



FCS-6010

Day/Night 1.3-Megapixel P/T  
PoE Network Camera



User Manual

Ver1.0

Product name:	Day/Night 1.3-Megapixel P/T PoE Network Camera (FCS-6010)	
Release Date:	2011/11/21	
Manual Revision:	V1.0	Firmware 1.0.0.11
Web site:	<a href="http://www.level1.com">www.level1.com</a>	
Made in Taiwan.		

#### Default Settings

IP Address	DHCP
Username	admin
Password	admin

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# 1. Before You Use This Product

The use of surveillance devices may be prohibited by law in your country. The Network Camera is not only a high-performance web-ready camera but also can be part of a flexible surveillance system. It is the user's responsibility to ensure that the operation of such devices is legal before installing this unit for its intended use.

It is important to first verify that all contents received are complete according to the list in the "Package Contents" chapter. Take notice of the warnings in "Quick installation guide" before the Network Camera is installed, then carefully read and follow the instructions in the "Installation" chapter to avoid damages due to faulty assembly and installation.

## 1.1 Package Contents

FCS-6010

Power Adapter

Bracket

RJ45 Ethernet LAN Cable

Quick Installation Guide

CD Manual / Utility

## 2. Network Camera Overview

### Product Overview

The LevelOne FCS-6010 with built-in high performance H.264 1.3-Megapixel CMOS sensor delivers high quality images up to 1280x1024 resolution. It is able to broadcast live images to your mobile phone or PDA, and supports 3GPP/ ISMA RSTP format for 3G mobile phones.

### Build-in IR LED and ICR for Day/Night

The FCS-6010 features 10 IR illuminators built around the lens for a clear view at night up to 10 meters distance. With the built-in ICR, the FCS-6010 provides a good video quality in both day and night.

### Support remote16CH Live View

The FCS-6010 allow you to monitor up to 16 cameras video simultaneously via a Internet Explorer (ActiveX)

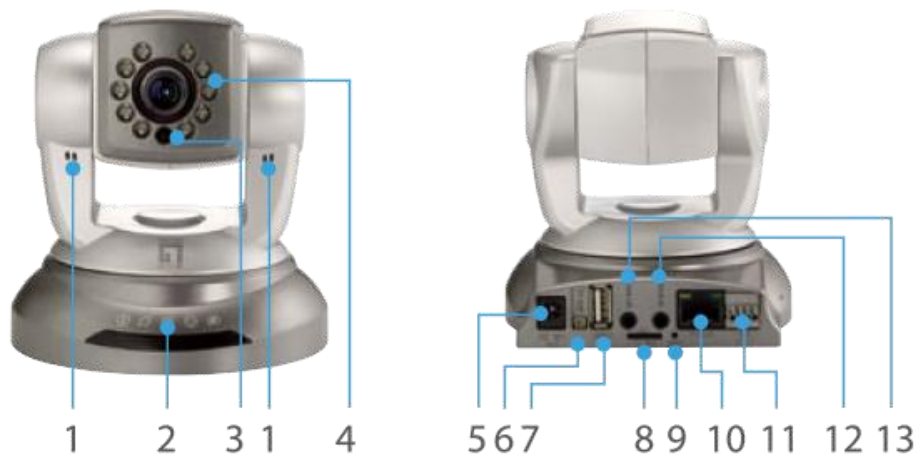
### 1.3-Megapixel with H.264 / MPEG4 / MJPEG Compression

The Level1 FCS-6010 supports triple-mode video compression. In order to achieve the highest video quality and/or faster video transmission, users can select MJPEG, MPEG4 or H.264 compression mode depending on their network settings. In addition, the FCS-6010 provides many advanced features, including PoE, DI/DO, TV out (video), 2-Way audio, Micro-SD/SDHC card slot for local storage and a USB port for an upgrade to wireless connections by optional with WUA-0606 (150Mbps Wireless USB Adapter).



### 3. Device Appearance Description

#### 3.1 Front & Rear view



- 1. MIC
- 2. Status LEDs
- 3. Auto Light Sensor
- 4. IR LEDs
- 5. DC Jack
- 6. TV Out (Video)
- 7. USB Port

- 8. Micro SD/SDHC Slot
- 9. Reset Button
- 10. Ethernet
- 11. DI/DO
- 12. Audio In
- 13. Audio Out

The reset button is used to reset the system or restore the factory default settings. Sometimes resetting the system can return the camera to normal operation. If the problems remain after reset, please restore the factory settings and install it again.

Reboot - Please press and release the indented reset button within 1 second with paper clip or thin object. Wait for the network camera to reboot.

Restore - Please press and hold the reset button until the status of LED turns off. It takes about 10 seconds.

#### 3.2 Micro-SD Card Capacity

The network camera is compliant with Micro-SD/SDHC (Maximum 32GB) cards.

## 4. Installation

### 4.1 System Requirements

Operating System

Microsoft Windows XP Home Edition SP2

Microsoft Windows XP Professional SP2

Computer

IBM PC/AT Compatible

CPU

Pentium 3GHz or faster

Memory

1024 MB or more

Monitor

1024 x 768 pixels or more, 24-bit True color or better

Network Interface

10/100Mbps Network interface card must be installed

Web Browser

Microsoft Internet Explorer 6.0 SP2

CD-ROM Drive

It is necessary to read the operating instructions in the provided CD-ROM.

Adobe Reader

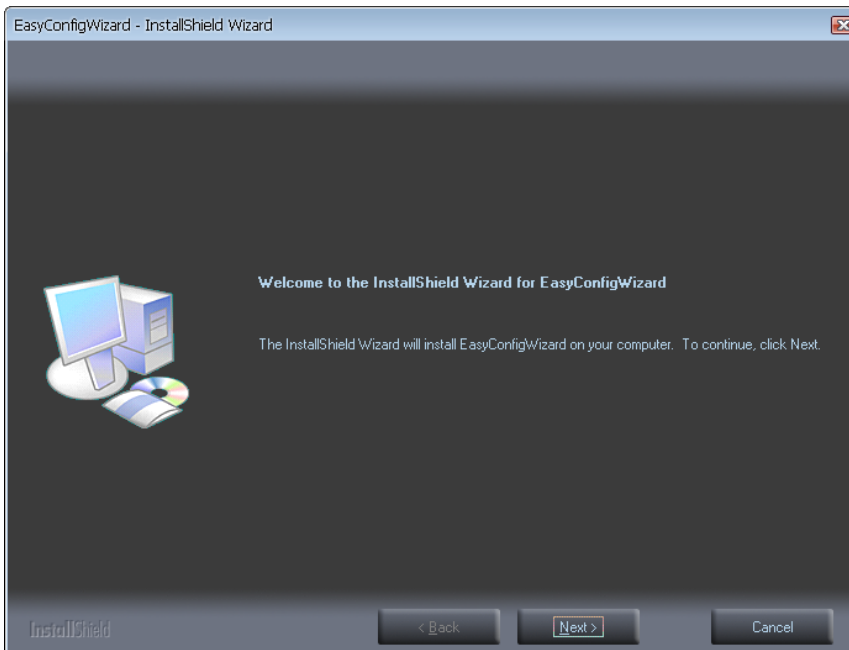
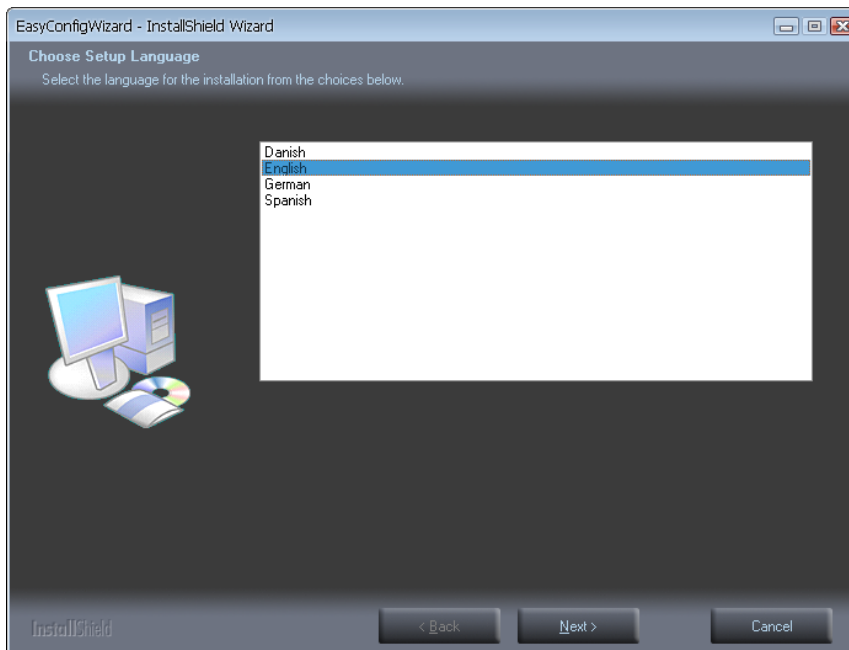
It is necessary to read the operating instructions in the provided CD-ROM.

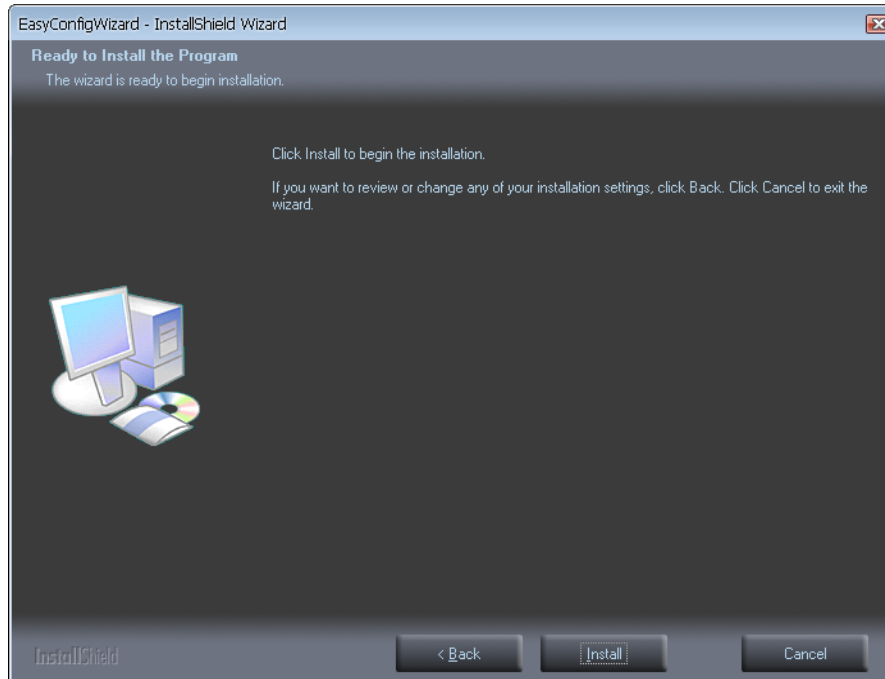
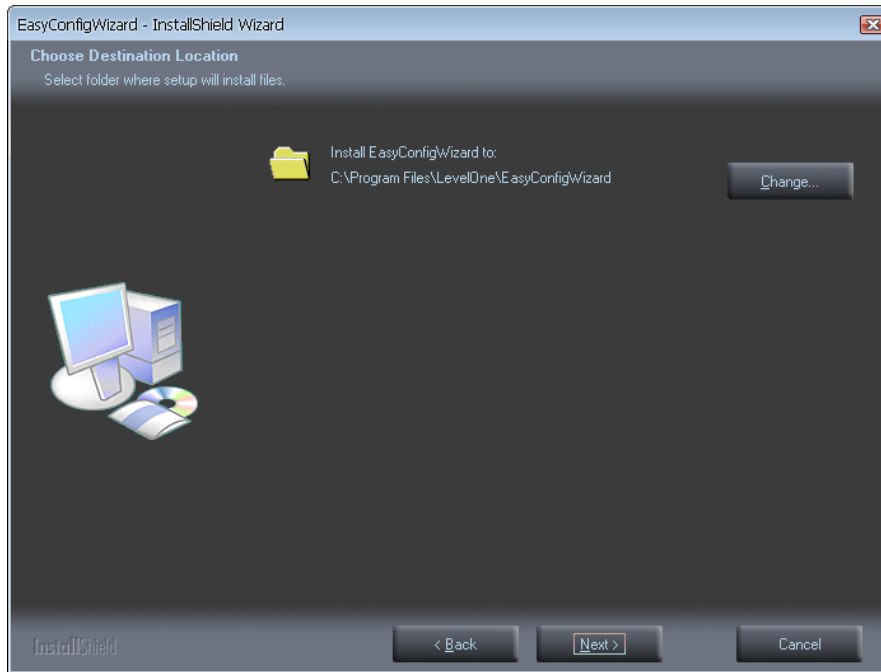
### 4.2 Software installation

