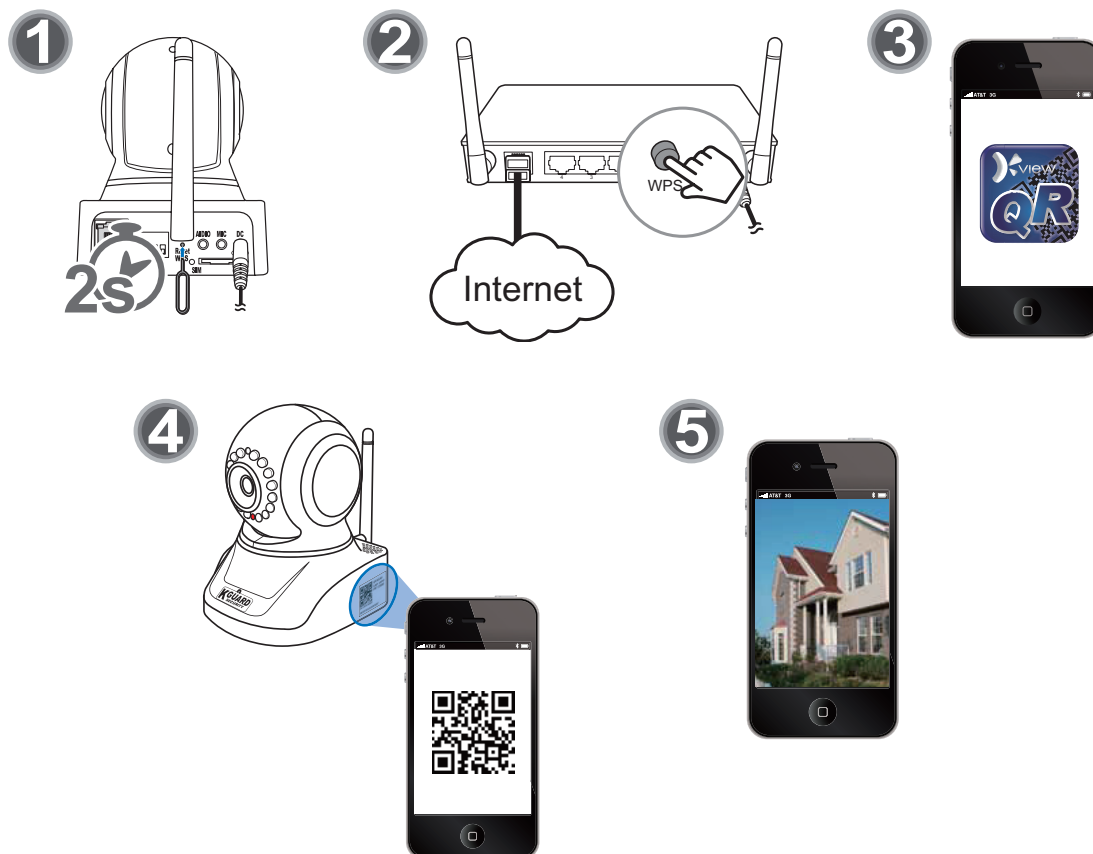
In no event shall the supplier be liable to any party or any person, except for replacement or reasonable maintenance of the product, for the cases, including but not limited to the following:

- Any damage or loss, including but without limitation, direct or indirect, special, consequential or exemplary, arising out of or relating to the device;
- Personal injury or any damage caused by inappropriate use or negligent operation of the user;
- Unauthorized disassemble, repair or modification of the device by the user;
- Any problem, consequential inconvenience, or loss or damage, arising out of combining the system with the devices of a third party;
- Any claim or action for damages, brought by any person or organization being a photogenic subject, due to violation of privacy with the result of pictures from a surveillance camera, including saved data, for some reason, becomes public or is used for the purpose other than for surveillance.

Introduction

Thank you for choosing our Wi-Fi Network Camera. The QRT-301 features an easy-to-configure network interface, allowing you to access the camera on your mobile/pad anywhere at any time.

If you are using a wireless router with the WPS function, all you need to do is to pair the router with the camera, download the Kview QR application on your portable device, scan the QR code to add the camera, and start viewing the remote live view. The network configuration can be completed without the use of a computer.



Features

- IEEE 802.11b/g/n 150Mbps Wireless Transmission
- WPA-PSK & WPA2-PSK Wireless Encryption Support
- 720p (1 Mega pixels) High Quality Recording and Playback Support
- WPS Support
- Standard H.264 Compression For Enabling Smoother Video Images
- Built-in SD Memory Card Slot for up to 32G

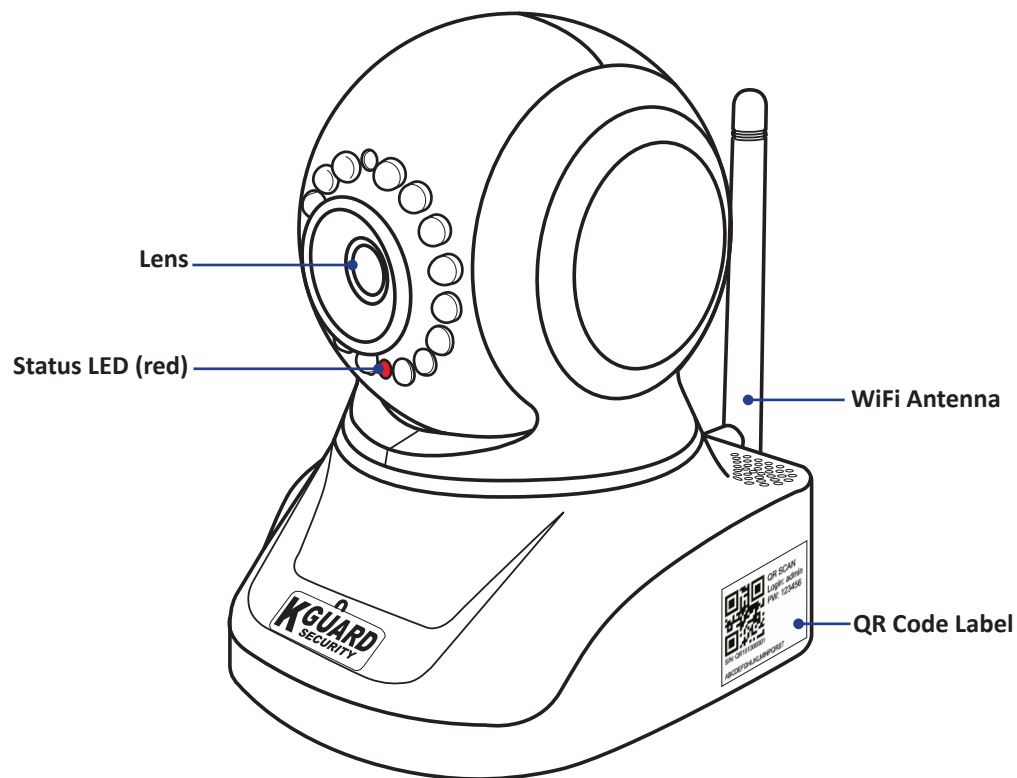
Package Contents

The following items come with your package. If any of them is missing or damaged, please contact your retailer.

- Antenna
- Quick Installation Guide
- Software & User Manual CD
- Power Adapter
- RJ45 Cables
- Screw Kit
- Bracket
- WPS/Reset Pin Tool

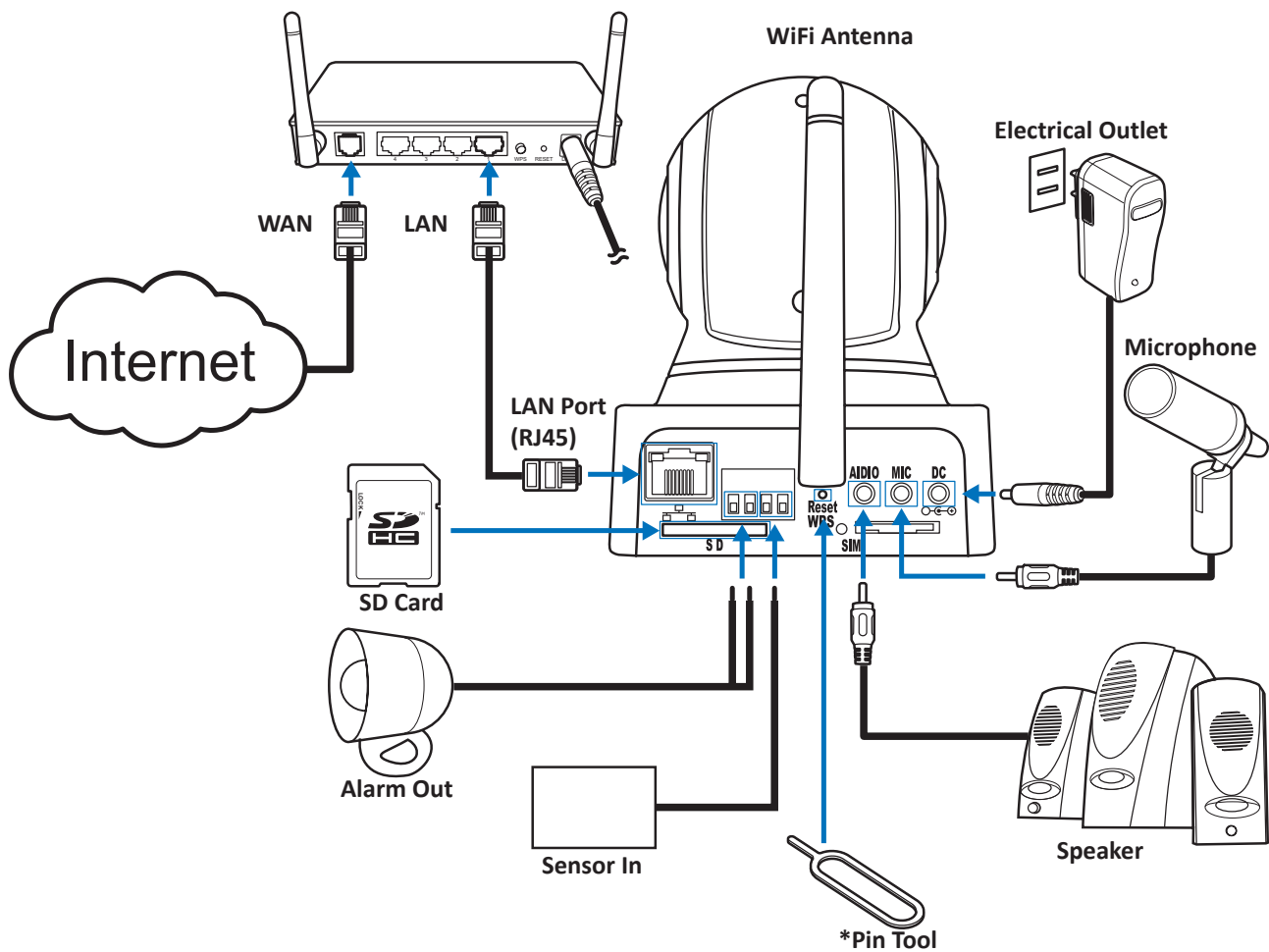
Introduction

Product Overview



Introduction

Connection Diagram



NOTE: The Pin tool can be used to start the WPS function (see “Wireless Router With WPS Function” on page 7) or to reset the camera (insert and hold in the reset hole for 15 seconds until the LAN port LEDs switch off).

Making Connection

Network Configuration

Procedures of Network Configuration depend on the type of Router/Modem you are using.

For **Wireless** router, check if your wireless router supports WPS function.

For **Wired** router/modem, confirm which type of internet connection (DHCP, Static IP and PPPoE) you are using with your Internet Service Provider (ISP) to complete the setup.

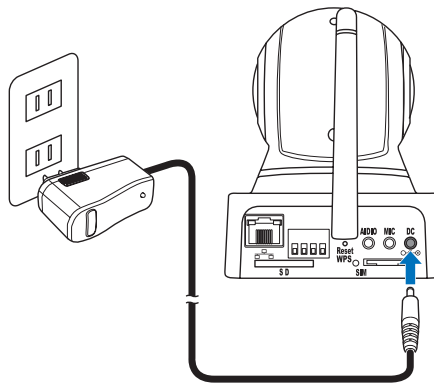
Wireless Router

If you are using a wireless router, check if your router supports WPS function before wireless setup.

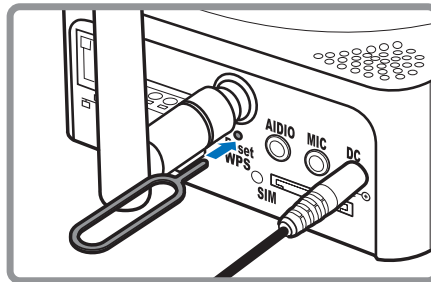
Wireless Router With WPS Function

If your wireless router supports WPS function, perform the following to establish a connection from the camera to the wireless router. Make sure the WPS function on router is activated first.

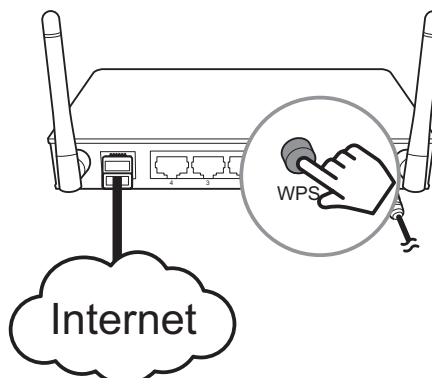
1. Connect the camera to the power socket, using the power adapter.



2. Using a Pin tool, press and hold down the **WPS/Reset** button for 2 seconds. The camera's status LED (red) starts blinking.



3. On your wireless router, press the WPS function key for a minute, to start WPS pairing.
IMPORTANT: For the WPS pairing process, you must press the WPS function within 1 minute after pressing the **WPS/Reset** button in [Step 2](#). However, the step may vary, depending on the wireless router's configuration.



Making Connections

4. When the red status LED (see “Product Overview” on page 5) turns off, wait for 10 seconds until the Camera boots up and starts rotating.

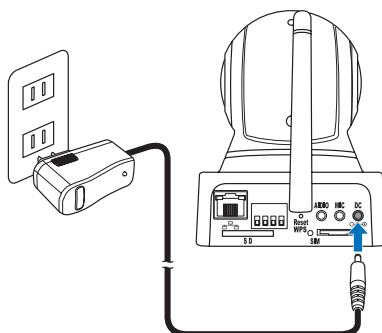
NOTE: When the red status LED starts blinking with a second interval, it means the wireless network connection is successful.

5. Download **KviewQR** application and view the live view on your mobile devices. See “Connect to Camera” on page 16.

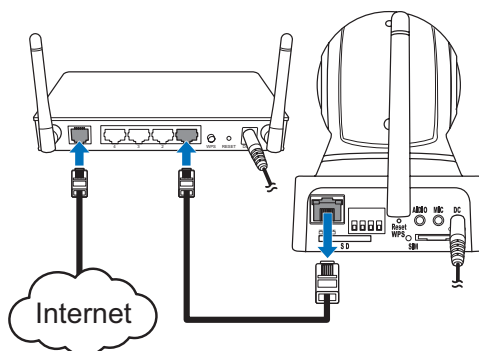
Wireless Router Without WPS Function

If your wireless router does not support WPS function, perform the following to establish a connection from the camera to the wireless router:

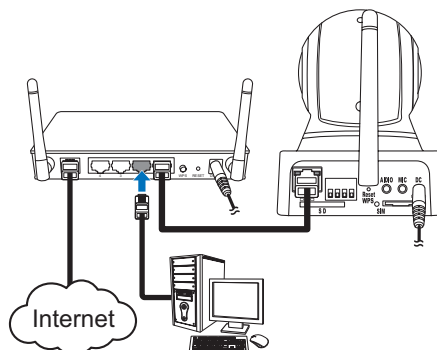
1. Connect the camera to the power socket, using the power adapter.



