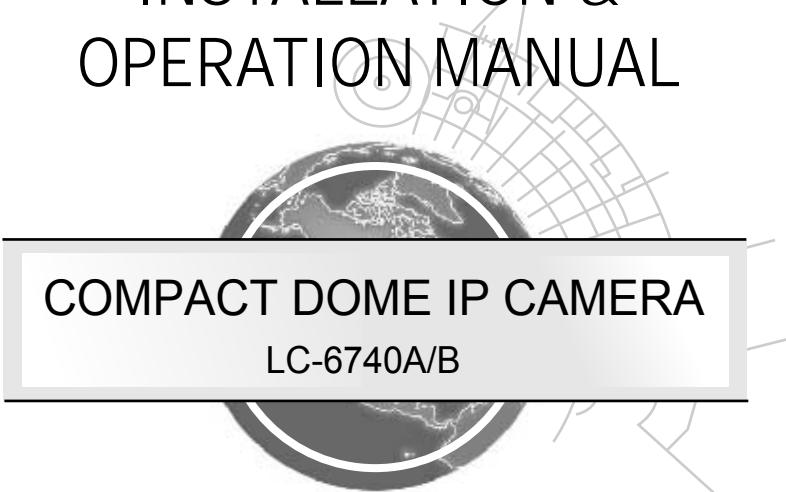




# INSTALLATION & OPERATION MANUAL



**COMPACT DOME IP CAMERA**  
LC-6740A/B



**APPRO®**

Before trying to connect or operate this product, please read this manual completely



# Table Of Contents

<b>SAFETY PRECAUTIONS .....</b>	<b>3</b>
<b>1. PRODUCT FEATURES.....</b>	<b>4</b>
1.1 PRODUCT INSTRUCTIONS .....	4
1.2 PRODUCT FEATURES .....	4
<b>2. DESCRIPTION OF THE SURFACE .....</b>	<b>5</b>
2.1 THE COMPACT DOME CAMERA OVERVIEW.....	5
2.2 THE RESET BUTTON .....	8
<b>3. INSTALLATION .....</b>	<b>9</b>
3.1 HARDWARE INSTALLATION .....	9
3.2 MOUNTING AND POSITIONING THE COMPACT DOME .....	10
3.3 UPDATING SYSTEM SOFTWARE .....	12
<b>4. Network Configuration.....</b>	<b>13</b>
4.1 CABLE CONNECTIONS.....	13
4.1.1 Connect to a computer .....	13
4.1.2 Connect to a LAN Hub (INTRANET) .....	13
4.2 CONFIGURE YOUR IP CAMERA NETWORK SETTINGS .....	14
4.2.1 Set IP Address .....	14
4.3 TCP/IP COMMUNICATION SOFTWARE .....	15
4.4 TCP/IP INSTALLATION .....	17
4.5 TCP/IP CONFIGURATION SETTING .....	18
4.6 CONNECTION TESTING.....	19
<b>5. Configuration Using A Web Browser .....</b>	<b>21</b>
5.1 MICROSOFT INTERNET EXPLORER .....	22
5.1.1 Connecting the IP camera.....	22

5.1.2 Live Video.....	23
5.1.3 Setup .....	25
<b>6. ADVANCED OPERATION.....</b>	<b>79</b>
<b>7. SPECIFICATIONS.....</b>	<b>82</b>
<b>8. Functions of client PC.....</b>	<b>84</b>
<b>APPENDIX 1. –How to run IP Camera UPnP .....</b>	<b>85</b>

## SAFETY PRECAUTIONS

All the following safety and operational instructions to prevent harm or injury to the operator(s) or other persons should be read carefully before the unit is activated.

### WARNING

- To prevent fire or shock hazard, avoid exposing this unit to rain or moisture.
- Do not block ventilation openings.
- Do not place anything on top of the unit that might spill or fall into it.
- Do not attempt to service this unit yourself, as opening or removing covers may expose you to dangerous voltage or other hazards. Please refer all servicing to your distributor/ retailer.
- Do not use liquid cleaners or aerosols for cleaning.
- To prevent fire or electric shock, do not overload wall outlets or extension cords.
- PoE warning : If the PoE injector is used instead of the supplied power adaptor, all of the wiring to and from the injector must be routed/ installed inside a building/ plant and never routed/ installed outside of the building/ plant.
- Please only select a power adapter or power certified by UL and marked at 24Vac / 60 Hz, minimum 1A, class 2 or LPS.

### CAUTION

RISK OF EXPLOSION IF BATTERY IS REPLACED BY AN INCORRECT TYPE.  
DISPOSE OF USED BATTERIES ACCORDING TO THE INSTRUCTIONS.

#### FCC Notices

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

CAUTION: Change or modification not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. 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. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

#### CAUTION:

Any changes or modifications not expressly approved by the grantee of this device could void the user's authority to operate the equipment.

#### RF exposure warning

This equipment must be installed and operated in accordance with provided instructions and the antenna(s) used for this transmitter must be installed to provide a separation distance of at least 20 cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter. End-users and installers must be provide with antenna installation instructions and transmitter operating conditions for satisfying RF exposure compliance."

## 1. PRODUCT FEATURES

### 1.1 Product Instructions

Here's a new series from us -- cameras that act as basic watchguards in your premises -- lightweight, simple formatted, inexpensive, and no fuss to install.

These watchkeepers are the ideal stuff for the safety of your home and office interiors.

Our compact dome camera LC-6740 brings you dependable video surveillance in a focused & targetted environment.