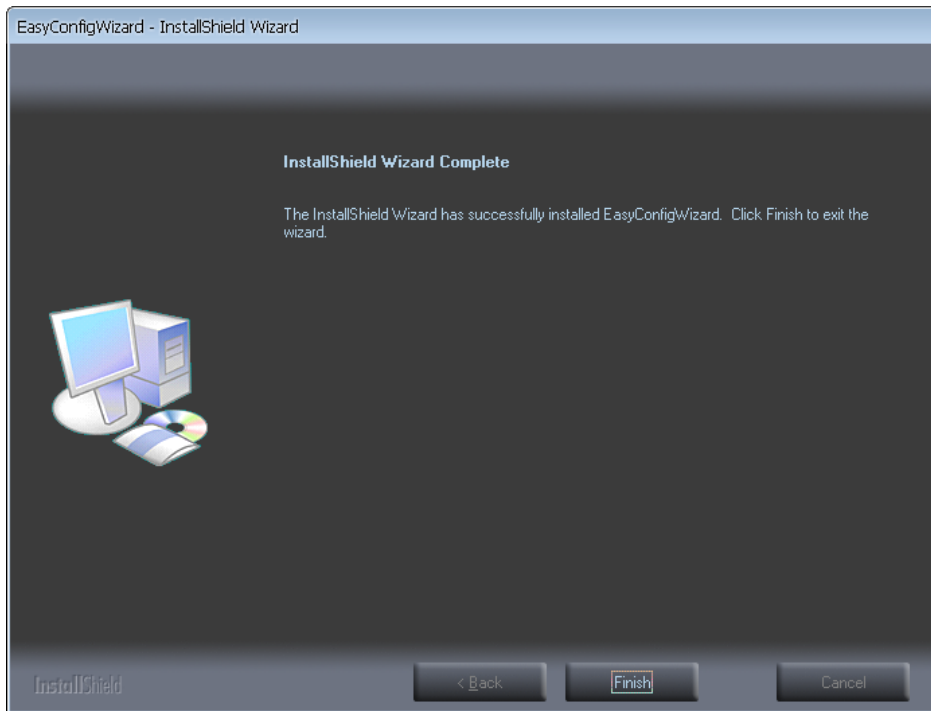
In this manual, "User" refers to whoever has access to the Network Camera, and "Administrator" refers to the person who can configure the Network Camera and grant user access to the camera. After hardware connection checking, the users can run the Installation Wizard program included in the product CDROM to automatically search for the Network Camera in the Intranet. There may be many Network Cameras in the local network. Users can differentiate the Network Cameras with the serial number. The serial number is printed on the labels on the carton and the bottom of the Network Camera body.



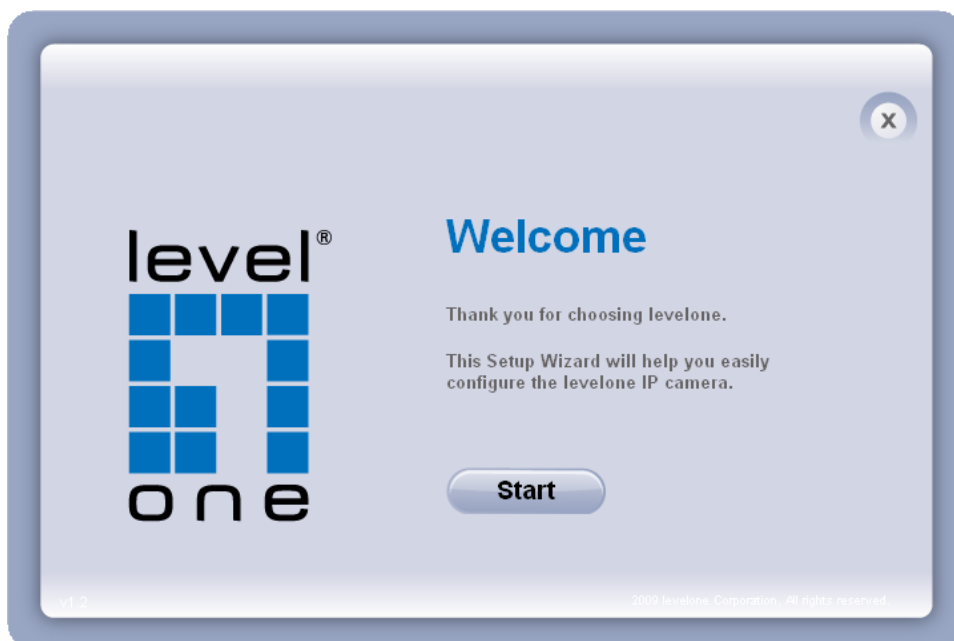
Insert the Installation CD into the CD-ROM driver. Click install and shows the welcome screen. Follow the steps to install the Installation wizard on user's computer.







Do not check the box if user would like to check the hardware installation settings, Otherwise click "Skip the hardware installation" to skip the hardware connection checking, the program will automatically search for the Network Camera in the Intranet.  
Click "Start" to continue.



**level**  
**one**

If you have only one levelone IP camera, you can make changes to the following settings. If you have more than one levelone IP camera, you will need to run the setup wizard to configure each levelone IP camera separately.

UPnP Name	Model Name	MAC

**Search again**

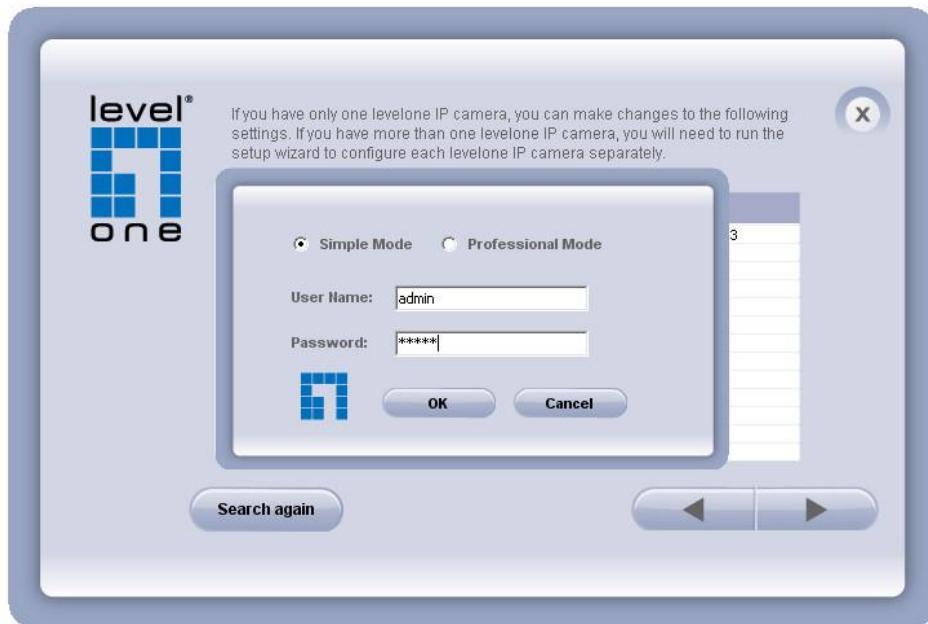
**level**  
**one**

If you have only one levelone IP camera, you can make changes to the following settings. If you have more than one levelone IP camera, you will need to run the setup wizard to configure each levelone IP camera separately.

UPnP Name	Model Name	MAC
FCS-6010-a999	FCS-6010	00:11:6b:71:11:63

**Search again**

Select the Network Camera from the survey list and enter the user name and password. The user name and password are assigned as “admin/admin”.



### 4.3 Setting the Network Camera IP address

User can either select simple mode or professional mode for network camera IP setting. If simple mode is selected, the easy configuration program will set up the connection automatically. If professional mode is selected, the user will need to configure the IP manually, The DHCP setting is recommended. If user wants to set IP address manually, please refer to the product user manual.



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one

Enter the Static IP Address to configure IP Camera.

IP Address: 192 . 168 . 50 . 144

Subnet Mask: 255 . 255 . 255 . 0

Gateway: 192 . 168 . 50 . 1

DNS1: 168 . 95 . 1 . 1

DNS2: 61 . 31 . 233 . 1

Please make sure the internet connection is ready then start to do the internet discovery, otherwise click “Skip” to finish the setting.

The default domain name is MAC address; you can also register with your own name on-line.

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one

### Easy Link

You may use Easy Link setting to connect to the IPCam without to have IP bear in mind.

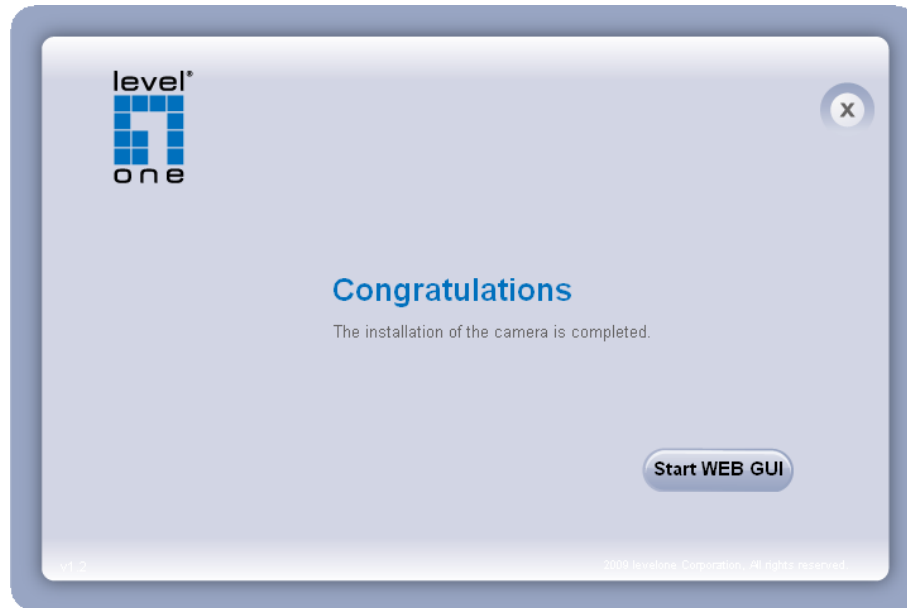
Enable

Domain Name: ac8112a8a999 .level1dns2.net **Check**

Refresh Time: 1 hr

**Skip**

After finish setting, the connection successful or fail showed. If connection failed, user can either try again or quit the installation. User can either select Start Web GUI to continue or click “X” on the top right of the screen to finish the installation.



Once installation is completed, the Administrator should proceed to the next section "Access to the Network Camera" for necessary checks and configurations.

## 5. Access to the Network Camera

### 5.1 Check Network Settings

The Network Camera can be connected either before or immediately after software installation onto the Local Area Network. The Administrator should complete the network settings on the configuration page, including the correct subnet mask and IP address of gateway and DNS. Ask your network administrator or Internet service provider for the detail information.

### 5.2 Add Password to prevent Unauthorized Access


The Administrator should immediately implement a new password as a matter of prudent security practice. The user name and password for the Administrator are assigned as “admin/admin”. Once the Administrator’s password is saved, the Network Camera will ask for the user’s name and password before each access. The Administrator can set up a maximum of ten (10) user accounts. Each user can access the Network Camera except to perform system configuration. Once the password is changed, the browser will display an authentication window to ask for the new password. Once the password is set, there is no provision to recover the Administrator’s password. The only option is to restore to the original factory default settings.