2. Connect one end of the RJ45 cable (supplied) to the camera and the other end to the wireless router.

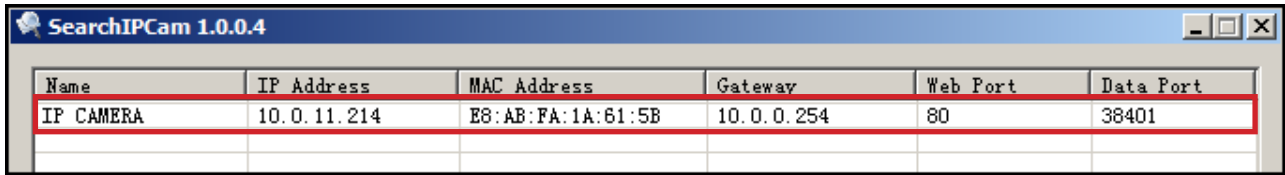


3. Make sure your camera and computer are connected to the same router.



Making Connections

4. Insert the CD (supplied) to your PC's CD drive. Click on **Search IP**.
5. The program lists the camera by IP address. Double-click on the camera's IP address field.

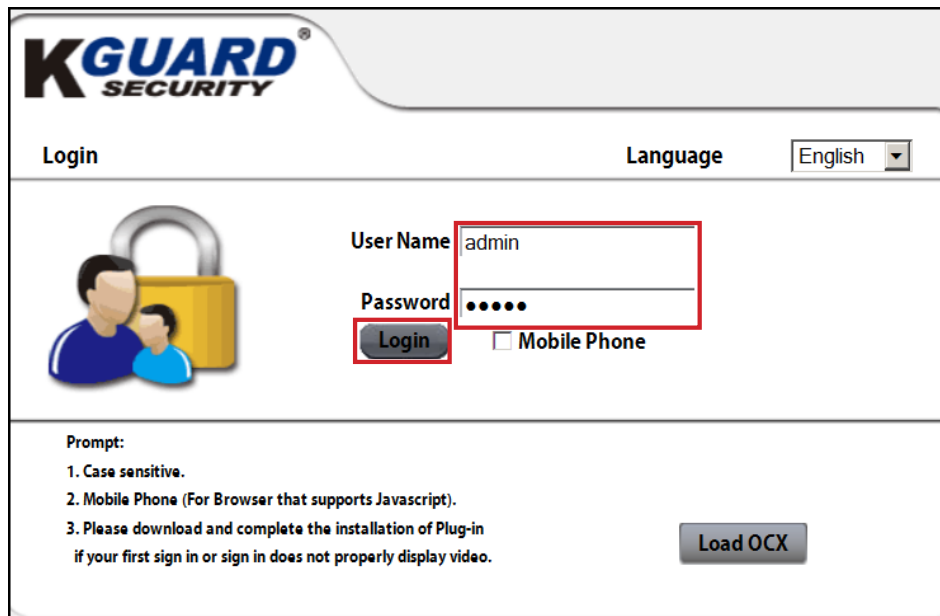


Name	IP Address	MAC Address	Gateway	Web Port	Data Port
IP CAMERA	10.0.11.214	E8:AB:FA:1A:61:5B	10.0.0.254	80	38401

The camera's web client opens in your PC's default web browser.

NOTE: The available functions/menu options may vary depending on the type of web browser. See “Web Client Browser Compatibility” on page 44.

6. Enter the user name and password. **NOTE:** The default user name and password are “admin”.
7. Click **Login**.



KGUARD SECURITY

Login Language English

User Name admin


Password

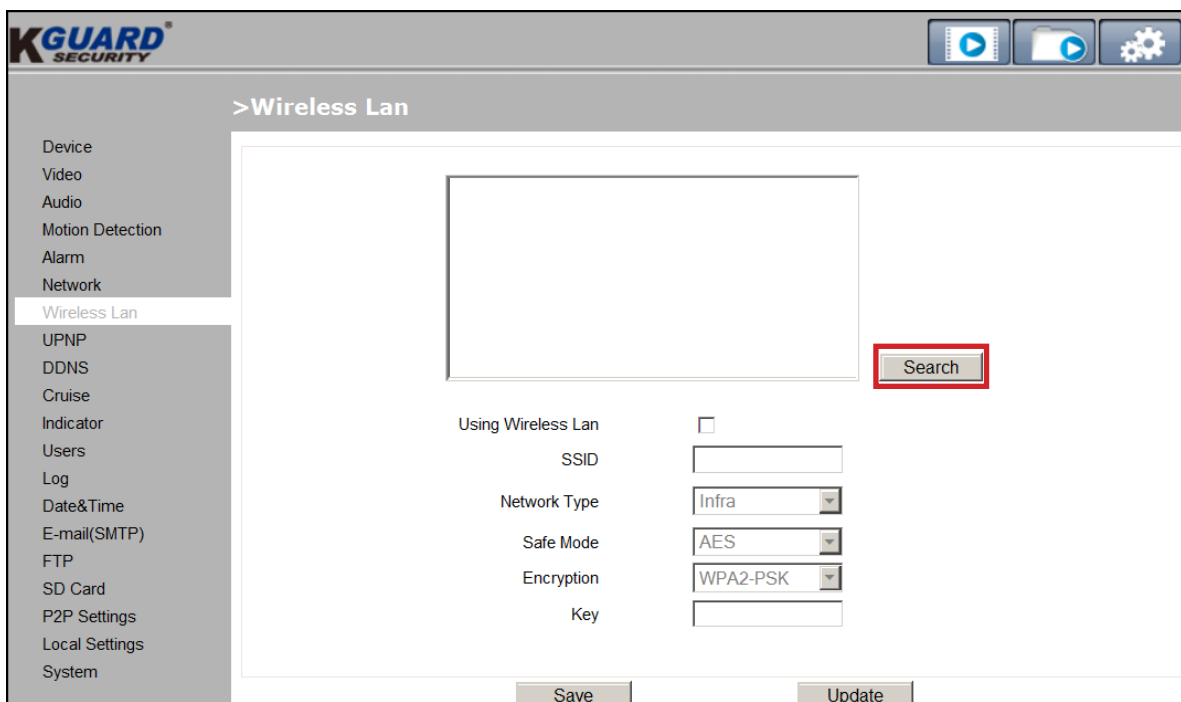
Login ☐ Mobile Phone

Prompt:

1. Case sensitive.
2. Mobile Phone (For Browser that supports Javascript).
3. Please download and complete the installation of Plug-in if your first sign in or sign in does not properly display video.

Load OCX

8. Click  and go to the Wireless LAN tab.
9. Click **Search** to search for wireless router.



KGUARD SECURITY

>Wireless Lan

Device
Video
Audio
Motion Detection
Alarm
Network
Wireless Lan
UPNP
DDNS
Cruise
Indicator
Users
Log
Date&Time
E-mail(SMTP)
FTP
SD Card
P2P Settings
Local Settings
System

Using Wireless Lan ☐

SSID

Network Type Infra

Safe Mode AES

Encryption WPA2-PSK

Key

Search

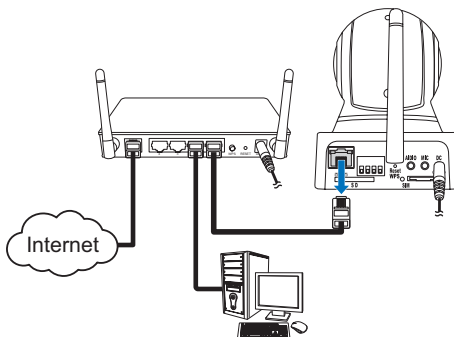
Save Update

Making Connections

10. Click on the router name and modify the following.
 - Check **Using Wireless LAN** option.
 - Enter the wireless router's password in Key field.
11. Click **Save**.

The screenshot shows the KGuard Security web interface. The sidebar on the left lists various settings categories. The main content area is titled '>Wireless Lan'. It features a search bar at the top with the text 'XXX-XX' and a 'Search' button. Below the search bar is a configuration form. The form includes a checkbox labeled 'Using Wireless Lan' which is checked. Below this are several dropdown menus: 'SSID' (set to XXX-XX), 'Network Type' (set to Infra), 'Safe Mode' (set to AES), and 'Encryption' (set to WPA2-PSK). At the bottom of the form is a text field labeled 'Key'. Below the form are two buttons: 'Save' and 'Update'. Red rectangular boxes are drawn around the search bar, the 'Using Wireless Lan' checkbox, the SSID field, the Network Type dropdown, the Safe Mode dropdown, the Encryption dropdown, the Key field, and the Save button.

12. Disconnect the RJ45 Ethernet cable from the camera.



13. Disconnect and connect the power adapter, to restart the camera.
14. When the red status LED (see [“Product Overview” on page 5](#)) turns off, wait for 10 seconds until the Camera boots up and starts rotating.

NOTE: When the red status LED starts blinking with a second interval, it means the wireless network connection is successful.
15. Download **KviewQR** application and view the live view on your mobile devices. See [“Connect to Camera” on page 16](#).

Making Connections

Wired Router/Modem

If you are using a wired router/modem, confirm the type of internet connection you are using and the related network connection parameters with your Internet Service Provider (ISP), to complete the setup.

Dynamic Host Configuration Protocol (DHCP): Select this connection if your camera is connected to a router and DHCP is enabled.

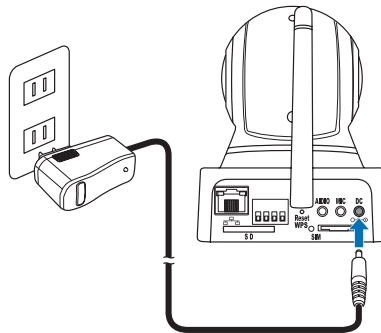
Static IP (Static Address): Select this connection if your camera is directly connected to a DSL modem and your ISP has supplied you with a predefined IP for your Internet connection.

Point-to-Point Protocol over Ethernet (PPPoE): Select this connection if your camera is directly connected to the DSL modem, and your ISP has supplied you with an authentication username and password to the Internet.

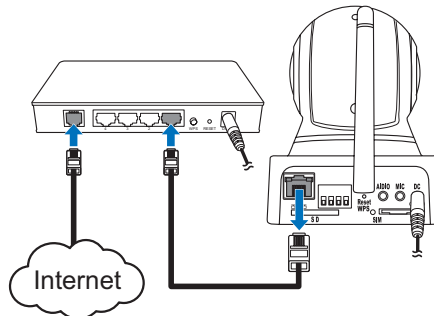
DHCP

To establish a connection from the camera to the wired router using DHCP, perform the following:

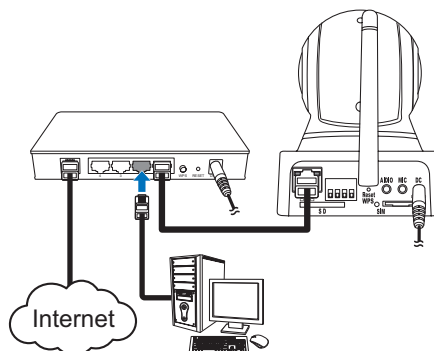
1. Connect the camera to the power socket, using the power adapter.



2. Connect one end of the RJ45 cable (supplied) to the camera and the other end to the wired router.

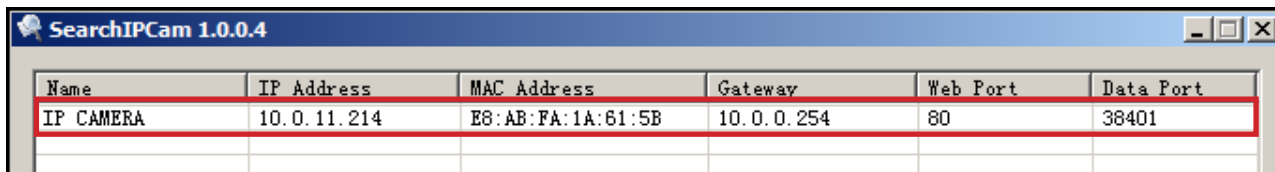


3. Make sure your camera and computer are connected to the same router.



Making Connections

4. Insert the CD (supplied) to your PC's CD drive. Click on [Search IP](#).
5. The program lists the camera by IP address. Double-click on the camera's IP address field.

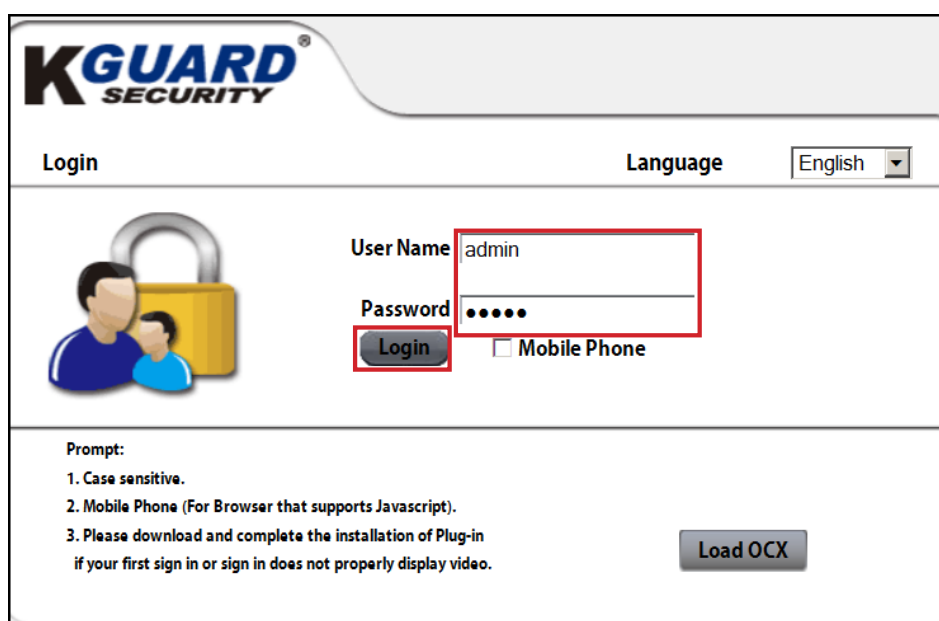


Name	IP Address	MAC Address	Gateway	Web Port	Data Port
IP CAMERA	10.0.11.214	E8:AB:FA:1A:61:5B	10.0.0.254	80	38401

The camera's web client opens in your PC's default web browser.


NOTE: The available functions/menu options may vary depending on the type of web browser. See [“Web Client Browser Compatibility”](#) on page 44.

6. Enter the user name and password. The default user name and password are **“admin”**.
7. Click **Login**.



KGUARD SECURITY

Login Language English



User Name admin

Password

Login ☐ Mobile Phone

Prompt:

1. Case sensitive.
2. Mobile Phone (For Browser that supports Javascript).
3. Please download and complete the installation of Plug-in if your first sign in or sign in does not properly display video.

Load OCX

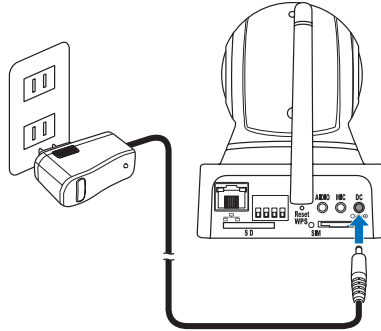
8. Disconnect and connect the power adapter, to restart the camera.
 9. When the red status LED (see [“Product Overview”](#) on page 5) turns off, wait for 10 seconds until the Camera boots up and starts rotating.
- NOTE:** When the red status LED starts blinking with a second interval, it means the wired network connection is successful.
10. Download [KviewQR](#) application and view the live view on your mobile devices. See [“Connect to Camera”](#) on page 16.