## 6. Authentication

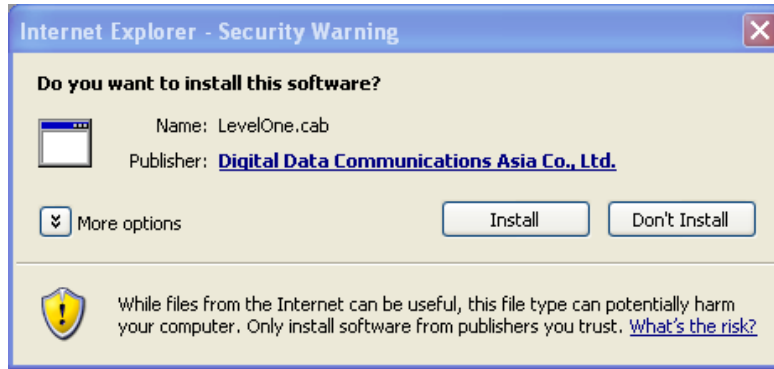
After opening the Web browser and typing in the URL of the Network Camera, a dialogue window pops up to request a username and password. The user name and password for the Administrator are assigned as “admin/admin”. Upon successful authentication, the following figure is displayed. The foreground is the login window and the background shows the message if authentication fails. The user may check the option box to save the password for future convenience. This option is not available to the Administrator for obvious reason.



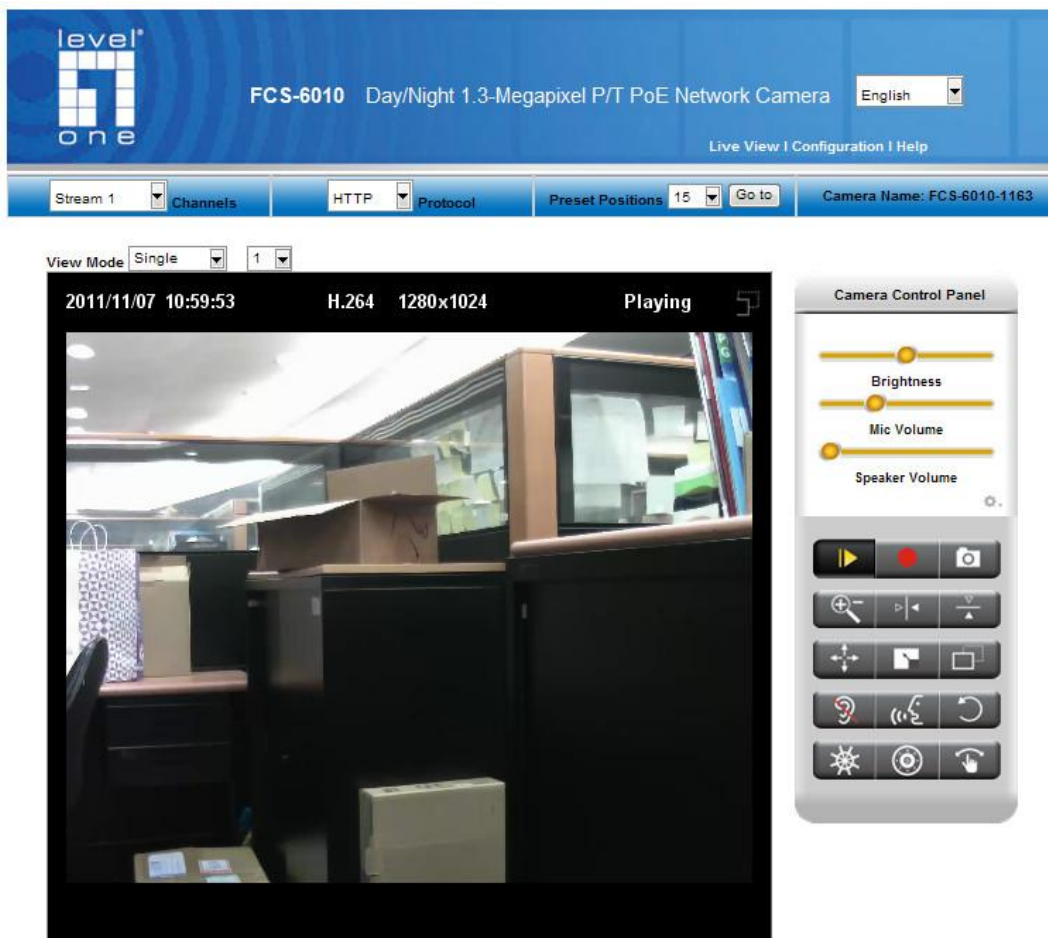
### 6.1 Installing plug-in

For the initial access to the Network Camera in Windows, the web browser may prompt for permission to install a new plug-in for the Network Camera on the Internet Explorer. Permission request depends on the Internet security settings of the user’s PC or notebook. If the highest security level is set, the computer may prohibit any installation and execution attempt. This plug-in has been registered for certificate and is used to display the video in the browser. Users may click on  to proceed. If the web browser does not allow the user to continue to install, check the Internet security option and lower the security levels or contact your IT or networking supervisor for help.





## 7. Live View



### 7.1 View Mode

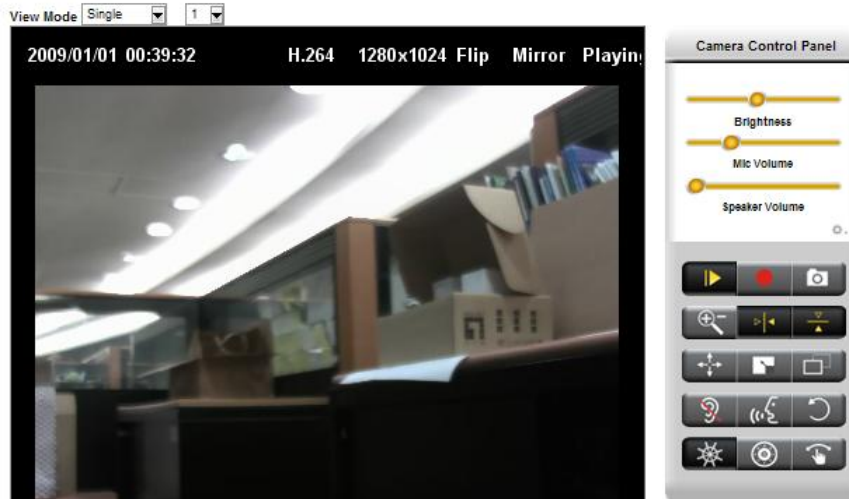
FCS-6010 support remote 16 channel function

You can setup FCS-6010 as a master IPcam to remote viewing other camera's video screen in FCS-6010 Web configuration page.

## Single

In single mode, you can check one camera video in the full screen.

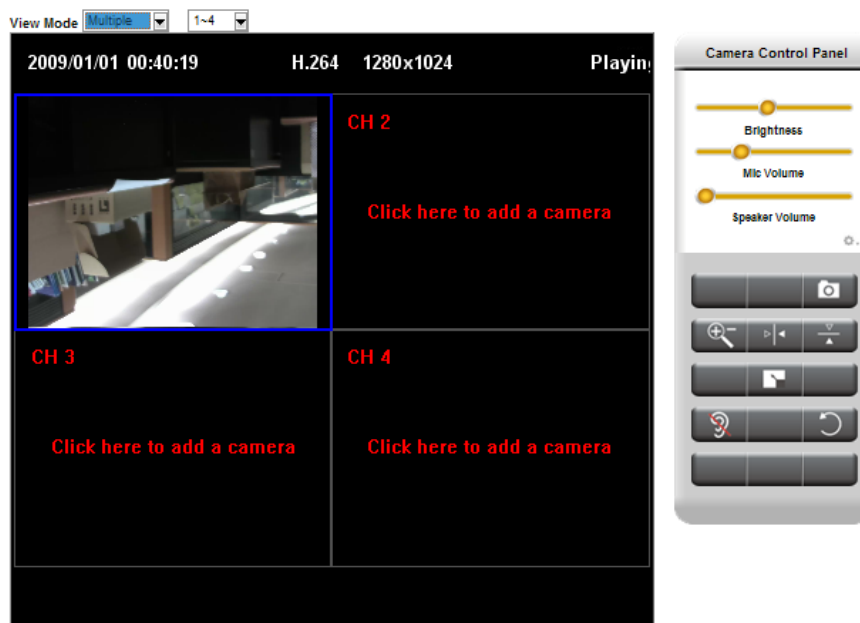
You can select the drop-down menu to select the camera 1 to camera 16.



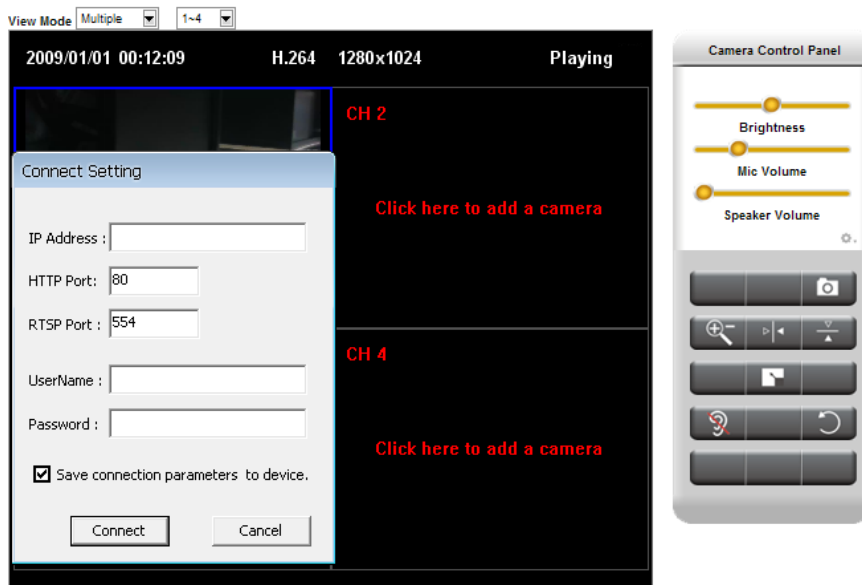
## Multiple

In multiple mode, you can check 4 cameras video in the same screen.

You can select the drop-down menu to select the camera 1~4 to camera 13~16.



If you want to add camera2~camera4 in this screen, click the ch2~ch4 screen to add camera. It will pop up a connect setting screen as following.

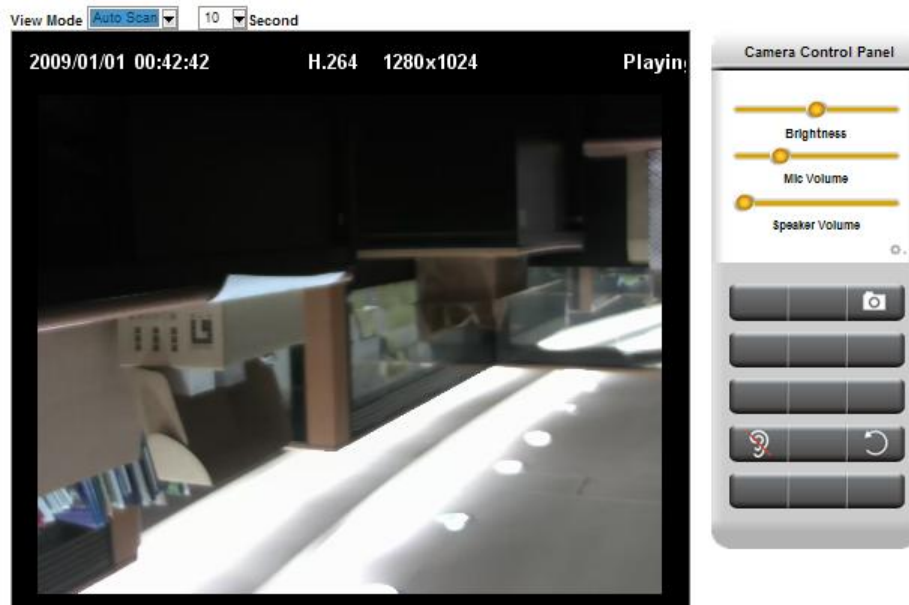


## Auto Scan

In auto scan mode, you can check one camera video in the full screen.

The device will automatically change to next camera video each per 10 seconds.

You can select the drop-down menu to change the time parameter from 10 seconds to 100 seconds.



## Live View

is the default page that opens when accessing the Network Camera. Live video is displayed directly in the browser window.

## Stream1/Stream2 Channels

The network camera offers simultaneous dual stream for optimized quality and bandwidth. To configure the codec compression and video resolution, please go to the Configuration->Camera/video/audio->Video to make the changes, or refer to the Video configuration page.

## TCP/UDP protocol

TCP - This protocol guarantees the complete delivery of streaming data and thus provides better video quality. Nevertheless, the downside with this protocol is that its real-time effect is not as good as that of the UDP protocol.

UDP - This protocol allows for more real-time audio and video streams. However, network packets may be lost due to network burst traffic and images may be broken. Activate UDP connection when occasions require time-sensitive responses and the video quality is less important.

## LED Control

Select from the drop-down list to adjust the brightness of the camera's LED.

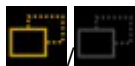
Click Apply or Reset to take effect.



Recording on/off: shows the status of recording video



MIC on/off: shows the status of MIC volume.



MD on/off: shows the status of Motion Detection

**Camera Control Panel** - There are two slider bars and eight control buttons on the remote controller.

They are describe as below:

**Brightness and Mic volume adjustment** - Drag the slider bar to adjust the image brightness level and Mic volume. Click "Default" for default brightness setting and "Mute" for no sound. For more Audio setting, please refer to the Audio configuration on page 22.

**Speaker** –You can output the audio form the computer's audio input terminal to the camera's built-in speaker output.



Play or Stop - Click this button to play or stop the video.



Recording - Click this button to record video to your computer.



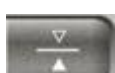
Snapshot - Click this button to capture and save still images.



Digital Zoom - Click this button to enable the zoom operation.



Mirror - horizontally reflect the display of the live video.



Flip - vertically reflect the display of the live video.



Real Size - click this button to view the object in real size. Press this button again to switch back to normal mode.



Full Screen - Click this button to switch to full screen mode. Press “Esc” key to switch back to normal mode.



Motion Detection Alert: Click this button to enable motion detection alert function.



Mute – Turn off the sound.



Talk(\*) – To communicate through the camera using the computer MIC.



Set Default – Reset to default settings.

## PT Control



Patrol - Enable the patrol function. If a designated patrol has not been set for that time period, the first patrol group on the patrol list will be enabled.



Pan/Tilt Control - Click on the arrows to pan and tilt the camera. Click the center of icon to return to the home position.



Joystick Mode – Scroll over the live view window to move the camera view in the direction of the mouse pointer.



**NOTE** - The <Video Control Panel> function has no effect on the recorded video. Whatever changes made to the <Video Control Panel> **will not** be applied to the recorded video.

## 8. Camera/Video/Audio

Click Configuration on the main page to enter the camera setting pages. Note that only Administrators can access the configuration page.

### 8.1 Camera

#### Camera Settings

**Brightness** : Drag the slider bar to adjust the image brightness level from -5 to +5.

**Contrast** : Drag the slider bar to adjust the image contrast level from -5 to +5.

**Sharpness** : Drag the slider bar to adjust the image sharpness level from -5 to +5.

**Saturation** : Drag the slider bar to adjust the image saturation level from -5 to +5.

#### Mirror and Flip

**Mirror** - Enable to horizontally reflect the display of the live video.

**Flip** - Enable to vertically reflect the display of the live video.

#### Flicker-Free

Eliminates the problem of flicker.

#### Color Effect

Select to display color or black and white video streams.

The screenshot displays the 'Camera Settings' web interface. On the left, a sidebar contains navigation menus for 'Camera/Video/Audio', 'Camera Control', 'Network', and 'Event'. The main area features a live video feed of an office. To the right of the video are several control panels: 'Camera settings' with sliders for Brightness, Contrast, Sharpness, and Saturation; 'Mirror and Flip' with checkboxes for Mirror and Flip; 'Flicker Free' with radio buttons for Indoor Mode - 50Hz and Indoor Mode - 60Hz; 'True Day & Night' with radio buttons for Auto and Manual; and 'Color Effect' with radio buttons for Color and Black & White. At the bottom right, there are buttons for 'Test in Full Screen', 'Apply', and 'Cancel'.

## 8.2 Video

The Network Camera offers two separate streams for different viewing options.

### Stream 1 & Stream 2

**Video Codec** : The Network Camera offers three choices of video codec standards for real-time viewing: H.264, MPEG-4 and MJPEG.

**Video Resolution** : Select from the drop-down menu to choose the best resolution recording settings.

**Frame Rate** : Select the frame rate from the drop down list, choosing from the range of 1 to 30 fps. Set the frame rate higher for a smoother video quality.

**Video quality and bitrate** : Users can either choose "quality" or "bitrate" to control the video quality with H.264 and MPEG4 video codec. Only "quality" can be chosen when MJPEG video codec is selected. Set the bitrate higher for a better video quality, but note that a higher bitrate will use higher network bandwidth.

The video quality can be set between Level 1-Level 6, with Level 6 providing the best image quality.

### HTTP Transport

If MJPEG is used for Video Codec, users must enable HTTP Transport protocol for video communication.

Click **Apply** or **Cancel** to take effect.

#### Video

Stream	Video Overlay	RTSP Server
Stream 1		
Video Codec	H.264	
Video Resolution	1280x1024	
Frame Rate	30	
Bitrate Mode	Constant Bitrate	
Bitrate	1500 Kbps. (64~12000)	
Quality	3	
Quick settings	For Mobile Streaming	
Stream 2		
Enable	<input checked="" type="checkbox"/>	
Video Codec	MJPEG	
Video Resolution	1280x1024	
Frame Rate	25	
Bitrate Mode	Variable Bitrate	
Bitrate	64 Kbps. (64~12000)	
Quality	3	
Quick settings	For Mobile Streaming	

Note: For stream recording, recording stream source must be set to H.264 or MPEG4 with a bitrate lower than 4Mbps or the quality below 3 and the resolution lower than 1280x1024.

## Video Overlay

### Timestamp

Check to enable the timestamp function and select display position from the drop-down list if user wants date and time to be shown on the screen of the live video. User may also enable and enter the video description in text box; and select display position from the drop-down list if user wants to make a note about the network camera.

Click **Apply** or **Cancel** to take effect.



Note: The video overlay will only takes effect in stream 1.

### Video

Stream	Video Overlay	RTSP Server
<b>Timestamp</b>		
Enable	<input type="checkbox"/>	
Position	Left-Top ▼	
<b>Text</b>		
Enable	<input type="checkbox"/>	
Position	Left-Top ▼	
Text	<input type="text"/>	
<input type="button" value="Apply"/> <input type="button" value="Cancel"/>		

## RTSP Server

To utilize RTSP authentication, the user must first set a password for the Network Camera. RTSP (Real-Time Streaming Protocol) controls the delivery of streaming media. The port number is set to 554 by default.

RTSP (Real-Time Streaming Protocol) controls the delivery of streaming media. The port number is set to 554 by default.

Authentication - Depending on the network security requirements, the Network Camera provides two types of security settings for streaming via RTSP protocol: NONE and DIGEST.

If DIGEST authentication is selected, user credentials are encrypted using MD5 algorithm, thus providing better protection against unauthorized access.

Click **Apply** or **Cancel** to take effect.



## Video

Stream	Video Overlay	RTSP Server
RTSP Server		
Port	554	
Authentication	NONE	
RTP/RTCP		
RTCP Mode	Without SR	
<input type="button" value="Apply"/>		<input type="button" value="Cancel"/>

## 8.3 Audio

The administrator can set up two separate streams for the Network Camera for different viewing devices. The administrator can enable or disable the audio function on either stream. If audio enable is selected, select the Audio codec from the drop-down menu.

Click **Apply** or **Cancel** to take effect.

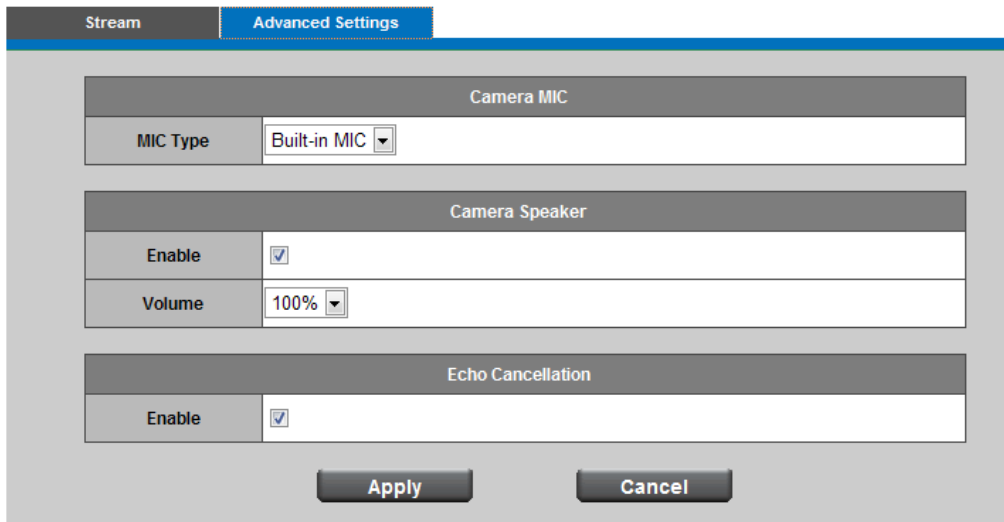
### Audio Configuration

Stream	Advanced Settings
Stream 1	
Enable	<input checked="" type="checkbox"/>
Audio Codec	G.711
Stream 2	
Enable	<input type="checkbox"/>
Audio Codec	G.711
<input type="button" value="Apply"/> <input type="button" value="Cancel"/>	

### Advanced Settings

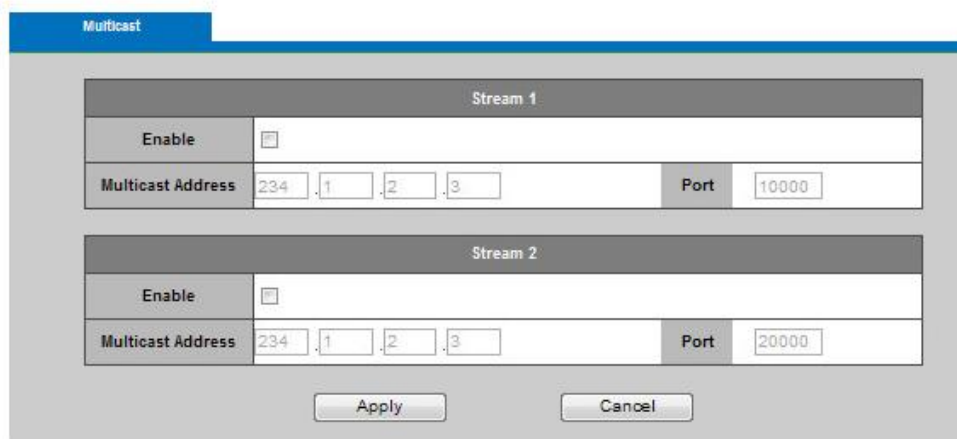
Echo Cancellation Enabled - Enable to avoid an echo.

Click **Apply** or **Cancel** to take effect.



## 8.4 Multicast

### Multicast



Multicast sends a video stream to the multicast group address and allows multiple clients to acquire the stream at the same time by requesting a copy from the multicast group address. Therefore, multicast can effectively save Internet bandwidth. The RTSP (Real-Time Streaming Protocol) controls the delivery of streaming media.

Note - Using the IP address of the camera enables you to view the video.