Making Connections

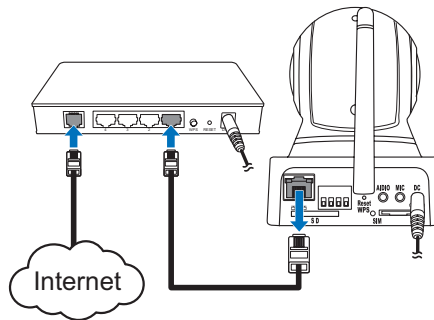
Static IP and PPPoE

To establish a connection from the camera to the wired router or modem with a static IP or PPPoE, perform the following:

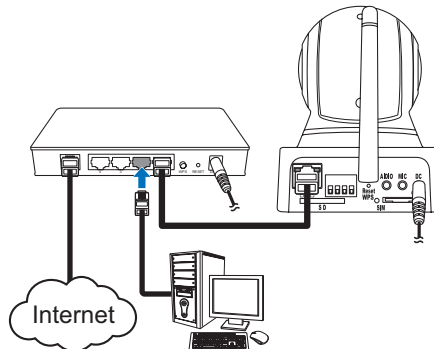
1. Connect the camera to the power socket, using the power adapter.



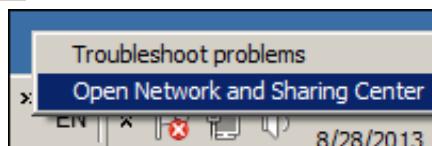
2. Connect one end of the RJ45 cable (supplied) to the camera and the other end to the wired router or modem.



3. Make sure your camera and computer are connected to the same router or modem.

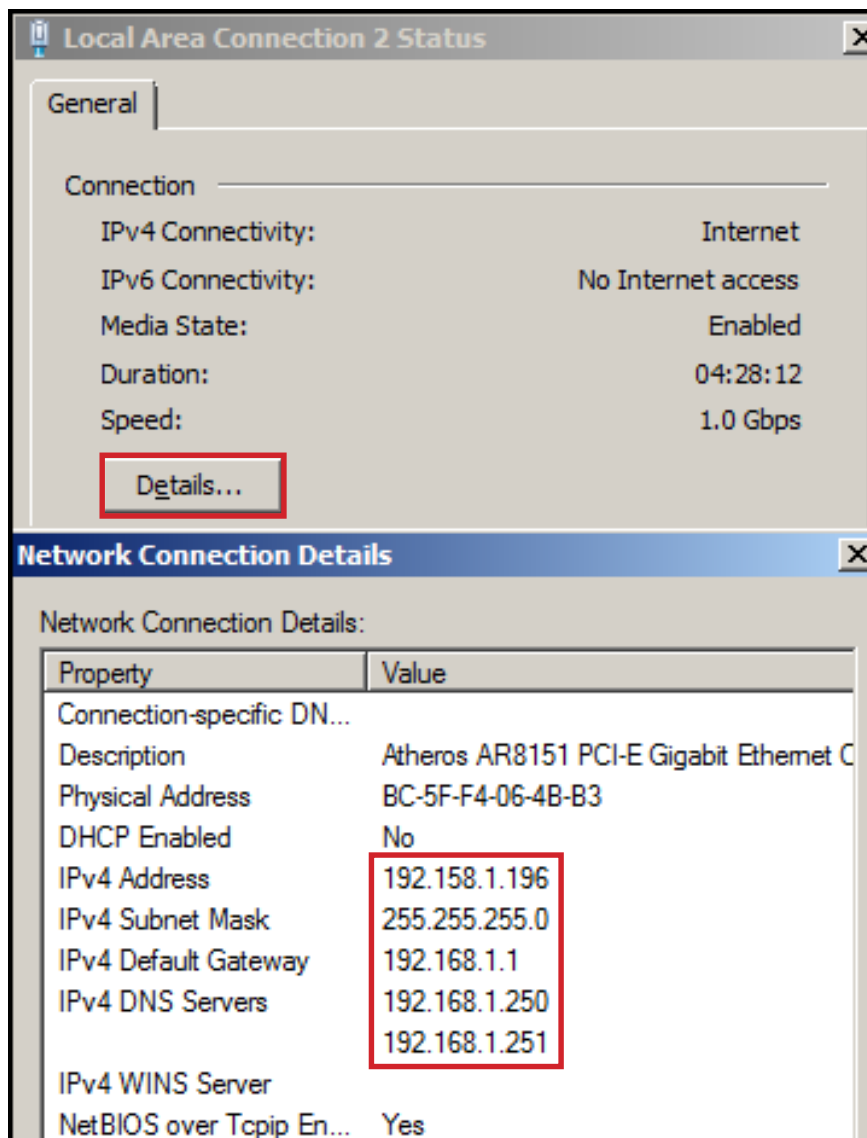


4. Right-click on Network icon () and choose Open Network and Sharing Center on your PC.

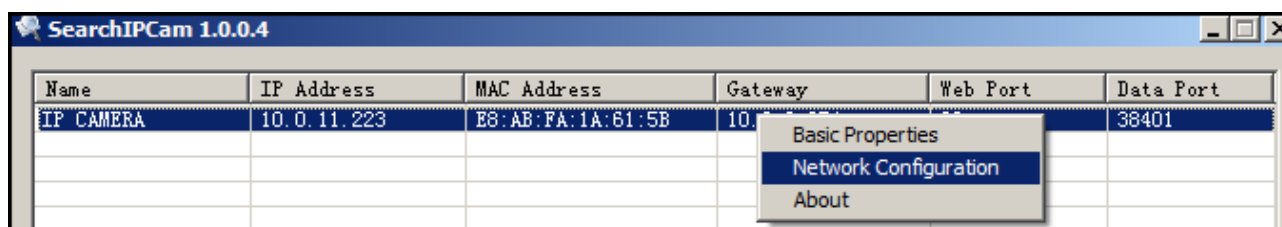


Making Connections

- On Network and Sharing Center click **Local Area Connection Status** > **Details** and write down the network parameters (IP Address, Subnet Mask, Gateway, and DNS Servers).



- Insert the CD (supplied) to your PC's CD drive. Click on [Search IP](#).
- The program lists the camera by IP address. Right-click on the camera's IP address field and select Network Configuration.



- In Network Configuration menu, do the following modifications:
 - Uncheck the **DHCP Server** option.
 - Assign the camera a new IP address by changing the last three digits of the current IP address (0 ~ 255).
 - Enter the Subnet Mask, Gateway, and DNS server address that you just wrote down in [Step 5](#).

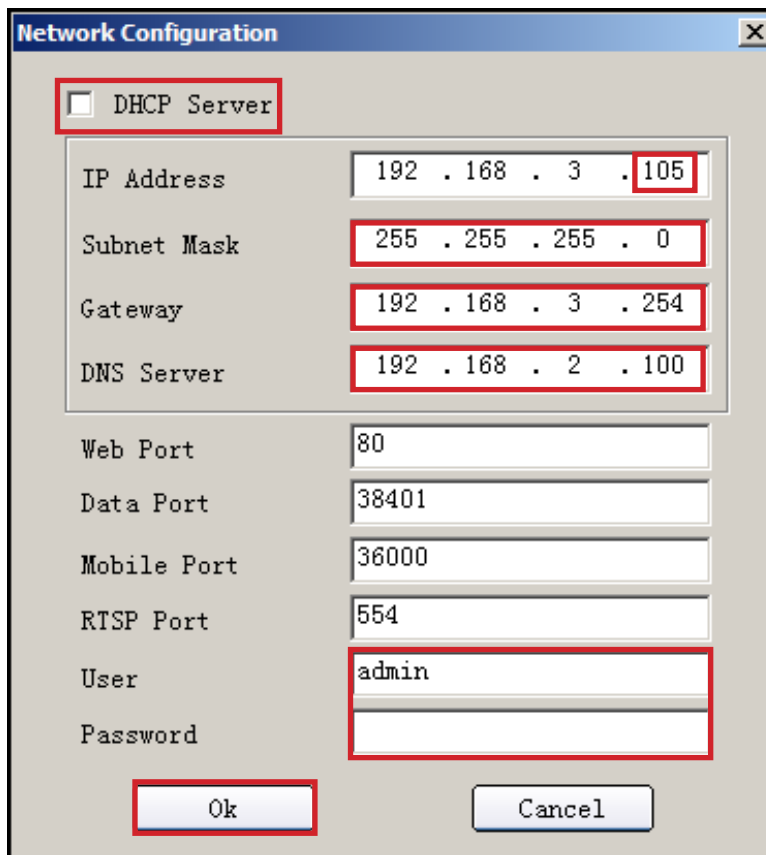
NOTE: You need to enter the DNS server address if you plan to use the camera's web client e-mail service for receiving motion detection/alarm notifications. Verify DNS server address with your ISP if you cannot find it on [Step 5](#).

Making Connections

- Enter the user name and password.

NOTE: The default user name and password are “admin”.

9. Click **OK**.

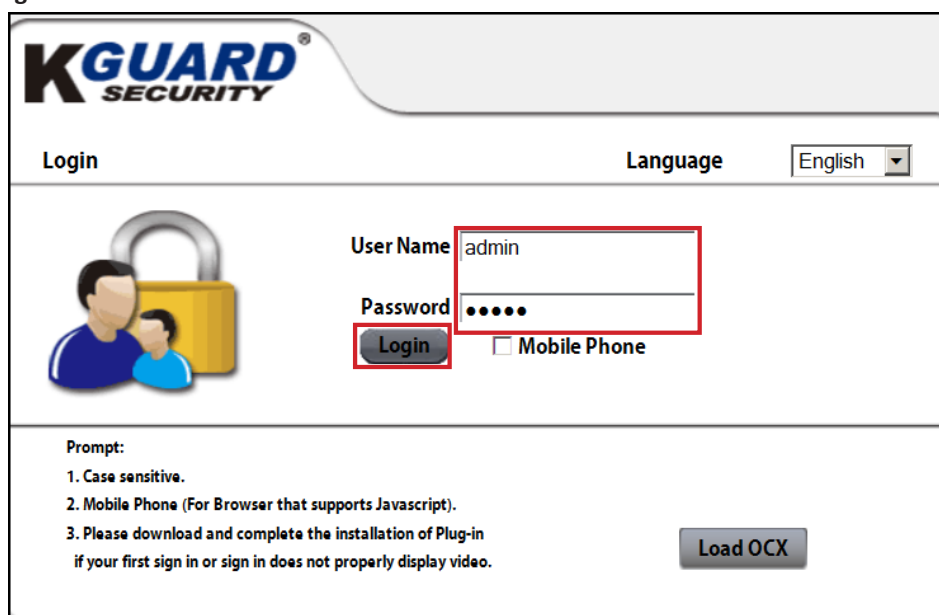


The Network Configuration dialog box is shown with the following fields and values:

Field	Value
<input type="checkbox"/> DHCP Server	
IP Address	192 . 168 . 3 . 105
Subnet Mask	255 . 255 . 255 . 0
Gateway	192 . 168 . 3 . 254
DNS Server	192 . 168 . 2 . 100
Web Port	80
Data Port	38401
Mobile Port	36000
RTSP Port	554
User	admin
Password	


Buttons: **Ok**, **Cancel**

10. Wait for a minute until the camera’s IP address is listed on the screen.
11. Double-click on the camera’s IP address field to open the camera’s web client on your PC’s default web browser.
12. Enter the user name and password.
NOTE: The default user name and password are “admin”.
13. Click **Login**.



The KGuard Security Login page is shown with the following elements:

- Language:** English
- User Name:** admin
- Password:** (masked with dots)
- Login** button
- ☐ Mobile Phone
- Prompt:**
 - 1. Case sensitive.
 - 2. Mobile Phone (For Browser that supports Javascript).
 - 3. Please download and complete the installation of Plug-in if your first sign in or sign in does not properly display video.
- Load OCX** button

14. Click  and go to the Network tab.

Making Connections

15. On Network screen, do the following modifications:
 - Depending on the Internet connection you are using, select **Static Address** or **PPPoE** as the network type.
 - Do the necessary modifications to the network parameters.
16. Click **Save**.

The screenshot shows the KGUARD SECURITY web interface for network configuration. On the left is a sidebar menu with options: Device, Video, Audio, Motion Detection, Alarm, Network (selected), Wireless Lan, UPNP, DDNS, Cruise, Indicator, Users, Log, Date&Time, E-mail(SMTP), FTP, SD Card, P2P Settings, Local Settings, and System. The main area is titled '>Network' and contains a form with the following fields:

Network Type	Static Address
Media Port	Static Address
Web Port	Dynamic Address
Phone Port	36000
RTSP Port	554
IP Address	10.0.100.187
Subnet Mask	255.255.0.0
Gateway	10.0.0.254
DNS Server	10.0.0.251
MAC Address	E8:AB:FA:1A:EA:67

At the bottom of the form are two buttons: 'Save' (highlighted with a red box) and 'Update'.

17. Disconnect and connect the power adapter, to restart the camera.
 18. When the red status LED (see “[Product Overview](#)” on page 5) turns off, wait for 10 seconds until the Camera boots up and starts rotating.
- NOTE:** When the red status LED starts blinking with a second interval, it means the wired network connection is successful.

Connect to Camera

Making Connections

When the network connection to the camera is complete, use the methods described in this section to start reviewing the remote live view.

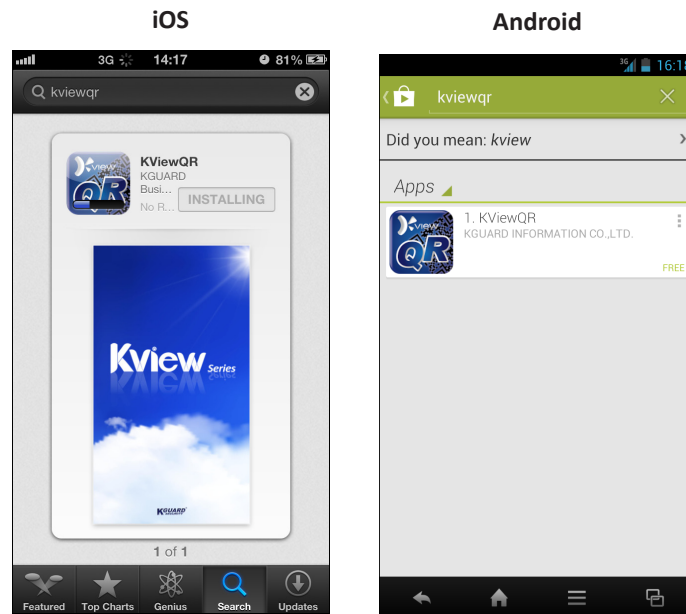
P2P user name: admin





P2P default password: 123456

Using a Portable Device

To access remotely your camera from a smart phone/pad, perform the following:

1. Open the App Store (iOS) or Play Store (Android).
2. Search for and install **KviewQR** application.




3. Open **KviewQR** application () and tap  (iOS) or tap  (Android) to add a device.
4. To identify the camera, use one of the following options:
 - Use a bar code scanner to identify the camera. Do the following:
 - a. Tap on the bar code () (iOS) or **Scan** (Android) to open the bar code scanner.
 - b. Scan the bar code on camera.

NOTE: To scan the bar code, aim your portable device's camera at the bar code so that the entire bar code is visible on the screen.



- Manually enter the 20-symbol QR Code (GUID) on the bar code label to the QR ID field in **KviewQR**.

NOTE: This QR Code (GUID) can also be found on the camera's web client: click  > **P2P Settings** > **GUID**.

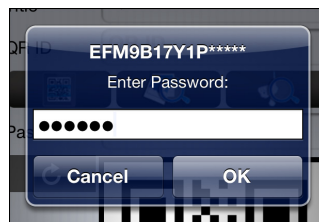
Making Connections



5. Do the following:

iOS devices:

- a) Enter the default camera password: "123456".
- b) Tap **OK**.