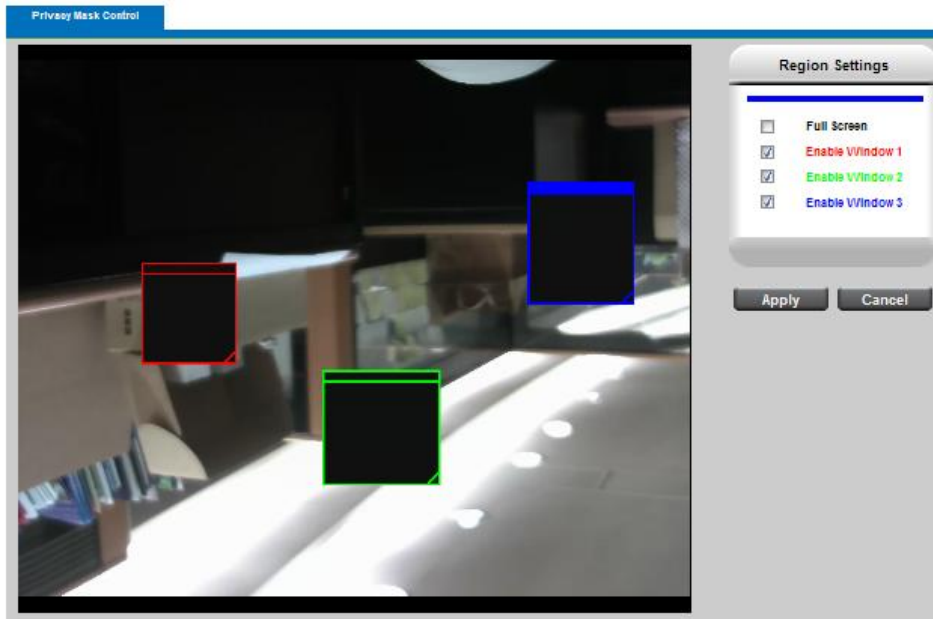
Example: `rtsp://192.168.1.1/channel1`

Click **Apply** or **Cancel** to take effect.

## 8.5 Privacy Mask

The Cube camera is equipped with a privacy feature which allows users to mask the camera's live view. A black screen will be displayed in place of the live view window. This application is particularly useful when the camera is being used for home surveillance. With the privacy button, the user can have privacy while they are going about their daily life.

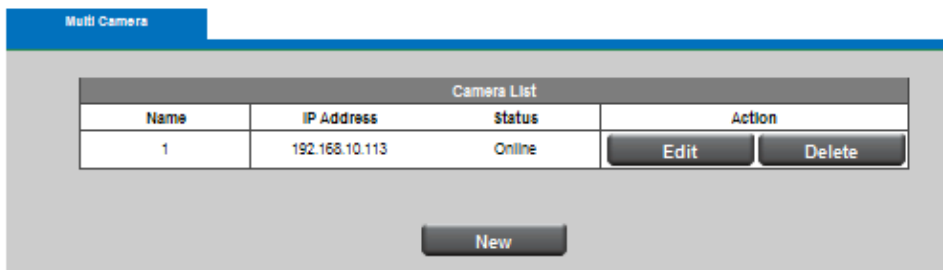
## Privacy Mask Control



## 8.6 Multi Camera

Add view mode camera 2~4 to camera 12~16.

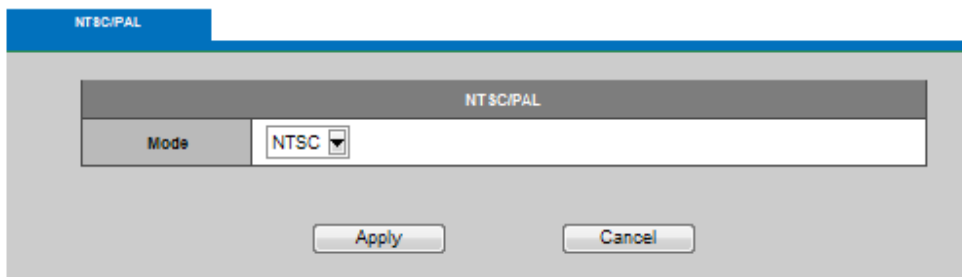
### Multi Camera



## 8.7 NTSC / PAL

NTSC / PAL TV out options selected capture mode.

### NTSC/PAL



## 9. Camera Control

### 9.1 Preset Positions

A preset position is a pre-defined camera view that can be used to quickly move the camera view to a specific location. To create a preset position:

Use the Pan, Tilt (PT) controls to steer the camera view to the required position.

Enter a descriptive name under Current Position and click **Add**.

The camera position and focus settings will be saved as a preset position.



**NOTE** – A total of sixteen preset points can be set.

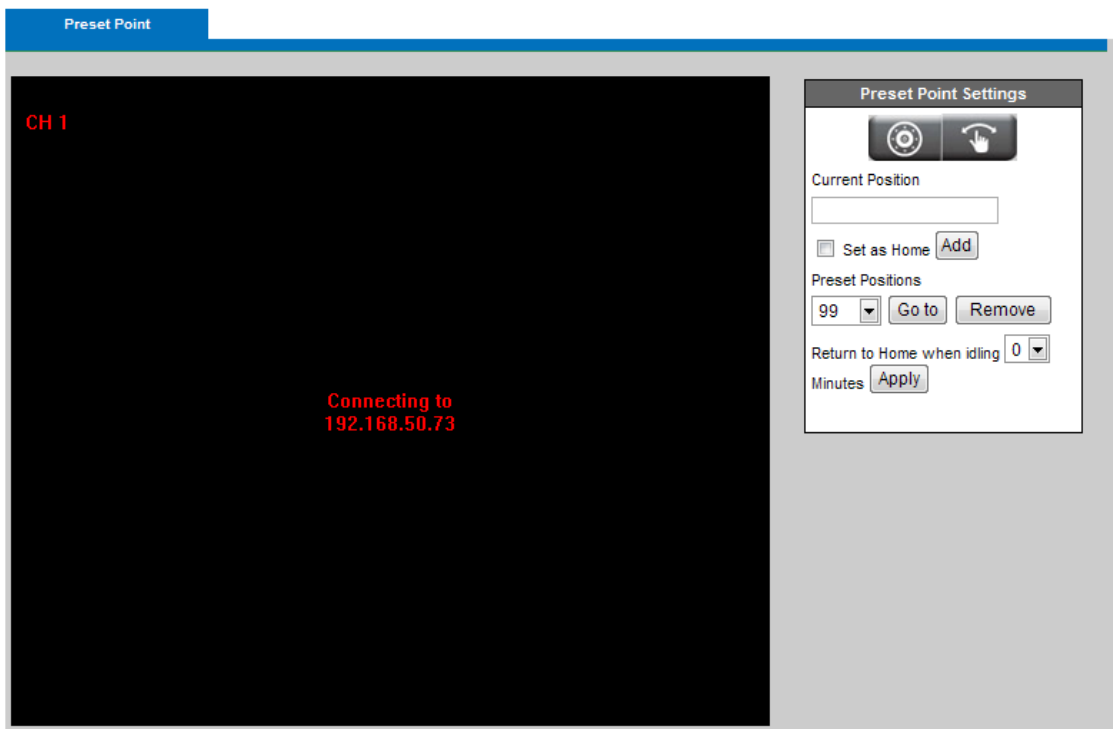
Preset Positions can be assumed at any time by selecting the preset position's name from the available positions drop-down list. One position can be set as the **Home** position, which is readily accessible by clicking the **Home** button in the PT panel.



**NOTE** - The name of the preset point set as **Home** will have (H) added; for example, Gate (H).

The camera can be configured to return to the **Home** position when the camera has been inactive for a specified length of time. Select the desired length of time from the drop-down menu and click **Apply**. Setting the time to zero prevents the camera from automatically returning to the Home position.

#### Preset Point



## Privacy Mask

Add / Edit Privacy mask A privacy mask can be created to conceal areas within the camera's view. The Privacy Mask List displays all the masks that are currently configured for the network camera and if they are enabled.

NOTE – A total of sixteen privacy masks can be created.

To create a new privacy mask:


- a. Use the Pan, Tilt (PT) controls or select Preset Point from the drop-down menu to steer the camera view to the required position.
- b. Click on Add. A rectangle will appear on the center of the viewing window.
- c. Use the mouse to resize the privacy mask window.
- d. Enter a descriptive name in Mask name, choose a color from the Privacy mask color drop-down menu and click Apply.

To edit a privacy mask, select the mask and reshape, move or change the color as needed.

## 9.2 Patrol Settings

The camera can be set to patrol a group of preset points. For each patrol group, the user can configure the preset point order, movement speed, and viewing duration.

To create a patrol group:

- a. Click on Add and enter a descriptive name in Description.
- b. Add preset points to the patrol group by clicking the  next to the desired preset point.
- c. Use the arrow buttons to change the order of the preset positions by using the Adjust the sequence of positions, and enter Movement Speed and Viewing Duration for each preset point.
- d. Click on Apply to save the patrol group.
- e. Enable a patrol set by clicking on Start/Stop.



NOTE

1. A total of sixteen preset points can be assigned to a patrol group.
2. A total of four patrol groups can be assigned to a network camera.

### Patrol Settings

Patrol Settings	
Description	Running
test	Stop

# 10. Network

## 10.1 IP Setting

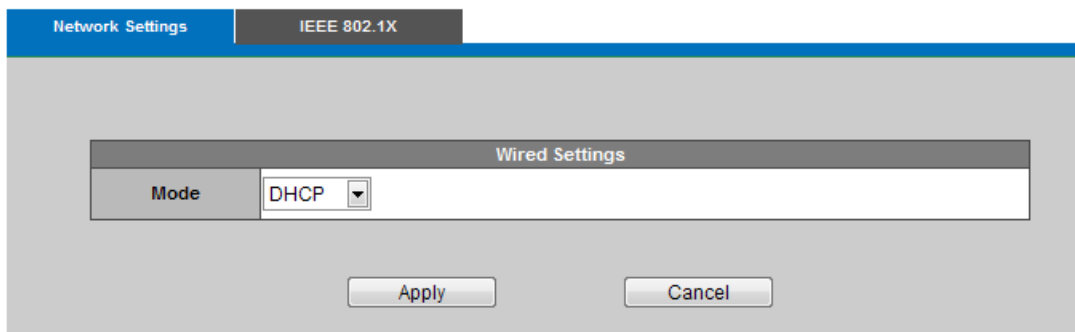
This section explains how to configure wired network connection for the Network Camera. There are several ways to setup the Network Camera over the Internet. The first way is to obtain an available dynamic IP address assigned by a DHCP server. The second way is to utilize a static IP. The third way is to use PPPoE.

### DHCP

If this option is selected, the camera will automatically obtain an available dynamic IP address from the DHCP server each time it connects to the LAN.

Click **Apply** or **Cancel** to take effect.

#### Network Settings



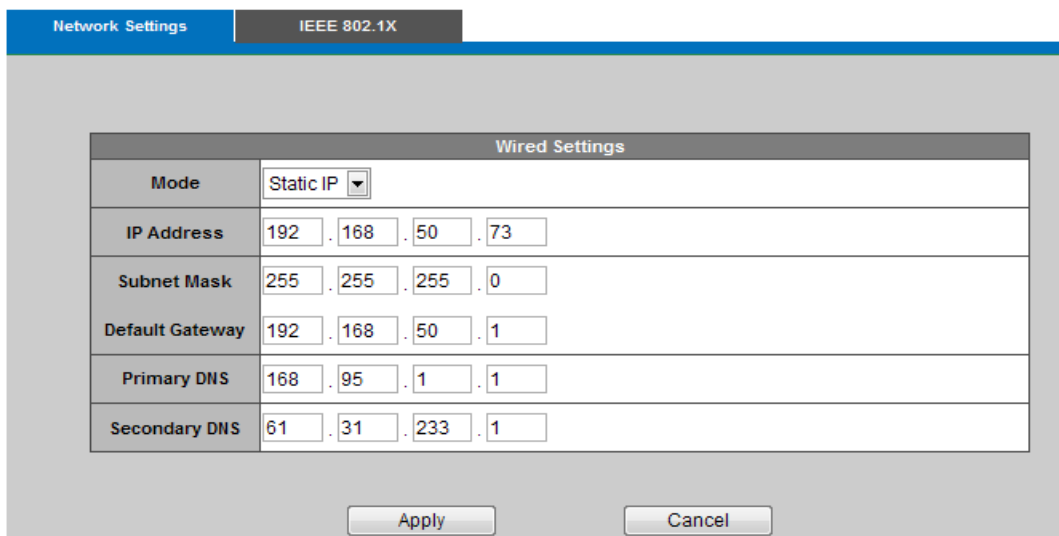
The screenshot shows the 'Network Settings' window with the 'IEEE 802.1X' tab selected. The 'Wired Settings' section is visible, with the 'Mode' dropdown menu set to 'DHCP'. Below the settings are 'Apply' and 'Cancel' buttons.

### Static IP

Select this option to manually assign a static IP address to the Network Camera. Enter the static IP address, Subnet mask, Default Gateway, Primary and Secondary DNS provided by your ISP.

Click **Apply** or **Cancel** to take effect.

#### Network Settings



The screenshot shows the 'Network Settings' window with the 'IEEE 802.1X' tab selected. The 'Wired Settings' section is visible, with the 'Mode' dropdown menu set to 'Static IP'. The following fields are filled in:

Wired Settings	
Mode	Static IP
IP Address	192 . 168 . 50 . 73
Subnet Mask	255 . 255 . 255 . 0
Default Gateway	192 . 168 . 50 . 1
Primary DNS	168 . 95 . 1 . 1
Secondary DNS	61 . 31 . 233 . 1

Below the settings are 'Apply' and 'Cancel' buttons.

## Network Settings

Network Settings		IEEE 802.1X	
Enable	<input type="checkbox"/>		
Protocol	EAP-TLS		
Username	<input type="text"/>		
Private Key Password	<input type="text"/>		
Client Certificate	<input type="text"/> 瀏覽...	Upload	No Client Certificate uploaded
CA Certificate	<input type="text"/> 瀏覽...	Upload	No CA Certificate uploaded

### PPPoE - (Point-to-point over Ethernet):

Choose this connection type if you are connected to the Internet via a DSL Line. Note that to utilize this feature, it requires an account provided by your ISP. Enter the user name and password provided by your ISP.

Click **Apply** or **Reset** to take effect.

### IP Settings

IP Settings	
Mode	PPPOE
Username	<input type="text"/>
Password	<input type="text"/>

## 10.2 Wireless Settings

This section explains how to configure wireless network connection.

Please Insert USB WUA-0606 150Mbps Wireless USB Adapter.

And then plug in the power the Reboot FCS-6010

### Wireless Settings

Click "Enable" to enable this function and Gateway which the camera will appear as on the Wireless  
Click **Apply** or **Cancel** to take effect.

#### Network Settings

The screenshot shows a web interface for network settings. At the top, there are two tabs: "Network Settings" (selected) and "IEEE 802.1X". Below the tabs, there are three main sections:

- Default Gateway Setting:** A row with "Gateway" on the left and a dropdown menu showing "Wireless".
- Wired Settings:** A row with "Mode" on the left and a dropdown menu showing "DHCP".
- Wireless Settings:** Two rows. The first row has "Enable" on the left and a checked checkbox. The second row has "Mode" on the left and a dropdown menu showing "DHCP".

At the bottom of the interface, there are two buttons: "Apply" and "Cancel".

## 10.3 UPnP

Universal Plug and Play (UPnP) simplifies the process of adding a Network Camera to a local area network. Once connected to a LAN, the camera will automatically appear on the intranet. Click "Enable" to enable this function and enter an UPnP name which the camera will appear as on the intranet.

Click **Apply** or **Cancel** to take effect.

#### UPnP

The screenshot shows a web interface for UPnP settings. At the top, there is a blue tab labeled "UPnP". Below the tab, there are two rows of settings:

- Enable:** A row with "Enable" on the left and a checked checkbox.
- UPnP Name:** A row with "UPnP Name" on the left and a text input field containing "FCS-6010-1163".

At the bottom of the interface, there are two buttons: "Apply" and "Cancel".



## 10.4 DDNS(dynamic domain name service)

### DynDNS

Enable the DynDNS to allow the Network Camera to have a fixed host and domain name. Enter the username, password and hostname.

Click **Apply** or **Reset** to take effect.

DynDNS		TZO
Enabled	<input type="checkbox"/>	
Username	<input type="text"/>	
Password	<input type="text"/>	
Hostname	<input type="text"/>	

**Apply** **Reset**

### TZO

TZO is a DDNS provider which allows users to create a dynamic DNS. Refer to the TZO website (<http://www.tzo.com/>) to apply a dynamic domain account. When an account has been created, enter the e-mail address, password and domain name.

Click **Apply** or **Reset** to take effect.

DynDNS		TZO
Enabled	<input type="checkbox"/>	
E-mail Address	<input type="text"/>	
TZO Password	<input type="text"/>	
Domain Name	<input type="text"/>	

**Apply** **Reset**

## 10.5 Easy Link

The IP camera had bundle with free Level1DNS™ service that allows user to remote access the IP camera via internet. The default domain name is MAC address, you can also register your own name on-line but it have to check the available first. The status will show the connection with Level1DNSTM service.

Notice: Please make sure the internet connection is ready first!

Click **Apply** or **Cancel** to take effect.

### EasyLink

EasyLink	
Enable	<input checked="" type="checkbox"/>
Domain Name	00116b711163.level1dns2.net <input type="button" value="Verify"/>
Refresh Time	1 Hour <input type="button" value="v"/>
Status	Cannot communicate with the router via UPnP protocol.

## 10.6 Wireless(Need to plug in USB WUA-0606 150Mbps Wireless USB Adapter)

### Basic Settings

Network Name (SSID) - The SSID is the network name shared among all points in a wireless network. The SSID must be identical for all devices in the wireless network. It is case-sensitive and can be up to 32 characters in length. Make sure this setting is the same for all points in your wireless network. Wireless devices have a default wireless network name or Service Set Identifier (SSID) set by the factory,. Level1 wireless products use Level1 as the default wireless network name. You should change the wireless network name to something unique to distinguish your wireless network from other wireless networks that may exist around you, but do not use personal information, because this information may be available for anyone to see when browsing for wireless networks.

### Security

Encryption protects data transmitted over a wireless network. Wi-Fi Protected Access (WPA-Personal/WPA2-personal) and Wired Equivalent Privacy (WEP) offer different levels of security for wireless communication. A network encrypted with WPA-Personal/WPA2-personal is more secure than a network encrypted with WEP, because WPA-Personal/WPA2-personal uses dynamic key encryption. To protect the information as it passes over the airwaves, you should enable the highest level of encryption supported by your network equipment.

Select the security method for your wireless network. If you do not want to use wireless security, keep the default, Disabled.

Click **Apply** or **Cancel** to take effect.

### Wireless Configuration

Basic Settings	Advanced Settings
Network Name (SSID)	LevelOne <span>Site survey</span>
Network Type	<input checked="" type="radio"/> Infrastructure mode <input type="radio"/> Ad-hoc mode
Security	Disable

**Apply** **Cancel**

Site Survey List

Click the Site Survey button to update the list.

## WEP

WEP is a basic encryption method that is not as secure as WPA.

Tx Key - Select a key from the drop-down menu.

WEP Encryption: Select a level of WEP encryption, 64 bits 10 hex digits or 128 bits 26 hex digits. The default is 64 bits 10 hex digits.

Key 1-4 - Enter the WEP key(s) manually

Authentication Type - The default is set to open system, which allows either Shared Key or Auto authentication to be used. With Open System authentication, the sender and the recipient do NOT use a WEP key for authentication. With Shared Key authentication, the sender and recipient use a WEP key for authentication.

Network Type - Select Infrastructure if your network consists of both wired and wireless devices that communicate through a central device, such as an access point. Select Ad-hoc if your network consists of only wireless devices that communicate with each other directly.

Click Apply or Reset to take effect.

### Site Survey

SSID Broadcast, when wireless clients survey the local area for wireless networks to associate with, they will detect the SSID broadcast of the camera.

Click **Apply** or **Cancel** to take effect.

## Wireless Configuration

Basic Settings		Advanced Settings	
Network Name (SSID)	LevelOne	<input type="button" value="Site survey"/>	
Network Type	<input checked="" type="radio"/> Infrastructure mode <input type="radio"/> Ad-hoc mode		
Security	WEP		
TX Key	1		
WEP Encryption	40/64 bits (10 hex digits)		
Key 1	<input type="text"/>		
Key 2	<input type="text"/>		
Key 3	<input type="text"/>		
Key 4	<input type="text"/>		
Authentication	Open System		
<input type="button" value="Apply"/> <input type="button" value="Cancel"/>			
Site Survey List			
Click the Site Survey button to update the list.			

## WPA-Personal

WPA supports two encryption methods, TKIP and AES, with dynamic encryption keys. Select the type of algorithm, TKIP or AES. The default is TKIP.

Shared Key - Enter the key shared between the Router and the server keys. Enter a passphrase of 8-63 characters.

Network Type - Select Infrastructure if your network consists of both wired and wireless devices that communicate through a central device, such as an access point. Select Ad-hoc if your network consists of only wireless devices that communicate with each other directly.

Click **Apply** or **Cancel** to take effect.

## Wireless Configuration

Basic Settings		Advanced Settings	
Network Name (SSID)	LevelOne	<input type="button" value="Site survey"/>	
Network Type	<input checked="" type="radio"/> Infrastructure mode <input type="radio"/> Ad-hoc mode		
Security	WPA-Personal ▼		
Encryption	TKIP ▼		
Shared Key	<input type="text"/> (8 to 63 characters)		
<input type="button" value="Apply"/>		<input type="button" value="Cancel"/>	
Site Survey List			
Click the Site Survey button to update the list.			

## WPA2-Personal

WPA2 supports AES encryption methods with dynamic encryption keys.

Shared Key - Enter the key shared between the Router and the server keys. Enter a pass phrase of 8-63 characters.

NOTE: If you are using WPA or WPA2, each device in your wireless network MUST use the same WPA or WPA2 method and shared key, or else the network will not function properly.

Click **Apply** or **Cancel** to take effect.

## Wireless Configuration

The screenshot shows a web interface for wireless configuration. At the top, there are two tabs: 'Basic Settings' (selected) and 'Advanced Settings'. Below the tabs is a table with the following fields:

Network Name (SSID)	LevelOne	Site survey
Network Type	<input checked="" type="radio"/> Infrastructure mode <input type="radio"/> Ad-hoc mode	
Security	WPA2-Personal	
Encryption	AES	
Shared Key		

Below the table are two buttons: 'Apply' and 'Cancel'. At the bottom, there is a 'Site Survey List' section with a message: 'Click the Site Survey button to update the list.'

## Advanced Settings

Network Mode - From this drop-down menu, you can select the wireless standards running on your network. If you have both Wireless-B, Wireless-G and Wireless-N (2.4GHz) devices in your network, keep the default setting, Mixed. If you have both Wireless-B, Wireless-G devices in your network, select BG-Mixed. If you have only Wireless-B devices, select Wireless-B Only. If you have only Wireless-G devices, select Wireless-G Only. If you have only Wireless-N (2.4GHz) devices, select Wireless-N Only.

Radio Band - The settings are available for the Auto-20/40MHz channel and Standard-20 MHz channel. The Auto-20/40MHz channel set up a network using the 20/40MHz band, and the Standard-20 MHz channel set up a network using the 20 MHz band.

Enable WMM (802.1e QoS) - WMM is a wireless Quality of Service feature that improves quality for audio, video, and voice applications by prioritizing wireless traffic. To use this feature, your wireless client devices in your network must support Wireless WMM. If you would like to disable this feature, select Disabled. Otherwise, keep the default, Enabled.

Click **Apply** or **Cancel** to take effect.

## Wireless Configuration

Basic Settings		Advanced Settings
Network Mode	BGN-Mixed	
Radio Band	Auto-20/40MHz Channel	
WMM (802.1e QoS)	Disable	

## 10.7 HTTP/HTTPS

**HTTP** - This protocol allows the same quality as TCP protocol without needing to open specific ports for streaming under some network environments. Users inside a firewall can utilize this protocol to allow streaming data through.

**HTTPS** - (Hypertext Transfer Protocol over SSL): This section explains how to enable authentication and encrypted communication over SSL (Secure Socket Layer). It helps protect streaming data transmission over the Internet on higher security level than HTTP.

Click **Apply** or **Cancel** to take effect.