- c) Change the device name if necessary.
- d) Tap **Save**.

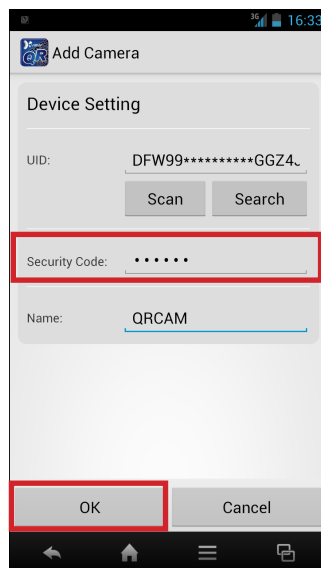


Android devices:

- a) Enter the default camera password: "123456" and change the device name if necessary.

Making Connections

b) Tap **OK**.




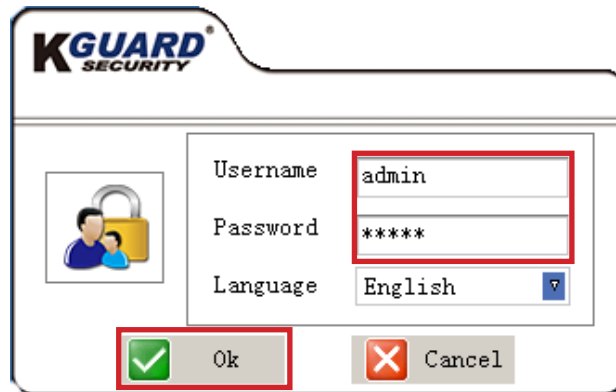
6. On Devices screen, tap camera to start viewing the live video from the camera.

Using a PC

Making Connections

To access remotely your camera from a PC, follow the steps:

1. Insert the CD (supplied) to your PC's CD drive.
2. Click on **PC Setup**.
3. Follow the on-screen instructions and install the application on your PC.
4. Double-click  to open the **KGard_IPCamClient**.
5. Enter the user name and password.
NOTE: The default user name and password are "admin".
6. Click **OK**.



For more details, please refer to the IPCamClient User Manual in supplied CD.

Install Camera

Making Connections

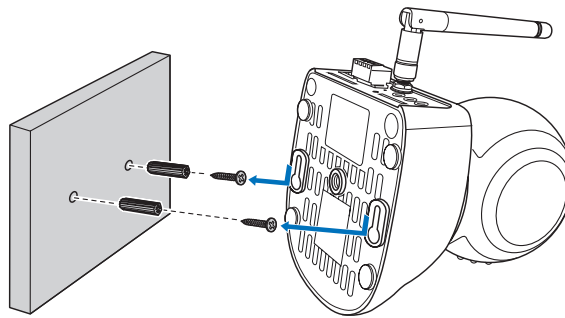
Follow the instructions in this section to install the camera and perform the cable connections.

Before Installation

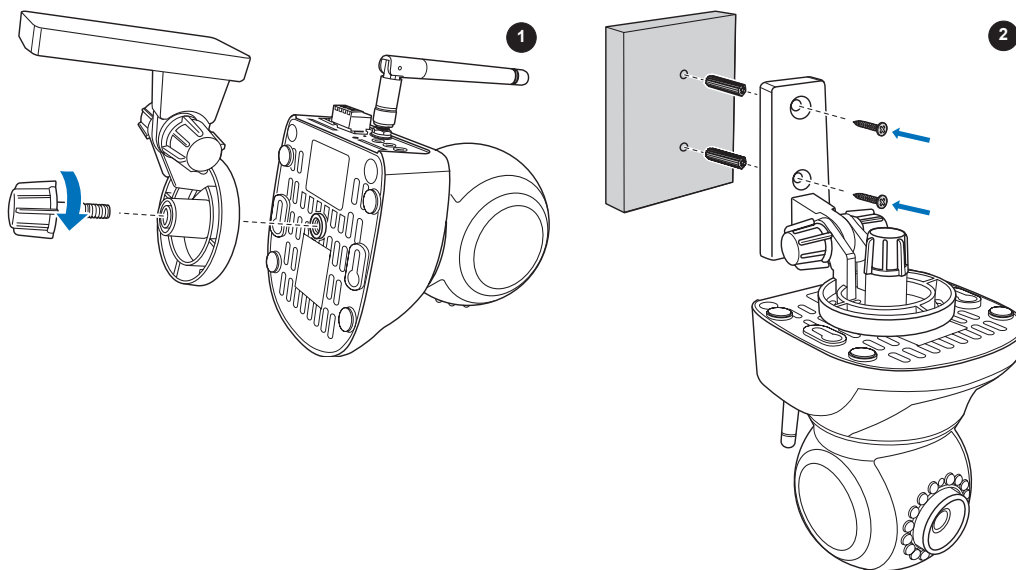
It is recommended to complete the camera network connection (Camera to Router) and portable device connection (Smart Phone/Pad to Camera) prior mounting the camera.

Installation Procedures

Fixed Mounting



Dynamical Mounting



Web Client

Use Web Client to remotely access the Camera and configure the settings of Camera.

Before accessing Web Client for first time:

- Ensure that the Network settings of the Camera is properly configured. See “[Network Configuration](#)” on page 7.
- Ensure that the computer has a web browser, such as Internet Explorer or Safari, installed.

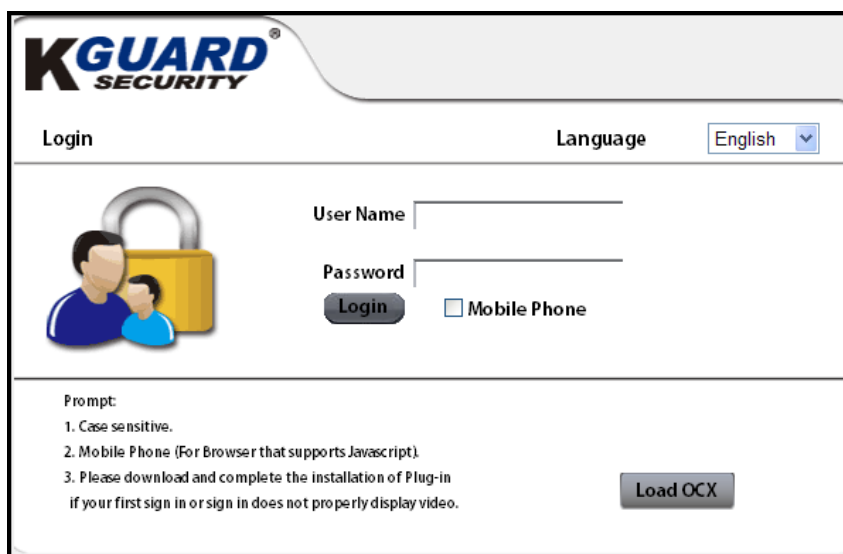
The available functions/menu options may vary depending on the type of web browser. See “[Web Client Browser Compatibility](#)” on page 44.

Log In

Insert the CD (supplied) to your PC’s CD drive, and click **IP Search**. Ensure your computer and camera are connected to the same router or modem.

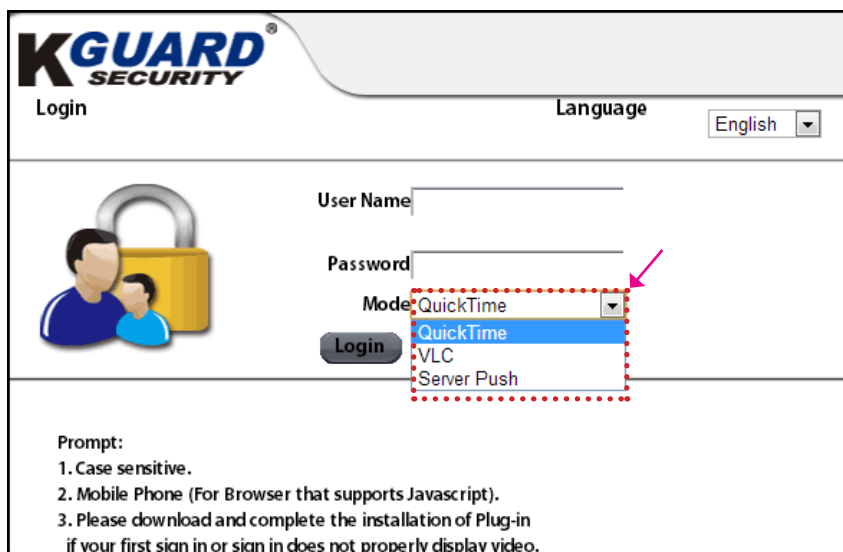
The program lists the camera by IP address. Double-click on the camera’s IP address field.

Then enter the login name and password. Click **Login** to login.



NOTE:


- The default user name and password are “**admin**”.
- If you log in IE browser for the first time or the live view is not properly display on the screen, click **Load OCX**.
- If you log in web browser other than Internet Explorer, select the appropriate decode mode:



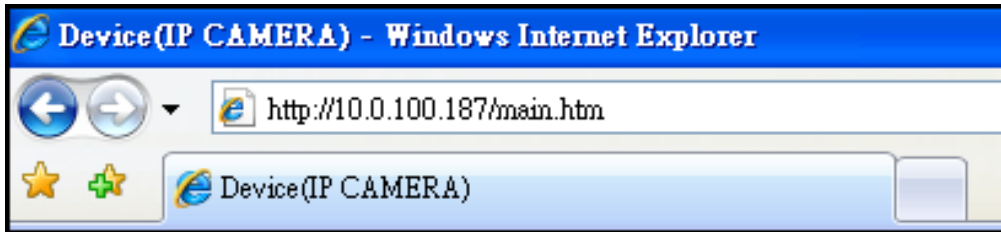
- Select **QuickTime** when using Safari.
- Select **VLC** when using Chrome/Firefox.
- Select **Server Push** when using other type of web browser.

Web Client

OR

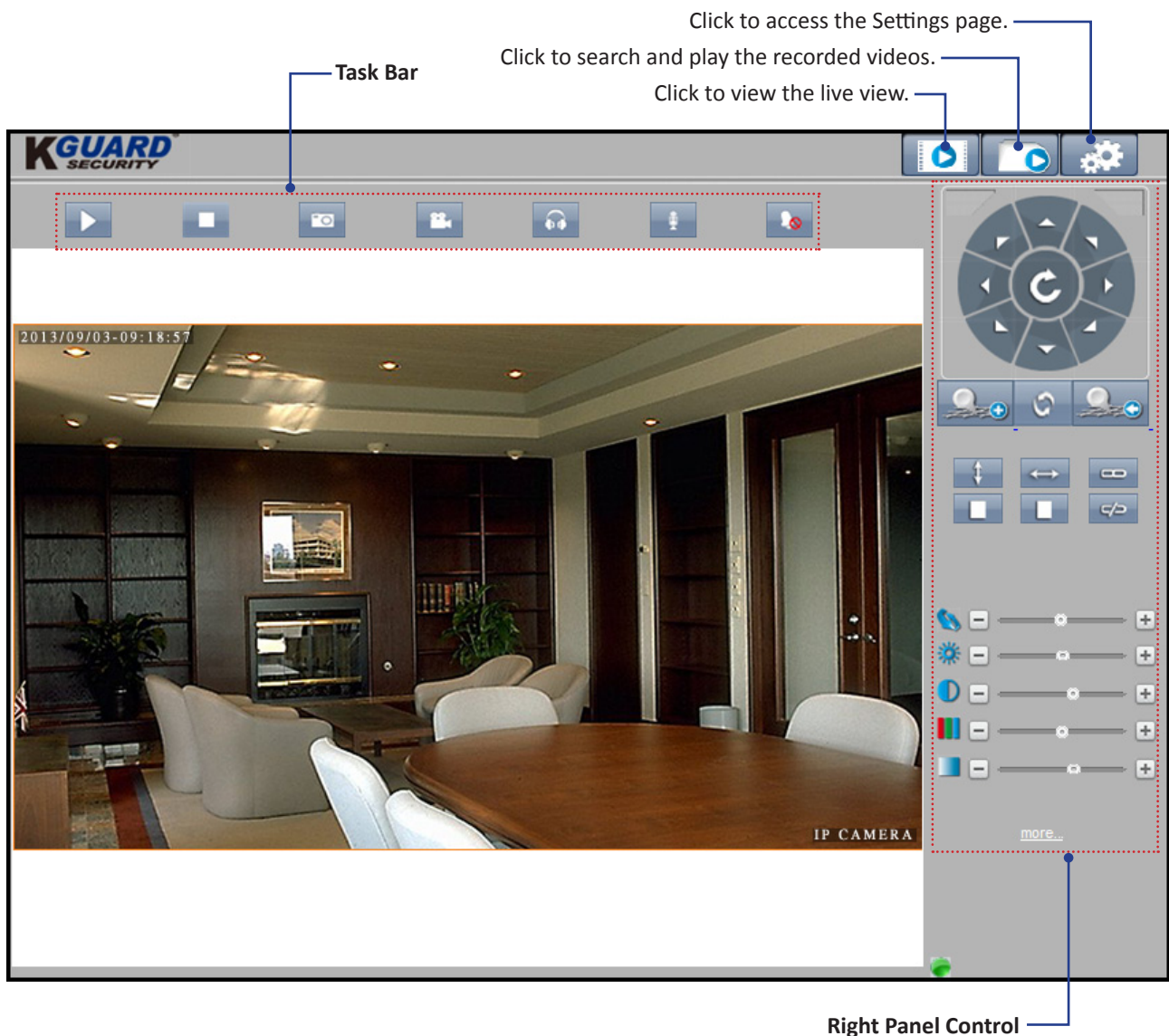
Open your computer web browser and enter the domain name you set for the camera or the designated DDNS address in the URL box. You can find the designated DDNS address on the sticker or  > **DDNS** > **DDNS Hostname**.

NOTE: : Be sure to perform port forwarding first before browsing using the domain name or designated DDNS address.



Main Screen

After you login to Web Client, the Live screen appears.






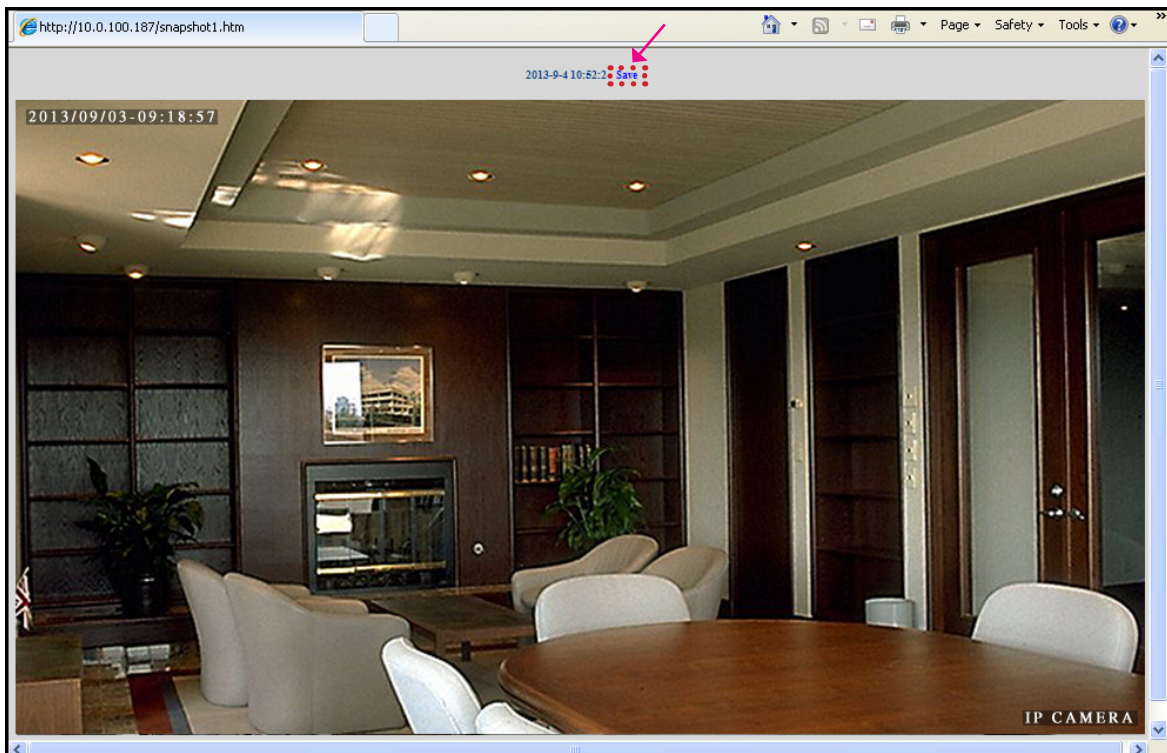
Web Client

Task Bar







To access the common functions, click the respective icon shown on the task bar.