### HTTP/HTTPS

HTTP/HTTPS	
<b>HTTP</b>	
Enable	<input checked="" type="checkbox"/>
Port	80
<b>HTTPS</b>	
Enable	<input type="checkbox"/>
Port	443

# 11. Event

## 11.1 Motion Detection

Motion Detection Motion can be detected by measuring changes in the speed or vector of an object or objects in the monitored area. This section explains how to configure the Network Camera to enable motion detection.

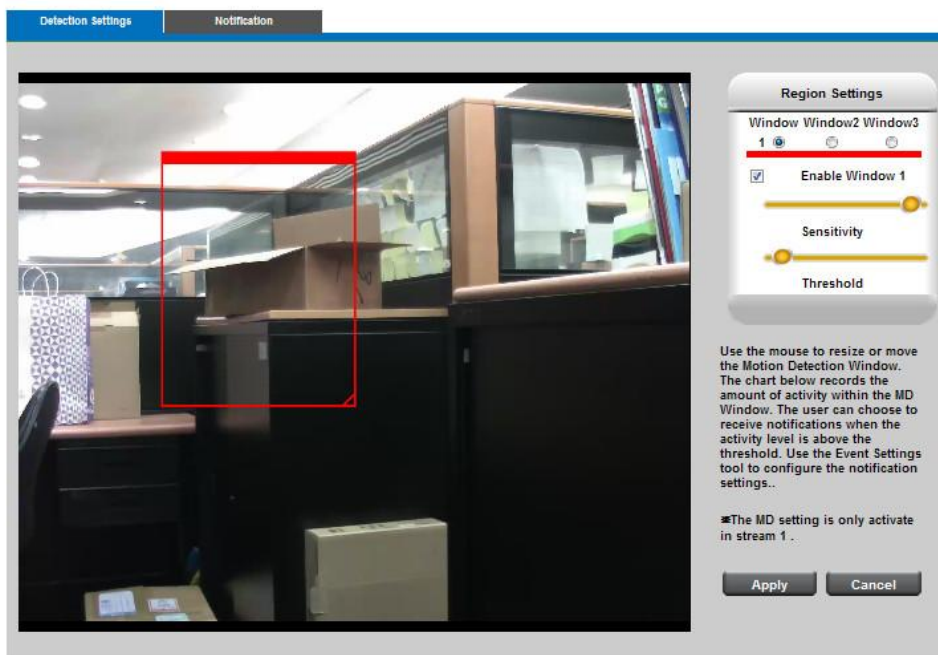
### Detection Settings

Use this setting to enable and define the motion detection windows. The user can defined up to three areas on the live view window for motion detection.

1. Select < Win1 >, < Win2 >, or < Win3 > to adjust the motion detection window.
2. Check the box to enable the window.
3. Use the mouse to resize or move the motion detection window.
4. Adjust the Sensitivity level. Lower sensitivity levels will result in more activity needed to trigger an event.
5. Adjust the Threshold to change the threshold level. The higher the threshold level, the larger size of the object is needed to trigger an event.
6. The chart below the Live View window indicates the activity level of the Motion Detection window. When motion is detected by the network camera and exceeds the defined threshold, a red bar will appear. Users can use this feature as a trigger source to send photos or videos to a remote server via email or FTP.

Click **Apply** or **Reset** to take effect.

Motion Detection



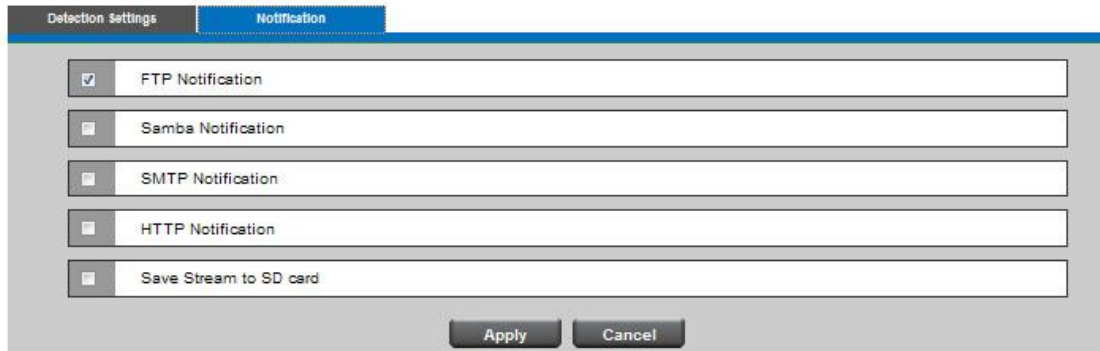


## Notification

To react in response to particular events. A typical application is that when motion is detected, the Network Camera sends buffered images to a FTP server, SMTP or Samba as notifications. In this page, you can specify which notification messages will be sent when a trigger is activated.

Click **Apply** or **Cancel** to take effect.

### Motion Detection



The screenshot shows a web interface for configuring notification settings. At the top, there are two tabs: "Detection Settings" and "Notification". The "Notification" tab is active. Below the tabs, there are five rows, each with a checkbox and a label: "FTP Notification" (checked), "Samba Notification", "SMTP Notification", "HTTP Notification", and "Save Stream to SD card". At the bottom of the interface, there are two buttons: "Apply" and "Cancel".

## 11.2 Notification Settings

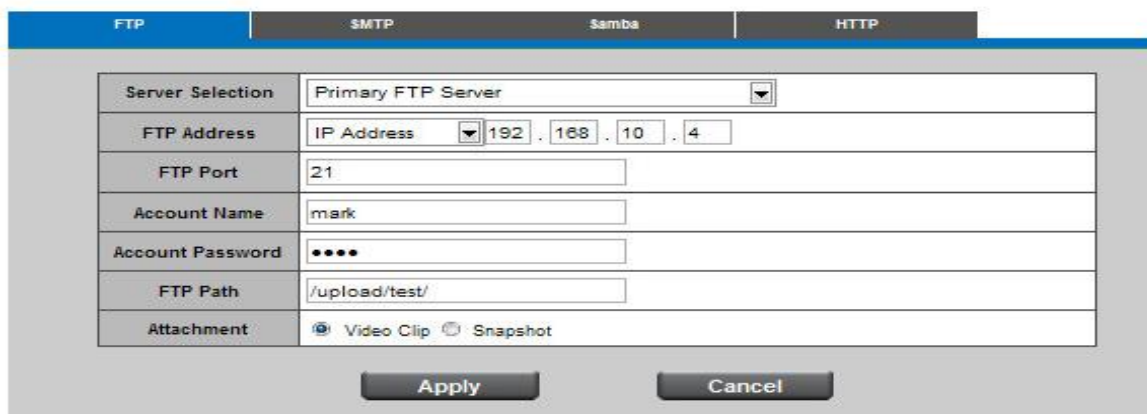
When an event is triggered, the user can specify what kind of action will be performed. The actions include sending a video clip to an email address, FTP site, or Samba. There are two choices of media types available: video clip and snapshot.

### FTP

File Transfer Protocol (FTP) is used as an application component to automatically transfer files for program internal functions. Select "Primary FTP Server" from the Server Selection drop down menu to send media files to a FTP server when an event is triggered. Enter the FTP IP address or hostname. By default, the FTP port server is set to 21. Enter the account name, password and FTP Path to configure the settings.

Click **Apply** or **Cancel** to take effect.

### Notification Settings



The screenshot shows a web interface for configuring FTP notification settings. At the top, there are four tabs: "FTP", "SMTP", "Samba", and "HTTP". The "FTP" tab is active. Below the tabs, there is a table with the following fields:

Server Selection	Primary FTP Server
FTP Address	IP Address 192 . 168 . 10 . 4
FTP Port	21
Account Name	mark
Account Password	••••
FTP Path	/upload/test/
Attachment	<input checked="" type="radio"/> Video Clip <input type="radio"/> Snapshot

At the bottom of the interface, there are two buttons: "Apply" and "Cancel".

## SMTP

Select "Primary Email Server" option from the Server Selection drop down menu to send media files to an email server when an event is triggered.

SMTP Server - Enter the server host name of the email server.

SMTP Port - Enter the Port number of the email server. By default, the SMTP Port is set to 25.

Authentication - Select the authentication type from the drop-down menu.

Email Account - Enter the username of the email account if necessary.

Email Password - Enter the password of the email account if necessary.

## SMTP Server and Port number

Enter the server host name and Port number of the email server.

## Authentication

Select the authentication type from the drop-down list.

## Email Account

Enter the user name of the email account if necessary.

## Email Password

Enter the password of the email account if necessary.

### Notification Settings

FTP	SMTP	Samba	HTTP
From	<input type="text"/>		
To	<input type="text"/>		
CC	<input type="text"/>		
Sender's Name	<input type="text"/>		
Subject	<input type="text"/>		
Attachment	<input type="radio"/> Video Clip <input checked="" type="radio"/> Snapshot		
Server Selection	Primary Email Server <input type="button" value="v"/>		
SMTP Server	<input type="text"/>		
SMTP Port	25 <input type="text"/>		
Authentication	LOGIN <input type="button" value="v"/>		
Email Account	<input type="text"/>		
Email Password	<input type="text"/>		

## Samba

Select this option to send the media files via the network neighborhood when an event is triggered.

Server Address - Enter the IP address of the Samba server.

Username - Enter the username of the Samba server.

Password - Enter the password of the Samba server.

Workgroup - Enter the workgroup of the Samba server.

Shared DIR - Enter the shared DIR of the Samba server.

Select this option to send the media files via an HTTP notification when an event is triggered.

### Notification Settings

The screenshot shows a dialog box titled "Notification Settings" with four tabs: FTP, SMTP, Samba (selected), and HTTP. The Samba tab contains the following fields:

Server Address	IP Address [dropdown] 0 . 0 . 0 . 0
User Name	guest
Password	*****
WorkGroup	
Shared Folder	
Attachment	<input type="radio"/> Video Clip <input checked="" type="radio"/> Snapshot

At the bottom of the dialog are two buttons: "Apply" and "Cancel".

## HTTP

Specify the URL to send HTTP requests. The URL is normally written as follows:

http://IP\_address/ notification.cgi xxx parameter

IP\_ address - type the IP address or host name of the host to which you want to connect.

Parameter - type the notification parameter if necessary.

### Example

URL: http://192.168.1.1/xxxx.cgi

Message: name1=value1&name2=vlaue2

Result: http://192.168.1.1/xxxx.cgi? name1=value1&name2=vlaue2

## EX

http://192.168.1.1/notification.cgi?event=MD&camera=FB-100A

Message - Enter the message notification that will be sent when an event is triggered.

Enter the user name and password if necessary.

Click **Apply** or **Cancel** to take effect.

## Notification Settings

FTP	SMTP	Samba	HTTP
URL	<input type="text"/>		
Message	<input type="text"/>		
User Name	<input type="text"/>		
Password	<input type="text"/>		

### 11.3 Scheduled Event

Click New to open the recording setting page. In this page, the user can define the recording schedule and recording capacity.

Name - Enter a descriptive name for the recording setting.

Event - Select the event type from the drop-down menu

Time - Specify the recording duration.

#### Scheduled Event

Schedule						
Enable	Name	Event	Start	End	Date	Action

### 11.4 DI/DO

Digital Input - The DI socket allows the IP camera to receive input from an external device.

The external device should have the ability to drive voltage on the connected DI wire to the triggering voltage level in order to notify the IP camera of any event of interest. The IP camera will then process the event notification according to the specific event rules.

Triggering voltage Level: LOW, HIGH, Rising and Falling.

Users should select the option according to the capability of their external device.

Digital Output - The DO socket allows the IP camera to send output to an external device. While executing the DO notification action, the IP camera drives voltage on the connected DO wire to the triggering voltage level for X number of seconds. The connected external device will then be triggered for X number of seconds.

Triggered Voltage Level - OPEN or GROUND

Users should select the option according to the specification of their external device.

Click **Apply** or **Cancel** to take effect.

## D/DO

Digital Input	Low (Current status: High)
Digital Output	Grounded Duration 5 Sec (Current status: High)

Apply Cancel

## 12. System

### 12.1 System Log

Set up the network camera to record a system log when an event is triggered.

This page displays the system's log in chronological order. The system log is stored in the network camera's buffer area and will be overwritten when the buffer area is full.