- Click  to play the live video.
- Click  to stop the live video.
- Click  to take a snapshot.
The snapshot appears on the screen.



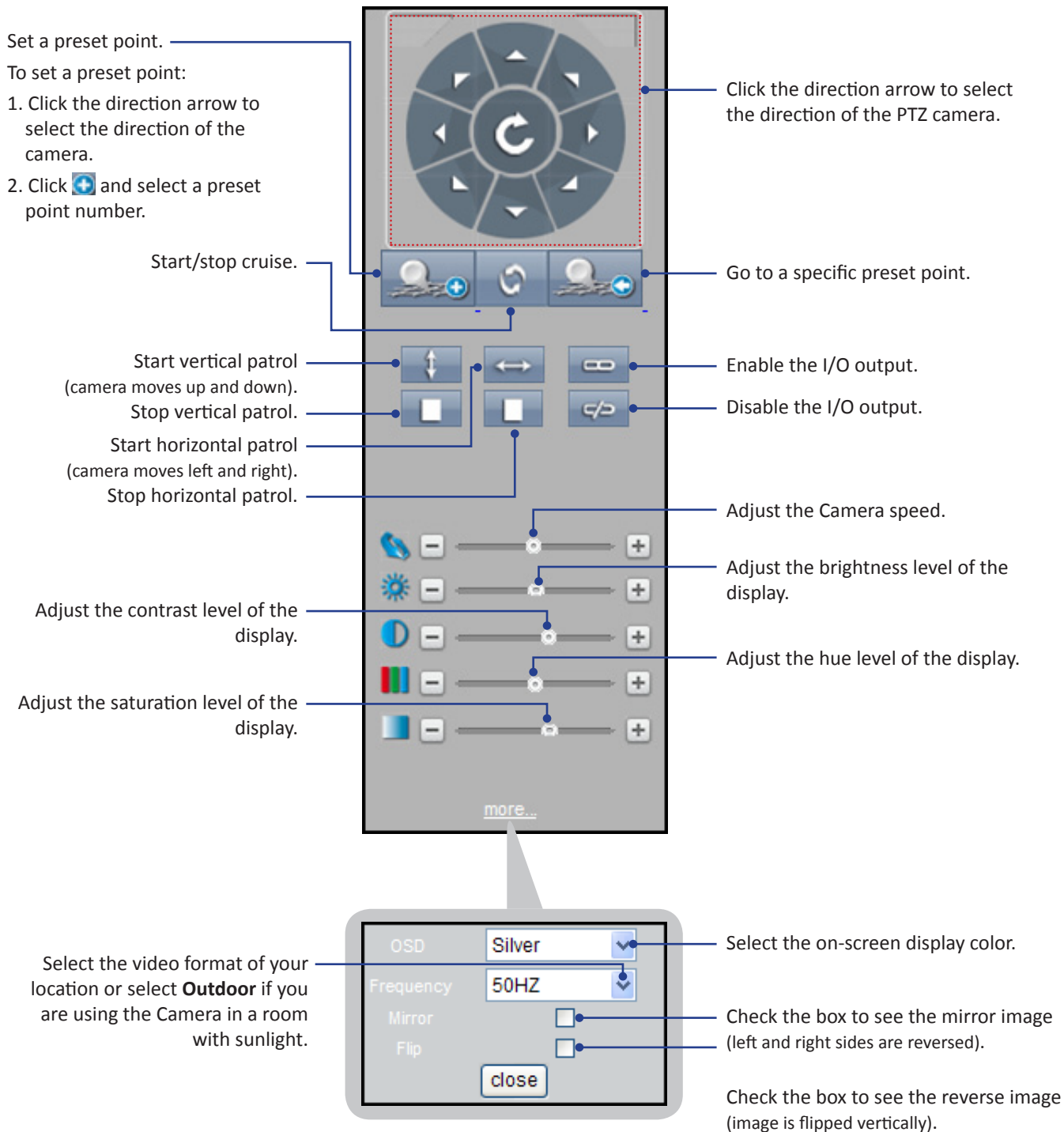
Click **Save** to save the picture on your computer.

- Click  to start record manually. The video recording starts. Click  to stop the manual recording.
- Click  to enable the audio function. You can hear the live audio from camera via PC if the audio setting is set to ON. Click  to disable the audio function.
- Click  to enable the talk function. You can talk between PC and camera if audio device connected. Click it again, will stop the talk function.
- Click  to stop the alarm manually.

Web Client

Right Panel Control

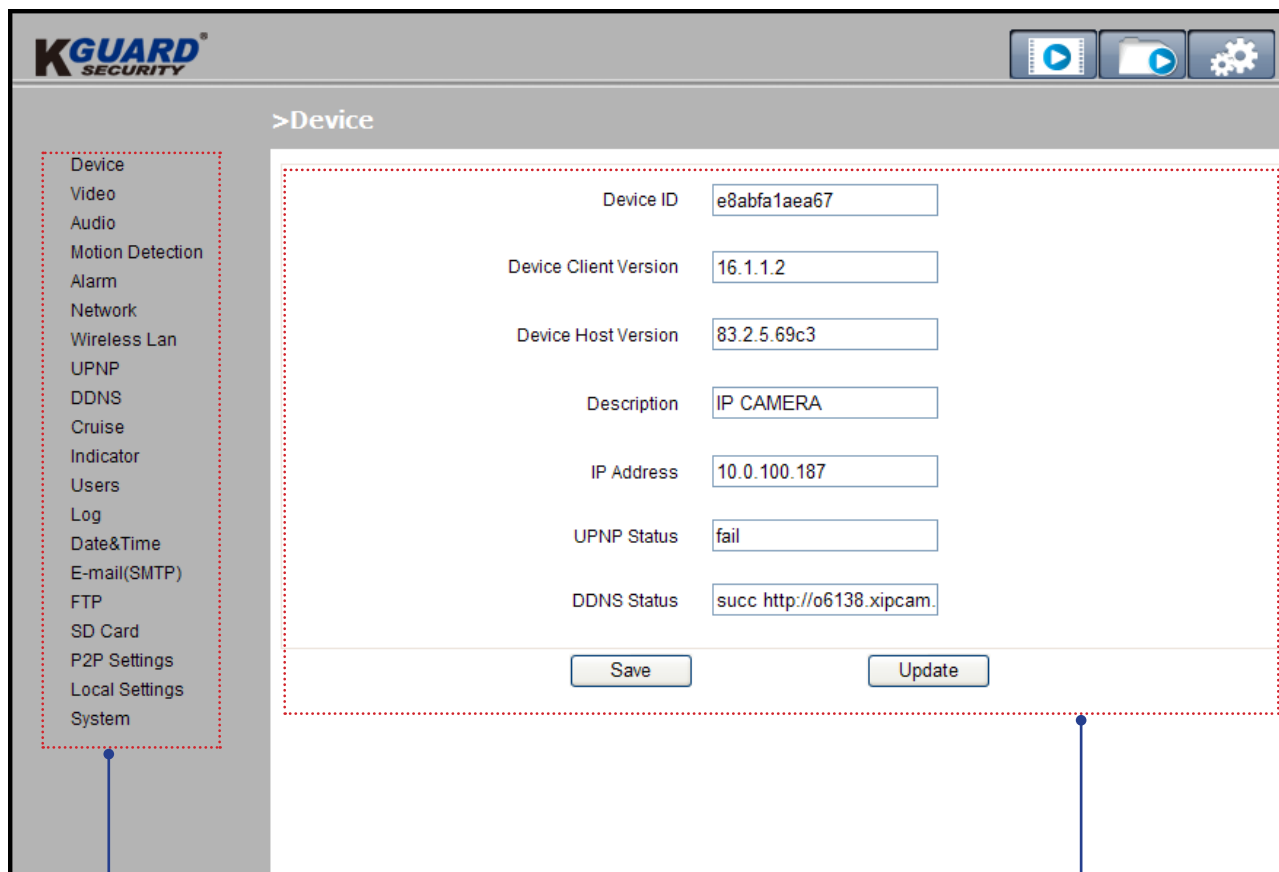
You can use the Panel Control to access the PTZ Control panel and customize the display settings.



Web Client

Configure the Camera Settings

Click  tab to remotely configure the Camera.



The screenshot shows the KGUARD Security Web Client interface. The top bar includes the KGUARD logo and three icons: a play button, a folder, and a gear. The main content area is titled ">Device". On the left is a sidebar menu with the following items: Device, Video, Audio, Motion Detection, Alarm, Network, Wireless Lan, UPNP, DDNS, Cruise, Indicator, Users, Log, Date&Time, E-mail(SMTP), FTP, SD Card, P2P Settings, Local Settings, and System. The main area displays the following settings:

Field	Value
Device ID	e8abfa1aea67
Device Client Version	16.1.1.2
Device Host Version	83.2.5.69c3
Description	IP CAMERA
IP Address	10.0.100.187
UPNP Status	fail
DDNS Status	succ http://o6138.xipcam.

At the bottom of the settings area are two buttons: "Save" and "Update".

Annotations:

- A blue line points from the "Main menu" label to the sidebar menu.
- A blue line points from the "Menu option/setting" label to the "Update" button.

NOTE:

When all settings are complete, do the following:

- Click **Save** to save all the settings.
- Click **Update** to refresh the settings.

Web Client

Device

View the Camera information including the device ID, Client version, and Host version, IP address, UPnP status, and DDNS status.

Device ID	<input type="text" value="e8abfa1aea67"/>
Device Client Version	<input type="text" value="16.1.1.2"/>
Device Host Version	<input type="text" value="83.2.5.69c3"/>
Description	<input type="text" value="IP CAMERA"/>
IP Address	<input type="text" value="10.0.100.187"/>
UPnP Status	<input type="text" value="fail"/>
DDNS Status	<input type="text" value="succ http://o6138.xipcam."/>
<div><input type="button" value="Save"/> <input type="button" value="Update"/></div>	

The default device name is “IP CAMERA”. To customize the camera name, enter the new name in *Description*.

Video

Customize the video stream settings.

NOTE: To ensure a better video streaming, select the appropriate *Initial Stream* (**Main-Stream** or **Sub-stream**) according to your network bandwidth.

Main-Stream	
Resolution	<input type="text" value="1280*720"/>
Frame Rate	<input type="text" value="25"/>
Bit Rate	<input type="text" value="2Mb/s"/>
Image Quality	<input type="text" value="Standard"/>
Sub-Stream	
Resolution	<input type="text" value="640*368"/>
Frame Rate	<input type="text" value="10"/>
Bit Rate	<input type="text" value="384Kb/s"/>
Image Quality	<input type="text" value="Standard"/>
Initial-Stream	
<input checked="" type="checkbox"/> Main-Stream	<input type="checkbox"/> Sub-Stream
<div><input type="button" value="Save"/> <input type="button" value="Update"/></div>	

Resolution: Select the video stream resolution.

Web Client

Frame Rate: Select the video stream frame rate.

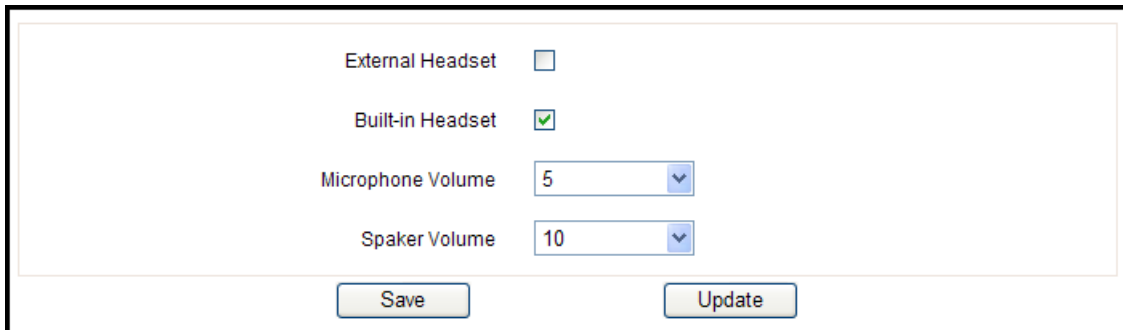
Bit Rate: Select the video stream bit rate.

NOTE: Higher bit rate produce better quality images, but occupy more bandwidth.

Image Quality: Select the video stream quality.

Audio

Customize the audio settings.

The interface shows four settings: 'External Headset' with an unchecked checkbox, 'Built-in Headset' with a checked checkbox, 'Microphone Volume' with a dropdown menu showing '5', and 'Speaker Volume' with a dropdown menu showing '10'. At the bottom are 'Save' and 'Update' buttons.

External Headset ☐

Built-in Headset ☒

Microphone Volume 5

Speaker Volume 10

Save Update

External Headset: Check this option to use the external microphone.

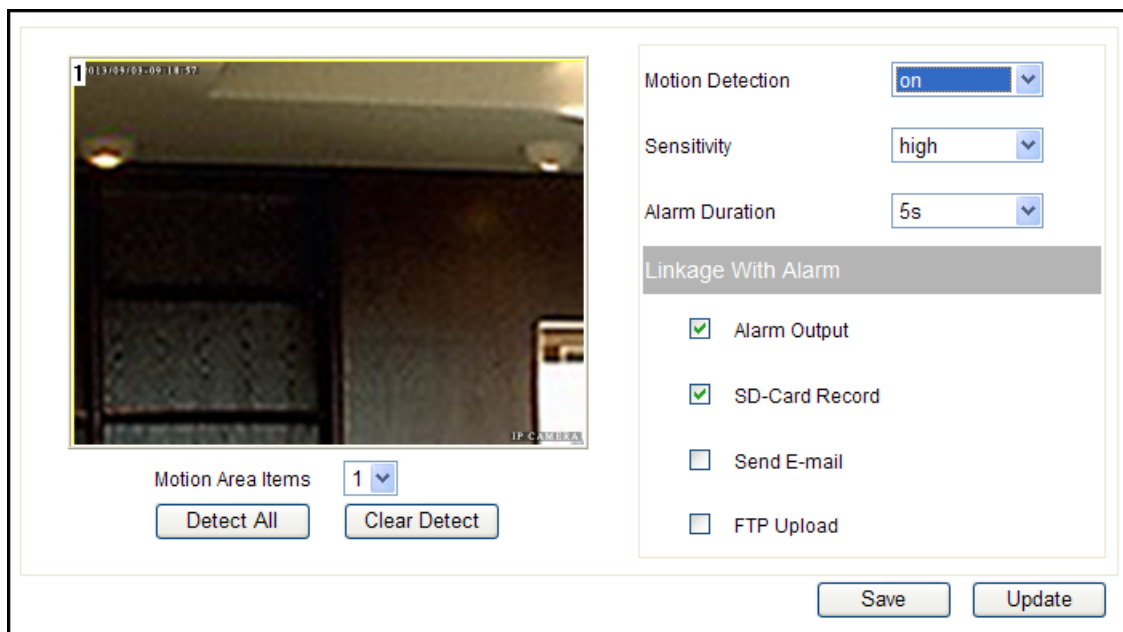
Built-in Headset: Check this option to use the built-in microphone.