Click Retrieve to retrieve the log or Save to file to save the file to a specified location.

#### System Log

```
LOG_INFO-stream :Channel [1] stopped streaming to host [192.168.50.181], Mon Nov 7 11:11:52 2011
LOG_INFO-stream :Channel [1] started streaming to host [192.168.50.181], Mon Nov 7 11:11:09 2011
LOG_INFO-stream :Channel [1] stopped streaming to host [192.168.50.181], Mon Nov 7 11:11:07 2011
LOG_INFO-stream :Channel [1] started streaming to host [192.168.50.181], Mon Nov 7 11:11:06 2011
LOG_INFO-stream :Channel [1] stopped streaming to host [192.168.50.181], Mon Nov 7 11:05:02 2011
LOG_INFO-stream :Channel [1] started streaming to host [192.168.50.181], Mon Nov 7 11:04:45 2011
LOG_INFO-stream :Channel [1] stopped streaming to host [192.168.50.181], Mon Nov 7 11:04:42 2011
LOG_INFO-stream :Channel [1] started streaming to host [192.168.50.181], Mon Nov 7 11:04:42 2011
LOG_INFO-stream :Channel [1] stopped streaming to host [192.168.50.181], Mon Nov 7 11:01:23 2011
LOG_INFO-stream :Channel [1] started streaming to host [192.168.50.181], Mon Nov 7 11:01:00 2011
LOG_INFO-stream :Channel [1] stopped streaming to host [192.168.50.181], Mon Nov 7 11:00:58 2011
LOG_INFO-stream :Channel [1] started streaming to host [192.168.50.181], Mon Nov 7 11:00:57 2011
LOG_INFO-stream :Channel [1] stopped streaming to host [192.168.50.181], Mon Nov 7 11:00:22 2011
LOG_NOTICE-FtpUpload :Event triggered: notification sent to FTP server [192.168.10.4], Mon Nov 7 10:59:07 2011
LOG_NOTICE-FtpUpload :Event triggered: notification sent to FTP server [192.168.10.4], Mon Nov 7 10:58:56 2011
LOG_NOTICE-FtpUpload :Event triggered: notification sent to FTP server [192.168.10.4], Mon Nov 7 10:58:49 2011
LOG_INFO-stream :Channel [1] started streaming to host [192.168.50.181], Mon Nov 7 10:58:33 2011
LOG_INFO-stream :Channel [1] stopped streaming to host [192.168.50.181], Mon Nov 7 10:58:31 2011
LOG_INFO-stream :Channel [1] started streaming to host [192.168.50.181], Mon Nov 7 10:58:30 2011
LOG_NOTICE-WebServer :User [admin] logged in to [web server], Mon Nov 7 10:58:07 2011
LOG_INFO-stream :Channel [1] stopped streaming to host [192.168.50.181], Mon Nov 7 10:58:07 2011
LOG_INFO-stream :Channel [1] started streaming to host [192.168.50.181], Mon Nov 7 10:58:06 2011
LOG_NOTICE-FtpUpload :Event triggered: notification sent to FTP server [192.168.10.4], Mon Nov 7 10:58:02 2011
```

Retrieve Save to File

## 12.2 Date and Time

Manual : Manually enter the date and time.

Clone from PC : The camera will sync with the time and date of the computer. Check "Clone" to utilize this option. The read-only date and time of the PC is displayed as updated.

NTP : (Network Time Protocol) - NTP is a protocol for synchronizing the clocks of a computer system. Select to update the time with a NTP server on an hourly, daily, weekly, or monthly basis.

Time Zone : Select the preferred time zone from the drop-down menu.

NTP Server 1 and Server 2: Enter the address of the NTP server.

Daylight Saving: Enable this option to automatically update Daylight Saving Time changes.

Click **Apply** or **Cancel** to take effect.

### Date and Time

Date and Time	
Manual	Year <input type="text" value="2011"/> Month <input type="text" value="11"/> Day <input type="text" value="7"/> Hour <input type="text" value="10"/> Minutes <input type="text" value="25"/> Second <input type="text" value="47"/>
	Year <input type="text" value="2011"/> Month <input type="text" value="11"/> Day <input type="text" value="8"/> Hour <input type="text" value="17"/> Minutes <input type="text" value="15"/> Second <input type="text" value="14"/>
Clone from PC	<input type="checkbox"/> Clone
NTP	TimeZone <input type="text" value="(GMT+08:00)Taipei"/>
	NTP Server 1 <input type="text" value="tick.stdtime.gov.tw"/>
	NTP Server 2 <input type="text" value="clock.stdtime.gov.tw"/>
	Daylight Saving <input type="checkbox"/> Enable

## 12.3 Device Information

### System information

Displays the complete system information of the network camera.

#### Device Information

System Information	Network Settings	Video/Audio Settings
Lan MAC Address	00:11:6b:71:11:63	
Firmware Version	v1.0.0.10	
Firmware Release Date	2011-11-04	
Product Name	FCS-6010	
Model Number	6010	
Company Name	Level One	
Comments	Day/Night 1.3-Megapixel P/T PoE Network Camera	
UPnP Name	FCS-6010-1163	

### Network Settings

Displays the complete network settings information of the network camera.

#### Device Information

System Information	Network Settings	Video/Audio Settings
IP Setting Type	DHCP	
IP Address	192.168.50.73	
Subnet Mask	255.255.255.0	
Default Gateway	192.168.50.1	
Primary DNS	168.95.1.1	
Secondary DNS	61.31.233.1	
UPnP	Enabled	
DynDNS	Disabled	
TZO	Disabled	

### Video/Audio Settings

Displays the complete video/audio settings information of the network camera.

## Device Information

System Information		Network Settings		Video/Audio Settings	
Stream 1					
Video Codec	H264				
Video Resolution	1280x1024(WXGA)				
Video Frame Rate	30 fps				
Video Bitrate	1500 Kbps				
Audio Codec	G.711				
Multicast IP	N/A				
Stream 2					
Video Codec	MJPEG				
Video Resolution	1280x1024(WXGA)				
Video Frame Rate	25 fps				
Video Quality	3				
Audio Codec	N/A				
Multicast IP	N/A				

## 12.4 Storage Management

### Storage Management

Storage Management is used to view the recorded files on the Micro-SD card.

#### Storage Management

Storage Management		Advanced Settings	
Local Storage Information			
Item	SD Card		
Total Capacity	0KB		
Used Space	0KB		
Available Space	0KB		
Memory Card Management	<input type="button" value="Reload"/>		

Click Reload to refresh the list of recorded files.



## Advanced Settings

### Storage Management

The screenshot shows a dialog box titled "Storage Management" with a sub-tab "Advanced Settings". It contains two sections: "Automatic Recycle" and "Offline Record".

Automatic Recycle	
Enable	<input checked="" type="checkbox"/>

Offline Record	
Enable	<input type="checkbox"/>

If the Automatic Recycle function is disabled, there must be at least 50MB Hard Drive space available for the network camera to record video.  
If the Automatic Recycle function is enabled, it will automatically overwrite the recorded files when the available space remaining is less than 100MB.

Buttons: Apply, Cancel

## 12.5 LED Indicators

The LED on the front of the camera can be configured to remain unlit to prevent detection when the camera is recording. Check Off to enable this function.

Click **Apply** or **Cancel** to take effect.

### LED Indicators

The screenshot shows a dialog box titled "LED Indicators" with a sub-tab "LED Indicators Configuration".

LED Indicators Configuration	
Off	<input type="checkbox"/>

Buttons: Apply, Cancel

## 13. Maintenance

### 13.1 User Management

This section can be used to enable password protection and create multiple user accounts.

#### Privilege Settings

Enter the new user's name and password. Select the privilege level for new user account. Click Add to take effect. The administrator account name is "admin", which is permanent and can not be deleted. Administrators can add up to 10 user accounts.

Select the privilege level for new user accounts. Privilege levels can be assigned as:

Administrator - user has access to view and change the Configuration page. Users with administrator privilege can change other user's access rights and delete user accounts. Click Delete or Update to

delete or modify a user's account.

Viewer - user can only access the Live View page.

Remote Viewer - user can only access the Live View page using TCP protocol.

#### User Management

The screenshot shows the 'Privilege Settings' interface. At the top, there is an 'Enable' section with a checked checkbox and an 'Apply' button. Below this is a table with the following columns: Index, User Name, Password, Confirm Password, Privilege, and Action. The table contains six rows of user entries.

Index	User Name	Password	Confirm Password	Privilege	Action
1	admin	•••••	•••••	Administrator	Add Delete Update
2	viewer	•••••	•••••	Viewer	Add Delete Update
3	rviewer	•••••	•••••	Remote Viewer	Add Delete Update
4				Viewer	Add Delete Update
5				Viewer	Add Delete Update
6				Viewer	Add Delete Update

## 13.2 IP Filter

Enable the IP filter and select to allow or deny a range of IP addresses access to the server. Click Add to List to add the IP range to the IP filter list.

Click **Apply** or **Cancel** to take effect.

#### IP Filter

The screenshot shows the 'IP Filter' configuration page. It features three radio buttons: 'Enable IP Filter' (checked), 'Allow Access List', and 'Deny Access List'. Below these is a form for adding an IP range, with 'From' and 'To' fields (each containing four input boxes for IP octets) and an 'Add to List' button. At the bottom, there are 'Apply' and 'Cancel' buttons.

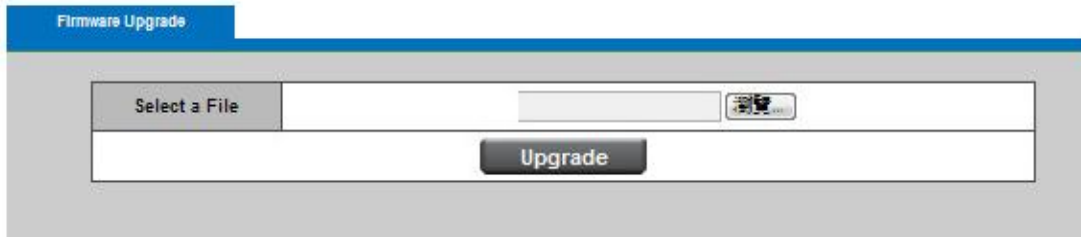
### 13.3 Firmware Upgrade

This feature allows the user to upgrade the Network Camera's firmware. It will take a few minutes to complete the process.

#### Upgrade

Click Browse and specify the firmware file. Click Upgrade. The Network Camera will begin to upgrade the firmware and will reboot automatically when the upgrade is complete.

#### Firmware Upgrade



The screenshot shows a web interface for firmware upgrade. At the top, there is a blue tab labeled 'Firmware Upgrade'. Below the tab is a form area. On the left side of the form, there is a label 'Select a File'. To the right of this label is a text input field and a file selection icon. Below the input field and icon is a large, dark button labeled 'Upgrade'.

### 13.4 Configuration

This feature allows the user to export/import the configuration files of the network camera.

#### Import / Export

Click Export to export the network camera's configuration files. A window will pop up and the user can select the location and file to export. Click Browse to select the location and file of the camera configuration and click Import to import the configuration file back into the network camera.

#### Configuration



The screenshot shows a web interface for configuration management. At the top, there is a blue tab labeled 'Import / Export'. Below the tab is a form area. On the left side of the form, there are two sections: 'Export' and 'Import'. The 'Export' section has a dark button labeled 'Export'. The 'Import' section has a label 'Please select a file to import', a text input field, a file selection icon, and a dark button labeled 'Import'.

## 13.5 Reset to Default

Click **Reset** to restore the network camera to factory default settings.



## 13.6 Reboot

This feature will reboot the Network Camera. Click **Reboot** to reboot the Network Camera.

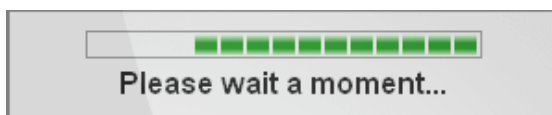
A message will pop up asking “The device will reboot. Are you sure?” Click “OK” to continue.

The camera will take about one minute to reboot.

### Reboot



The following message will show during the rebooting process.



When completed, the live video page will be displayed in the web browser.