Microphone Volume: Adjust the microphone volume level.

Speaker Volume: Adjust the speaker volume level.

Motion Detection

Customize the motion recording settings.

The interface is split into two main sections. The left section features a live video feed of a hallway with a timestamp '01/13/09/03-09:18:57' in the top left corner. Below the video is a 'Motion Area Items' dropdown set to '1', and two buttons: 'Detect All' and 'Clear Detect'. The right section contains settings for 'Motion Detection' (set to 'on'), 'Sensitivity' (set to 'high'), and 'Alarm Duration' (set to '5s'). Below these is a 'Linkage With Alarm' section with four options: 'Alarm Output' (checked), 'SD-Card Record' (checked), 'Send E-mail' (unchecked), and 'FTP Upload' (unchecked). At the bottom right are 'Save' and 'Update' buttons.

01/13/09/03-09:18:57

Motion Detection on

Sensitivity high

Alarm Duration 5s

Linkage With Alarm

☒ Alarm Output

☒ SD-Card Record

☐ Send E-mail

☐ FTP Upload

Motion Area Items 1

Detect All Clear Detect

Save Update

Motion Detection: Select **on** to enable motion detection alarm function.

Sensitivity: Select the motion detection sensitivity rate.

Alarm Duration: Set the alarm duration.

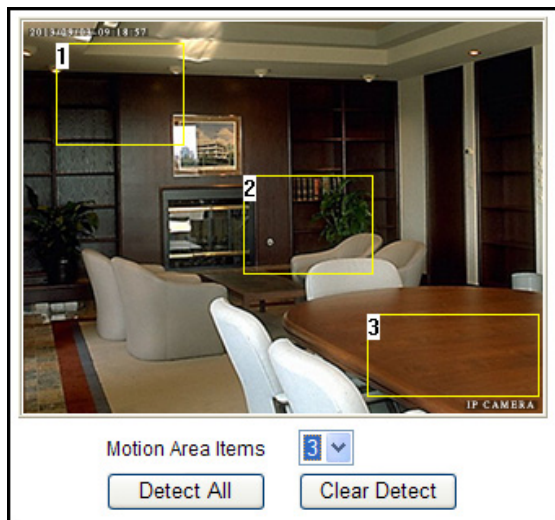
Web Client

Linkage With Alarm: Check this box to activate the following action when the motion is detected.

- **Alarm Output:** Check this option to enable alarm output. See [“Alarm” on page 29](#).
- **SD-Card Record:** Check this option to save the recorded videos directly into the SD card. See [“SD Card” on page 38](#).
- **Send E-mail:** Check this option to send a notification e-mail. See [“E-mail\(SMTP\)” on page 36](#).
- **FTP Upload:** Check this option to upload the snapshots to the FTP server. See [“FTP” on page 37](#).

Set Motion Detection Area

You can specify up to 3 areas for motion detection alarm. By default, the whole screen is marked for motion detection.



To mark the specific area, select the area number in *Motion Area Items*, and drag the mouse to highlight the scope to mark the area (yellow block) for motion detection.

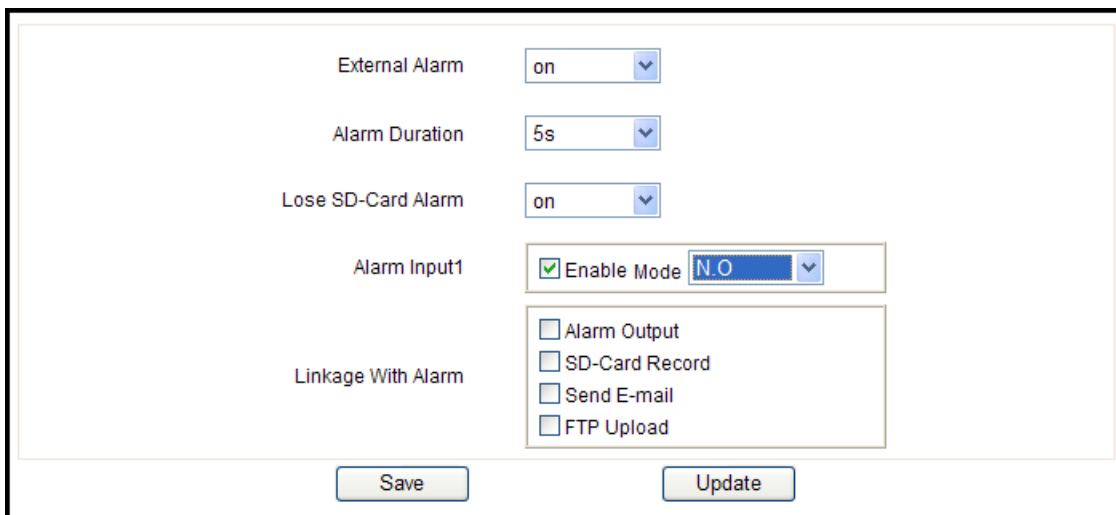
Select **Detect All** to set the whole screen as the motion detection armed zone.

Select **Clear Detect** to clear all marked motion detection zone.

NOTE: To avoid getting false triggers, it is recommended to set the motion detection area at an appropriate location such as door, window, etc.

Alarm

Customize the sensor alarm settings.



External Alarm: Select **on** to enable external alarm function.

Web Client

Alarm Duration: Set the external alarm output duration.

Lose SD-Card Alarm: Select **on** to automatically trigger the alarm if the Camera cannot detect the memory card.

Alarm Input1: Check the **Enable** box to enable alarm input. Select the alarm type in *Mode*.

NOTE: N.O. = Normal open; N.C. = Normal close.

Linkage With Alarm: Check this box to activate the following action when the alarm is triggered.

- **Alarm Output:** Check this option to enable alarm output.
- **SD-Card Record:** Check this option to save the recorded videos directly into the SD card. See “SD Card” on page 38.
- **Send E-mail:** Check this option to send a notification e-mail. See “E-mail(SMTP)” on page 36.
- **FTP Upload:** Check this option to upload the snapshots to the FTP server. See “FTP” on page 37.

Network

Configure how the Camera connects to the network. This Camera provides three network connection options: Static IP (Static Address), PPPoE, and DHCP (Dynamic Address).

Network Type: Select the type of network connection you are using.

- **Static Address:** Select this connection if your camera is directly connected to a DSL modem and your ISP has supplied you with a predefined IP for your Internet connection.

The screenshot shows the Network configuration page with the Network Type set to Static Address. The fields are as follows:

Field	Value
Network Type	Static Address
Media Port	38401
Web Port	80
Phone Port	36000
RTSP Port	554
IP Address	10.0.100.187
Subnet Mask	255.255.0.0
Gateway	10.0.0.254
DNS Server	10.0.0.251
MAC Address	E8:AB:FA:1A:EA:67

At the bottom, there are two buttons: Save and Update.

- **PPPoE:** Select this connection if your camera is directly connected to the DSL modem, and your ISP has supplied you with an authentication username and password to the Internet.

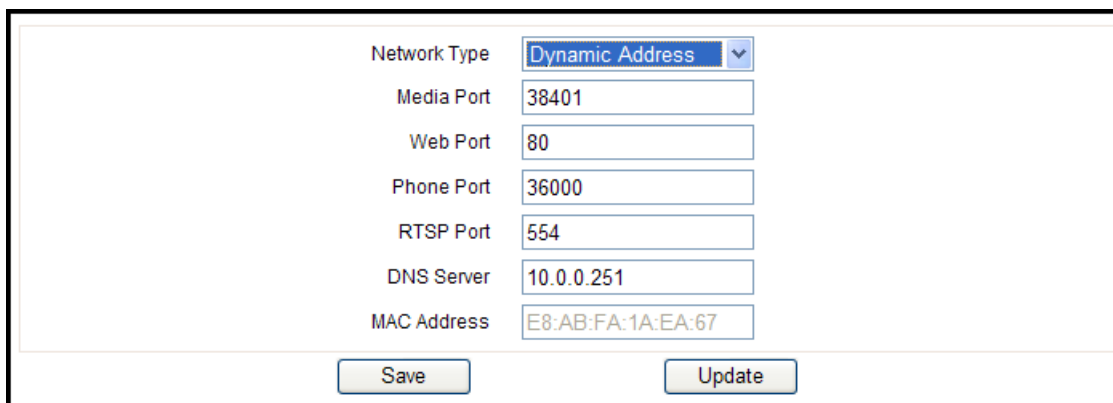
The screenshot shows the Network configuration page with the Network Type set to PPPoE. The fields are as follows:

Field	Value
Network Type	PPPoE
Media Port	38401
Web Port	80
Phone Port	36000
RTSP Port	554
Enable PPPoE	open
PPPoE User	abc
PPPoE Password	•••
PPPoE IP Address	153.24.65.1
DNS Server	10.0.0.251
MAC Address	E8:AB:FA:1A:EA:67

At the bottom, there are two buttons: Save and Update.

Web Client

- **DHCP:** Select this connection if your camera is connected to a router and DHCP is enabled.



The screenshot shows a configuration window with the following fields and values:

Field	Value
Network Type	Dynamic Address (dropdown)
Media Port	38401
Web Port	80
Phone Port	36000
RTSP Port	554
DNS Server	10.0.0.251
MAC Address	E8:AB:FA:1A:EA:67

At the bottom of the form are two buttons: "Save" and "Update".

Media Port: Enter the port number that the device will use to send Camera command and video stream.

Web Port: Enter the port number that you will use to log in to the device via the web.

Phone Port: Enter the monitoring port of your mobile device. The port range is between 1024 to 65535.

NOTE: The **Phone Port** specified here must be the same port on your mobile device.

RTSP Port: Enter the RTSP port specified in the device.

IP Address: Enter the static IP address.

Subnet Mask: Enter the subnetwork IP address.

Gateway: Enter the gateway IP address.

Enable PPPoE: Select **open** to use PPPoE network connection.

PPPoE User: Enter the user name that your ISP has supplied.

PPPoE Password: Enter the password that your ISP has supplied.

PPPoE IP Address: Enter the IP address that your ISP has supplied.

DNS Server: Enter the DNS server address.

MAC Address: View the Camera MAC address.

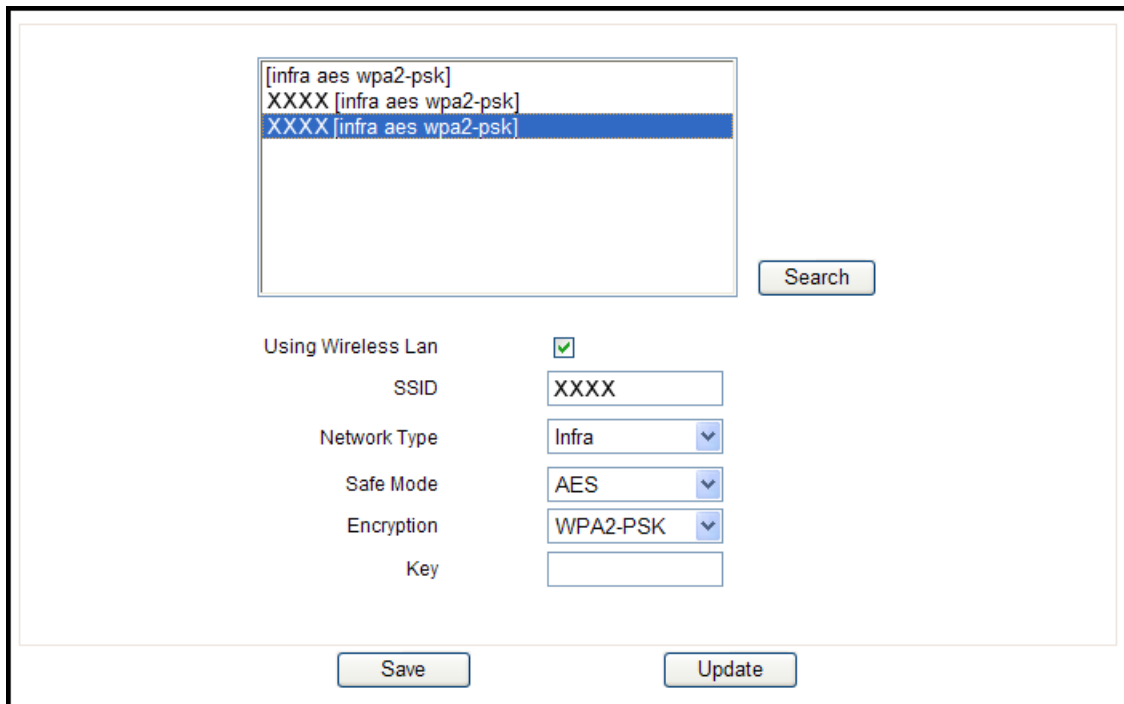
NOTE:

- Obtain these information from your network administrator or your Internet Service Provider (ISP).
- If you cannot use either of the two default media/web ports, 80 or 38401, the specified port may be occupied by other programs or it is being blocked by your service provider. Enter other port number. In this case, you need to add the port number after the IP address. For example, if you set the Web Port as 85, you need to enter the IP address as "192.168.3.103:85".

Web Client

Wireless Lan

Configure wireless network settings.



The screenshot shows a web interface for configuring wireless LAN settings. At the top, there is a search box containing three entries: "[infra aes wpa2-psk]", "XXXX [infra aes wpa2-psk]", and "XXXX [infra aes wpa2-psk]", with the second entry selected. To the right of the search box is a "Search" button. Below the search box, the "Using Wireless Lan" checkbox is checked. The "SSID" field contains "XXXX". The "Network Type" dropdown menu is set to "Infra". The "Safe Mode" dropdown menu is set to "AES". The "Encryption" dropdown menu is set to "WPA2-PSK". The "Key" field is empty. At the bottom, there are "Save" and "Update" buttons.

Search: Click to search for available wireless router(s).

Using Wireless Lan: Check the box to use Wi-Fi function.

SSID: Enter the router name.

Network Type: Select the type of wireless network connection you are using.

NOTE: Select **Adhoc** if you using point-to-point transmission AP. Otherwise, select **Infra**.

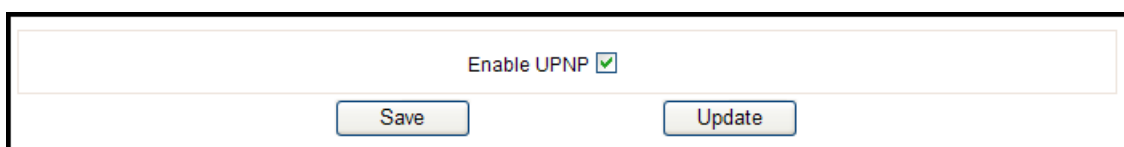
Save Mode: Select the network security type.

Encryption: Select the encryption type.

Key: Enter the password as you set in your router.

UPNP

UPnP makes configuring your network easier and faster. To use the UPnP setting on the device, your router must support UPnP and the feature is enabled.



The screenshot shows a web interface for configuring UPnP settings. It features a single checkbox labeled "Enable UPNP" which is checked. Below the checkbox are "Save" and "Update" buttons.

Click the **Enable UPNP** box to enable the UPnP function.

NOTE: Make sure UPnP on router is enabled.

Web Client

DDNS

DDNS (Dynamic DNS) is a service that registers a domain name and the floating IP address with a DDNS server so that the domain name can be routed to the IP address even if the IP is changed in a dynamic IP system.

Enable DDNS: open

DDNS Service Type: Factory DDNS

DDNS User: o6138

DDNS Password: ●●●

DDNS Hostname: o6138.xipcam.com

Save Update

Enable DDNS: Select open to enable the DDNS function.

DDNS Service Type: Select DDNS server type.

DDNS User: Enter the user name you registered on DDNS server.

DDNS Password: Enter the password you registered on DDNS server.

DDNS Hostname: Enter the domain name you registered on DDNS server.

NOTE:

- To apply a third party DDNS server provider such as a DynDNS domain name, visit <http://dyn.com/dns>. Follow the on-screen instructions to complete the account setup.
- If you are using the manufacturer DDNS (**Factory DDNS**), the DDNS User, Password, and Hostname options will be generated automatically.

Cruise

Customize the Camera cruise settings.

Cruise List

- null [invalid]
- null [invalid]
- null [invalid]
- null [invalid]
- null [invalid]
- null [invalid]
- null [invalid]
- null [invalid]
- null [invalid]
- null [invalid]

Cruise Information

Name:

Status: ☐

Serial Number	Preset	Residence time	Speed
<input type="checkbox"/> 1	1 [valid]	0	0
<input type="checkbox"/> 2	1 [valid]	0	0
<input type="checkbox"/> 3	1 [valid]	0	0
<input type="checkbox"/> 4	1 [valid]	0	0
<input type="checkbox"/> 5	1 [valid]	0	0
<input type="checkbox"/> 6	1 [valid]	0	0
<input type="checkbox"/> 7	1 [valid]	0	0
<input type="checkbox"/> 8	1 [valid]	0	0
<input type="checkbox"/> 9	1 [valid]	0	0

Save Update Reset

Web Client

Name: Enter the cruise name.

Status: Check to enable the current cruise mode.

Serial Number: Check the box to activate the selected preset mode.


Preset: Select the preset point that you have set with Right Panel Control. See “Right Panel Control” on page 25.

Residence Time: Specify the residence time for each preset point.

Speed: Specify the moving speed between two preset points.

Indicator

Configure the LED indicator behavior when the Camera is connected to the network.



Indicator Mode Blink when network connected; Slow blink when no connection ▼

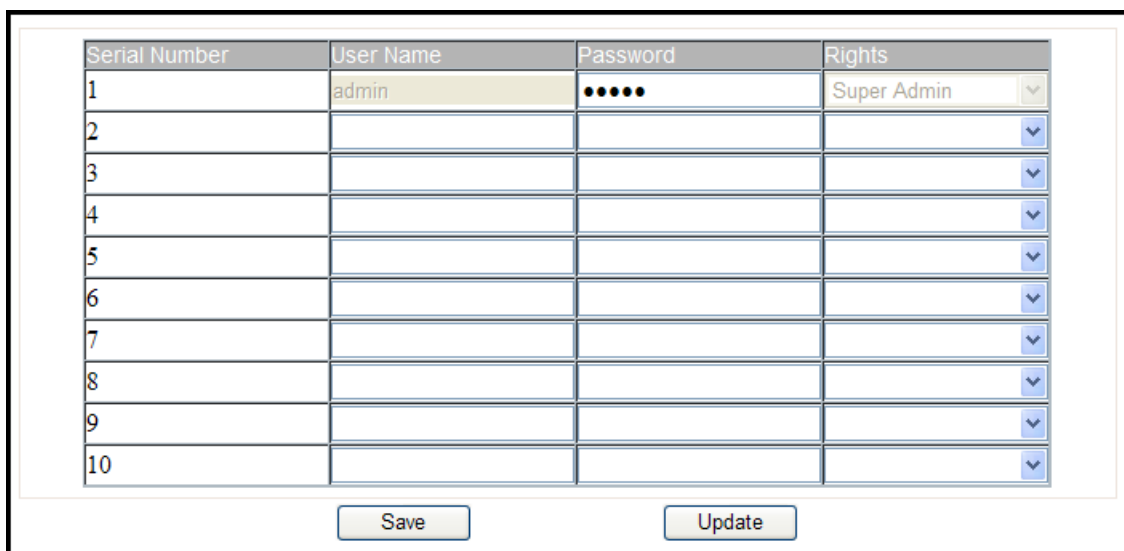
Save Update

Indicator Mode: Select the desired indicator setting.

- **Blink when network connected; off when no connection:** The LED indicator only blinks when the Camera is connected to the network.
- **Blink when network connected; Slow blink when no connection:** The LED indicator blinks rapidly when the Camera is connected to the network. Otherwise, the LED indicator blinks slowly when the Camera is disconnected from the network.
- **Always off:** The LED indicator is always off when the Camera is connected to the network.

Users

Change the password and authorize users and set the access rights in using the Camera.



Serial Number	User Name	Password	Rights
1	admin	•••••	Super Admin ▼
2			▼
3			▼
4			▼
5			▼
6			▼
7			▼
8			▼
9			▼
10			▼

Save Update

To change the administrator password, enter the new password in *Password* and click **Save**.

Web Client

Configure Other Users

You can specify up to 9 users. Only the Super administrator (**Super Admin**) can create an account and grant access rights to users.

Serial Number	User Name	Password	Rights
1	admin	•••••	Super Admin
2	user	••••	Visitor
3			Administrator
4			Operator
			Visitor

To create a new user, enter the user name and password. Then select one of the access rights:

- **Administrator:** Enable to configure most of the parameters.
- **Operator:** Enable to do limited operations such as pan/tilt control.
- **Visitor:** Enable to view live video only.

Log

View the events log.

User Name	IP Address	Time	Type
admin	10.0.3.110	2013/09/03 09:4	Set Confia
root	DEVICE		Power On
root	DEVICE	2013/09/03 09:1	Power Off
admin	10.0.3.110	2013/09/03 09:1	Set Confia
admin	10.0.3.110	2013/09/03 09:1	Loain Out
admin	10.0.3.110	2013/09/03 09:1	Loain In
admin	10.0.3.110	2013/09/03 09:1	Loain Out
admin	10.0.3.110	2013/09/03 09:1	Loain In
admin	10.0.3.110	2013/09/03 09:1	Loain Out
admin	10.0.3.110	2013/09/03 09:1	Loain In
admin	10.0.3.110	2013/09/03 09:1	Set Confia
admin	10.0.3.110	2013/09/03 09:1	Loain Out
admin	10.0.3.110	2013/09/03 09:1	Loain In
admin	10.0.3.110	2013/09/03 09:1	Loain Out
admin	10.0.3.110	2013/09/03 09:1	Loain Out
admin	10.0.3.110	2013/09/03 09:1	Loain Out
admin	10.0.3.110	2013/09/03 09:1	Loain In
admin	10.0.3.110	2013/09/03 09:1	Loain Out
admin	10.0.3.110	2013/09/03 09:1	Loain In

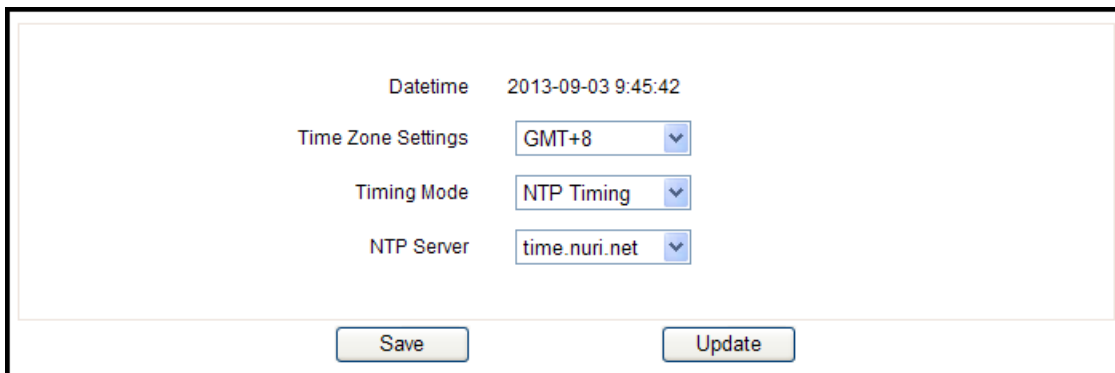
UpdateClear

⏪ ⏩ 1/7 ⏪ ⏩

Web Client

Date & Time

Configure the date and time settings.



The screenshot shows a configuration window for Date & Time settings. It includes a Datetime display showing '2013-09-03 9:45:42'. Below this are four dropdown menus: 'Time Zone Settings' set to 'GMT+8', 'Timing Mode' set to 'NTP Timing', and 'NTP Server' set to 'time.nuri.net'. At the bottom of the window are two buttons: 'Save' and 'Update'.

Datetime: Display the current date and time.

Time Zone Settings: Select the time zone in your location.

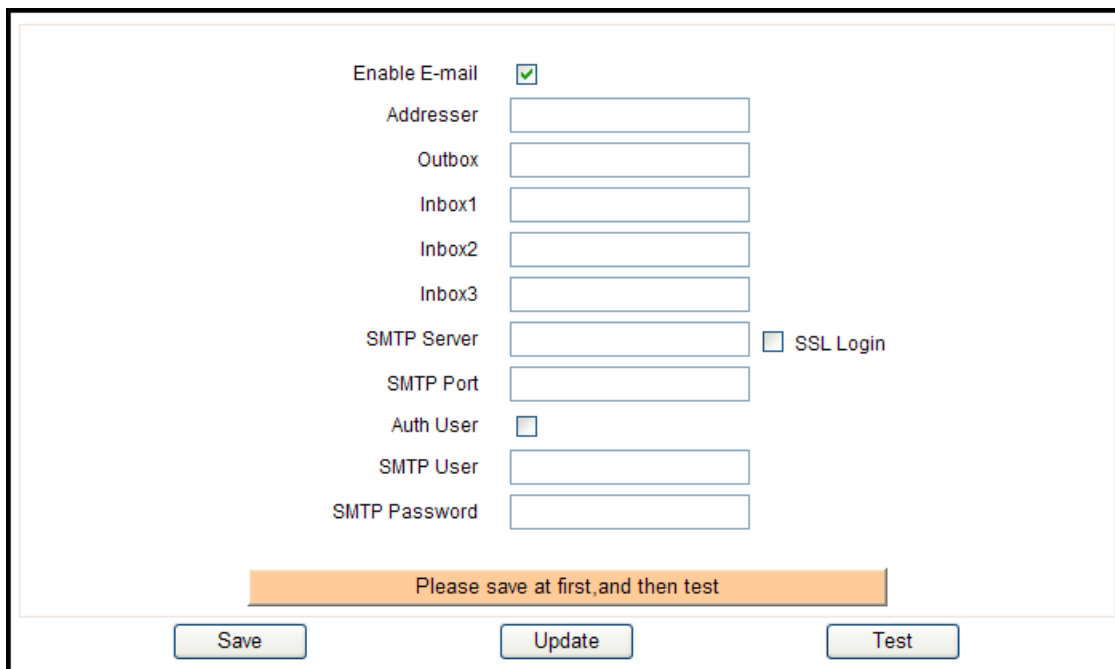
Timing Mode: Select the time mode.

NTP Server: Select the NTP server.

NOTE: This option is only available when the **Timing Mode** setting is set to **NTP Timing**.

E-mail(SMTP)

When the email settings are properly configured and the **Send E-mail** notification on motion detection/alarm page is activated, the system will automatically send a notification email when events occur.



The screenshot shows a configuration window for E-mail(SMTP) settings. It starts with an 'Enable E-mail' checkbox that is checked. Below this are several text input fields: 'Addresser', 'Outbox', 'Inbox1', 'Inbox2', 'Inbox3', 'SMTP Server', 'SMTP Port', 'SMTP User', and 'SMTP Password'. There is also an 'Auth User' checkbox and an 'SSL Login' checkbox. At the bottom of the window are three buttons: 'Save', 'Update', and 'Test'. A yellow banner at the bottom of the form area contains the text 'Please save at first, and then test'.

Enable E-mail: Check the box to activate the email notification function.

Addresser: Enter the sender's name.

Outbox: Enter the email address of the sender.

Inbox1/2/3: Enter the email address where the notification email is to be sent. You can set up to 3 email addresses.

SMTP Server: Enter the SMTP Server of the sending email server.

SSL Login: Check the box if your email server needs the SSL or TLS verification.

Web Client

SMTP Port: Enter the SMTP port of the sending email server.

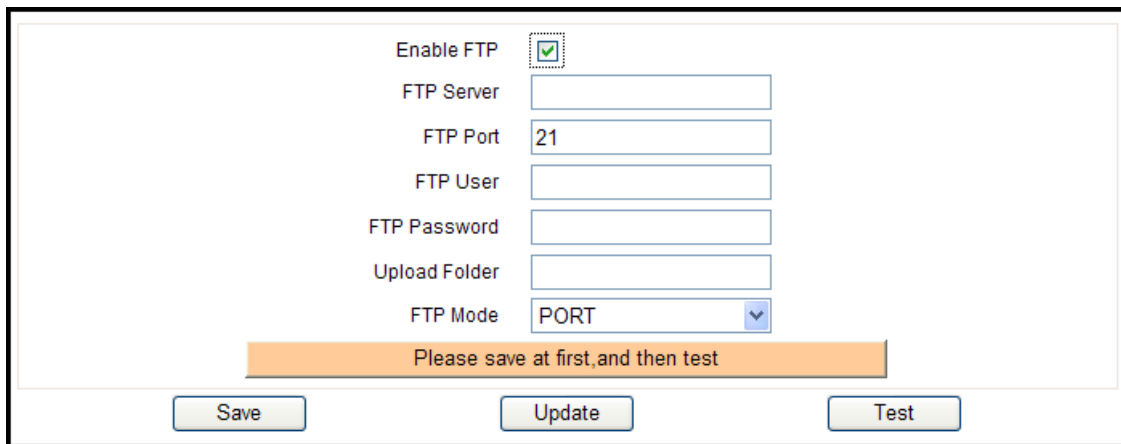
Auth User: Check the box to verify the user settings.

SMTP User: Enter the user name of the sender.

SMTP Password: Enter the password of the sender.

FTP

Configure the FTP server settings.



The screenshot shows a web form for configuring FTP settings. It includes the following fields and controls:

- Enable FTP:** A checkbox that is checked.
- FTP Server:** A text input field.
- FTP Port:** A text input field containing the value "21".
- FTP User:** A text input field.
- FTP Password:** A text input field.
- Upload Folder:** A text input field.
- FTP Mode:** A dropdown menu with "PORT" selected.
- Message:** An orange banner with the text "Please save at first, and then test".
- Buttons:** "Save", "Update", and "Test" buttons at the bottom.

Enable FTP: Check the box to activate the FTP function.

FTP Server: Enter the FTP server address.

FTP Port: Enter the port number of the FTP server.

FTP User: Enter the user name of the FTP server.

FTP Password: Enter the password of the FTP server.

Upload Folder: Specify the path of remote FTP server. Be sure to create a folder to store the uploaded snapshots.

FTP Mode: Specify the FTP server mode.

NOTE: Once the alarm is triggered, the system will automatically upload three snapshots to the FTP server every 1 second.

Web Client

SD Card

Manage the memory card and configure the recording settings to be stored in the memory card.

Device Name	<input type="text" value="TF16G"/>
Total Size	<input type="text" value="15551760"/> KB
Available Space	<input type="text" value="9945672"/> KB
Status	<input type="text" value="Normal"/>
<input type="button" value="Format"/>	<input type="button" value="Update"/>
Enable Auto Overwrite	<input type="checkbox"/>
Enable Pre-Record	<input type="checkbox"/>
Alarm capture to SD card	<input type="checkbox"/>
Pre-Record Time	<input type="text" value="3"/> <input type="button" value="v"/> Second
Record stream	<input type="text" value="Sub-Stream"/> <input type="button" value="v"/>
Manual Rec	<input type="text" value="close"/> <input type="button" value="v"/>
Manual Record Pack Time	<input type="text" value="10"/> <input type="button" value="v"/> Minute
<input type="button" value="Save"/>	<input type="button" value="Update"/>

Device Name: Display the name of the memory card.

Total Size: Display the total size of the memory card.

Available Space: Display the available storage size of the memory card.

Status: Display the state of the memory card.

Format: Click to format the memory card. All data will be deleted if formatted.

NOTE: Do not remove the SD card while card formatting is in progress.

Enable Auto Overwrite: Check the box to let the system to automatically overwrite the old recorded files when the memory storage is full.

Enable Pre-Record: Check the box to enable pre-record function.

Alarm capture to SD card: Check the box to let the system to automatically save the recorded files to the memory card when the alarm is triggered.

Pre-Record Time: Specify the pre-recording duration.

Record stream: Specify the type of the recording stream.

Manual Rec: Select **open** to enable manual recording.

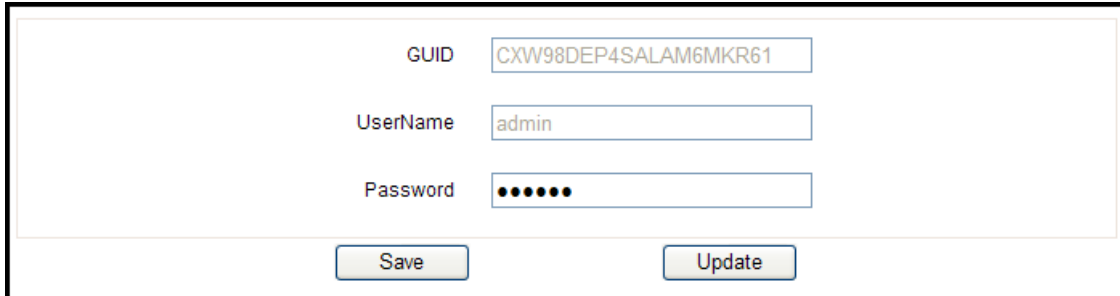
Manual Record Pack Time: Set the manual recording duration.

Web Client

P2P Settings

P2P password is the password that you enter after you have complete scanning the QR code or manually entering the GUID via portable device/computer.

Default is 123456. We suggest you change the password to protect your privacy.



GUID

UserName

Password

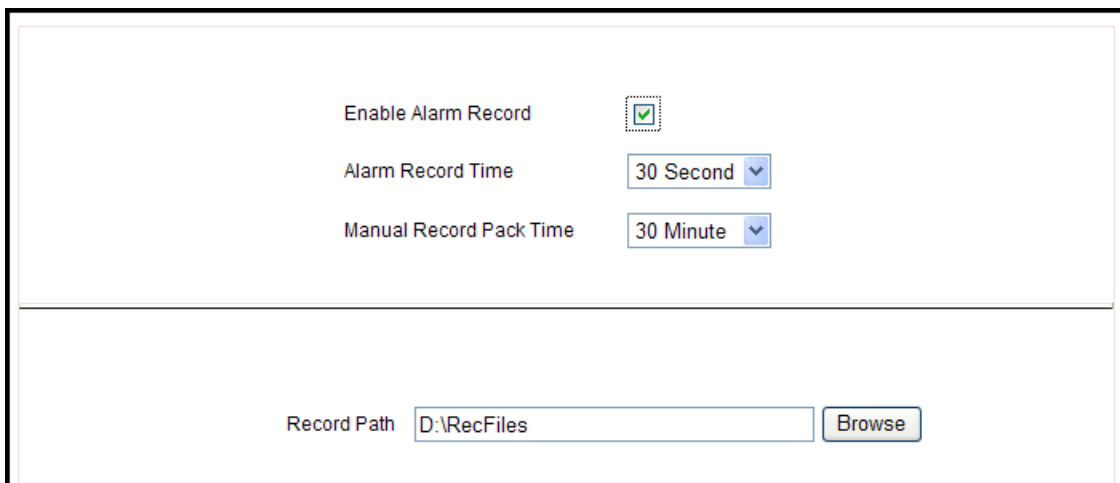
GUID: Display the GUID (QR Code).

UserName: Display the user name.

Password: Set or change the password of P2P. The default password is 123456.

Local Settings

Specify the local path directory to save downloaded videos, files, and snapshots.



Enable Alarm Record ☒

Alarm Record Time

Manual Record Pack Time

Record Path

Enable Alarm Record: Check the box to enable the system to automatically record a video when the alarm is triggered.

Alarm Record Time: Specify alarm recording duration.

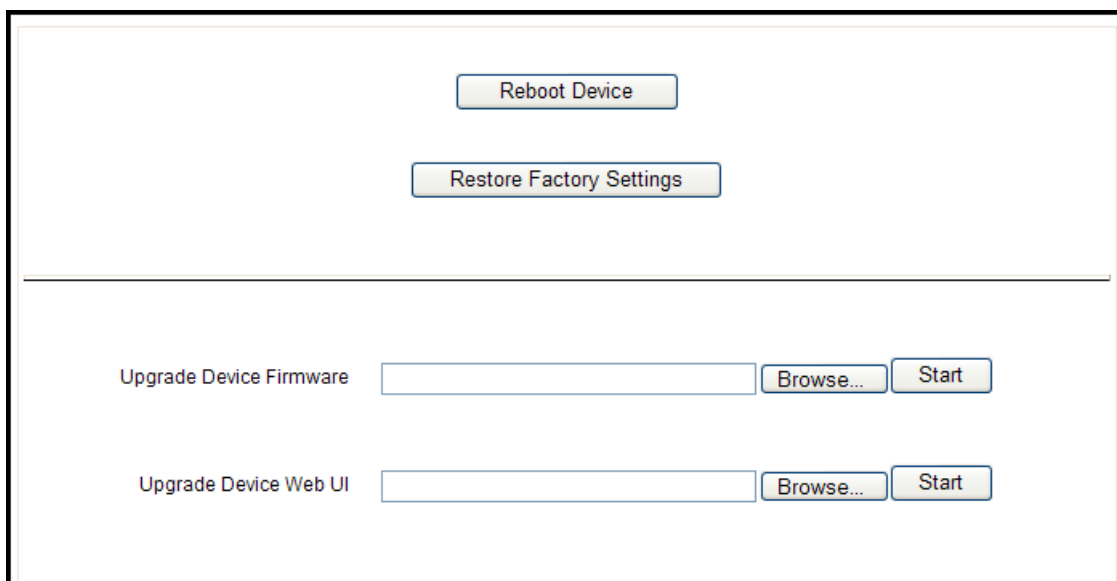
Manual Record Pack Time: Specify the manual recording duration.

Record Path: Click the corresponding **Browse** button to modify the path.

Web Client

System

Reboot the Camera, load factory defaults, or update the firmware and Web UI settings.



The screenshot shows a web interface for system settings. At the top, there are two buttons: "Reboot Device" and "Restore Factory Settings". Below these, a horizontal line separates the section from the upgrade options. There are two rows of controls. The first row is for "Upgrade Device Firmware", featuring a text input field, a "Browse..." button, and a "Start" button. The second row is for "Upgrade Device Web UI", also featuring a text input field, a "Browse..." button, and a "Start" button.

Reboot Device: Click to reboot the Camera.

Restore Factory Settings: Click to restore all parameters to the factory default settings.

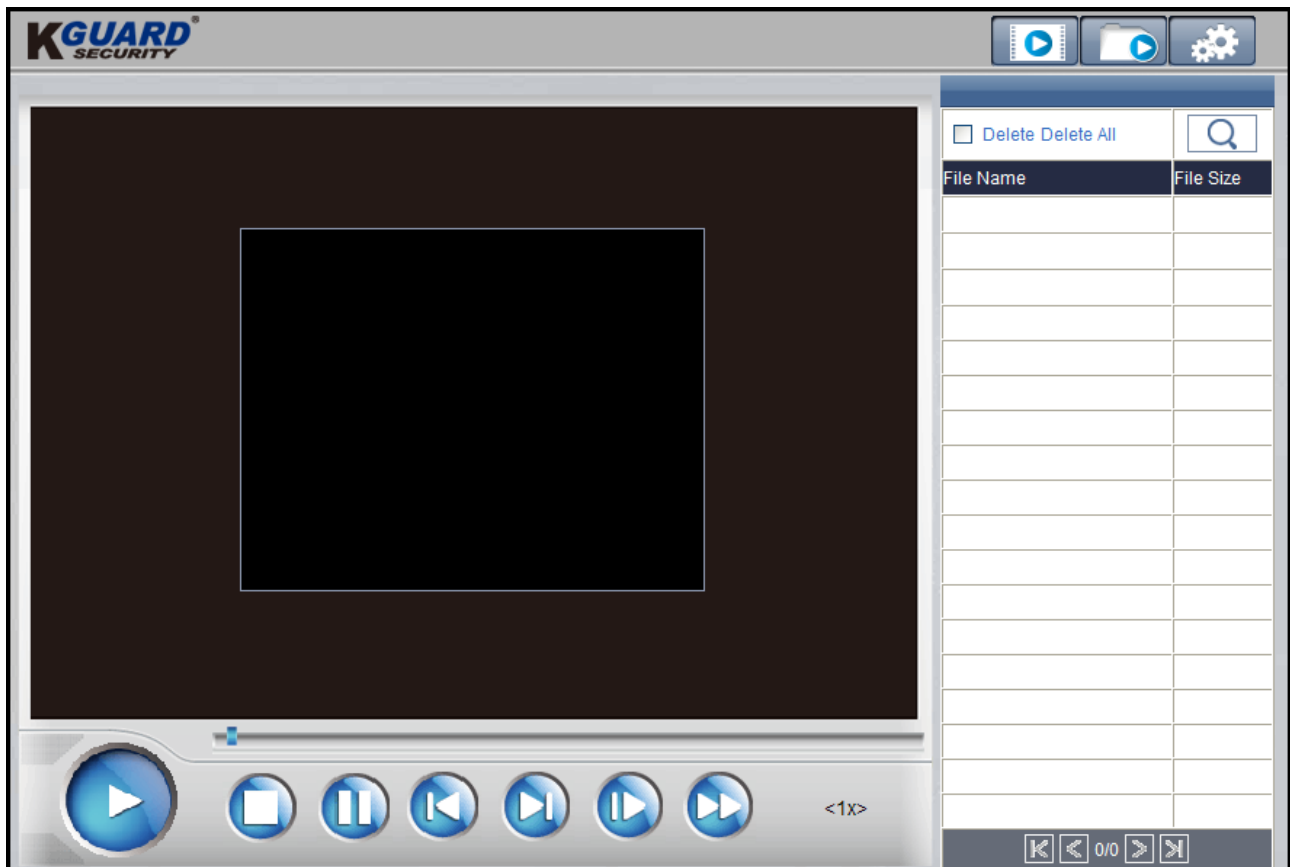
Upgrade Device Firmware: Click the corresponding **Browse** button to select the latest firmware file. Then click **Start** to update the firmware.

Upgrade Device Web UI: Click the corresponding **Browse** button to select the latest Web UI file. Then click **Start** to update the Web UI.

Web Client

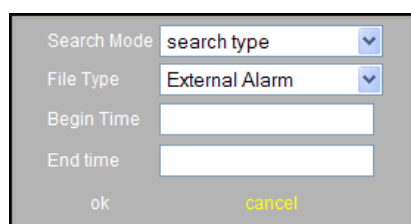
Playback

Click  tab to search and play the recorded files stored in the memory card.



Searching and Playing Videos

Click  to search the video. A search window appears.



The search window is a small dialog box with the following fields and buttons:

- Search Mode: search type (dropdown menu)
- File Type: External Alarm (dropdown menu)
- Begin Time: (text input field)
- End time: (text input field)
- ok (button)
- cancel (button)

Search Mode: Specify the search mode.

File Type: Specify the file type.

Begin Time/End time: Filter the search by time period.

Click **ok** to search the videos. The search results are displayed on the screen.

Web Client

Double-click the file that you want to play. The playback automatically starts.

Click to select the video.

Click to download the video.

The screenshot displays the KGUARD SECURITY Web Client interface. On the left is a large video player showing a live feed of a modern interior with a wooden table and white chairs. Below the player is a 'Playback Control' bar with buttons for play, stop, previous, next, and full screen, along with a speed control set to '<1x>'. On the right is a file list table with columns for 'File Name' and 'File Size'. The table contains 15 entries, all starting with 'M-20130724...'. Each entry has a checkbox, a download icon, and an upload icon. A red dotted box highlights the first three rows of the table. Below the table is a search bar and a 'Search results' section. A blue line points from the text 'Indicate Motion Detection video.' to the first row of the file list.

File Name	File Size
M-20130724...	3776512
M-20130724...	11592560
M-20130724...	1773968
M-20130724...	11746842
M-20130724...	12014868
M-20130724...	10896816
M-20130724...	13194122
M-20130724...	11468022
M-20130724...	11967876
M-20130724...	13178004
M-20130724...	10998010
M-20130724...	1284255
M-20130724...	10900044

Playback Control

Search results

Indicate Motion Detection video.

Appendix

Specifications

Item	Description	
Video	Video Compression	H.264
	Image Frame Rate	<ul style="list-style-type: none"> • 1280x720 pixels @30fps • 640x368 pixels @30fps • 320x208 pixels @30fps
	Day / Night Mode	Color during day, switches to B&W at night
	Frame Rate	Auto, 1fps ~ 30fps
	Maximum Streams	2 Simultaneous Streams
Camera	Image Sensor	Mega Pixel Color CMOS sensor
	Lens	3.6 mm fixed, F2.0
	Viewing Angle	90°
	Min. Illumination	0.5 Lux
	Pan/Tilt Range	Horizontal: 320° & Vertical 120°
Night Vision	Night Vision Distance	up to 15M / 49ft
	Illumination	Infrared LED
Audio	Audio Input	Built-in Microphone & jack for external microphone
	Audio Output	1 Built-in Speaker & 1 jack for external speaker
	Compression	ADPCM
Network	LAN Interface	Ethernet 10/100Mbps, Auto MDI/MDIX, RJ-45
	Network Type	Static IP, DHCP, PPPoE
	Wireless Interface	IEEE 802.11b/g/n (150Mbps)
	ONVIF Support	Yes
	Plug & Play (P2P)	Yes
	WPS	Yes
General	External Storage	SD Card (Capacity supports up to 32G)
	Alarm I/O	1 Channel Input, 1 Channel Output
	RS485	N/A
	Indoor / Outdoor	Indoor
	Operating Temperature	0°C ~ 55°C
	Operating Humidity	20% ~ 85%, non-condensing
	Power Consumption	DC 5V/2A
	Dimension (LxWxH)	105 x98 x130mm
Weight	N/A	N/A
System Requirements	Operating System	Microsoft Windows 7 / Vista / XP / 2000

**Design and specifications are subject to change without prior notice.*

Appendix

Web Client Browser Compatibility

See the following table for reference of the Web Client features supported by different web browsers

Function/Menu Option	Browser Type	
	Windows IE	Chrome / Firefox / Safari
Live View	YES	YES
Live Snapshot	YES	YES
Live Recording	YES	---
Live 2-Way Audio	YES	---
PTZ Controls	YES	YES
Preset Surveillance Position	YES	YES
Preset Cruise	YES	YES
Auto Patrol (Vertical/Horizontal)	YES	YES
Remote Playback	YES	---
Remote Backup	YES	---
Device Setup	YES	YES
Video Setup	YES	YES
Audio Setup	YES	YES
Motion Detection Setup	YES	YES
Alarm Setup	YES	YES
Network Setup	YES	YES
Wireless Lan Setup	YES	YES
UPNP Setup	YES	YES
DDNS Setup	YES	YES
Cruise Setup	YES	YES
Indicator Setup	YES	YES
Users Setup	YES	YES
Log Setup	YES	YES
Date & Time Setup	YES	YES
E-mail (SMTP) Setup	YES	YES
FTP Setup	YES	YES
SD Card Setup	YES	YES
P2P Setup	YES	YES
Local Setup	YES	---
System Setup	YES	YES



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