The dynamically effective sensor has a resolution of 720P. Our compact dome camera comes with a Fixed Focal Board Lens f:3.6mm/ F1.8 ranging over a spectrum of indoor and outdoor applications. It's your genuine plug n play device with easily adjusted settings.

Smooth to configure and operate, our camera comes with the Universal Plug -n -Play feature which gets computers running on Windows XP / Vista / 7 to automatically recognize the camera and add it to the network.

The compact dome camera offers support for Power over Ethernet (PoE ), so you can put the device in places which have no power outlets close by.

In addition it provides an intelligent web based interface, remote monitoring, and motion detection for comprehensive and affordable residence -cum -office security and safety.

Its wireless capability (for the Wi-Fi model only) means you can site your camera in any place within range of your wireless network. In addition it provides an intelligent web based interface, remote monitoring, and motion detection for comprehensive and affordable residence -cum -office security and safety.

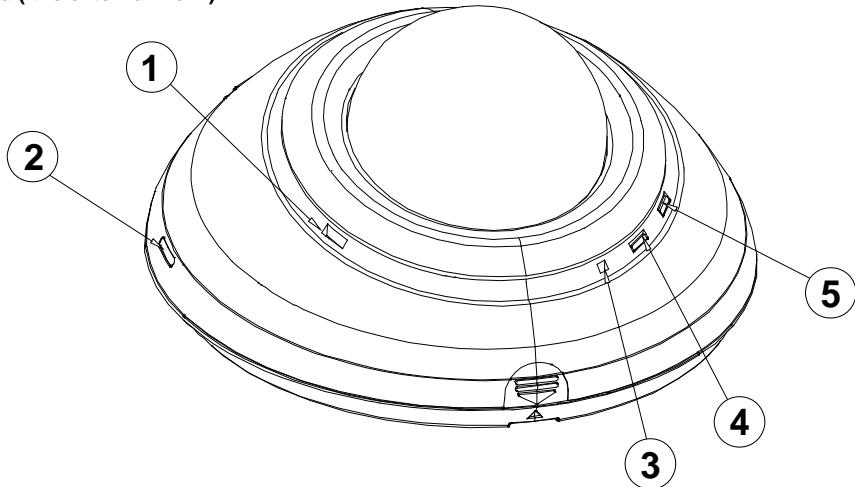
### 1.2 Product Features

- Simultaneous H.264 and MJPEG video compressions.
- Multi-profile applications: Selectable resolutions, frame rates, video qualities, and compression.
- Advanced motion detection (512 zones, sensitivity: 0~100 %).
- Supports ONVIF.

## 2. DESCRIPTION OF THE SURFACE

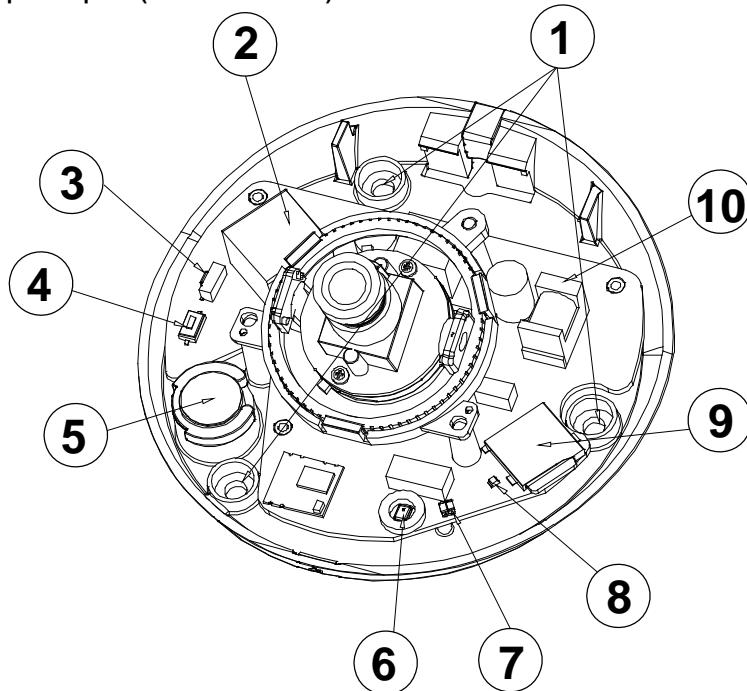
### 2.1 The Compact dome Camera Overview

Camera ( the external view ).



1. **Speaker:** Connector is used to connect the audio output from other devices to the camera.
2. **WPS button** (for the Wi-Fi model only).
3. **Microphone:** The built-in microphone records audio of the surrounding area.
4. **LED indicator:** The Power and network indicator.
5. **LED indicator:** The WPS indicator (for the Wi-Fi model only).

The component parts ( the internal view ).



1. **Screw holes:** Guide to assist correct casing alignment with the cable channel.
2. **ETHERNET 10/100 Connector:** This is a standard RJ-45 connector for 10/100 Mbps Ethernet networks. PoE (Power over Ethernet) function: Provides power to the device via the same cable as used for the network connection.
3. **WPS button** (for the Wi-Fi model only).
4. **Reset button:** Recover to factory default.
5. **Speaker:** Connector is used to connect the audio output from other devices to the camera.
6. **Microphone:** The built-in microphone records audio of the surrounding area.
7. **LED indicator:** The Power and network indicator.
8. **LED indicator:** The WPS indicator (for the Wi-Fi model only).
9. **Micro SD CARD slot:** Insert a Micro SD card for Local storage for storing recorded image and video. This is used for updating system software and archiving / accessing critical images.
10. **DC-in:** Connects to 12V DC power.

## How to install an SD card?

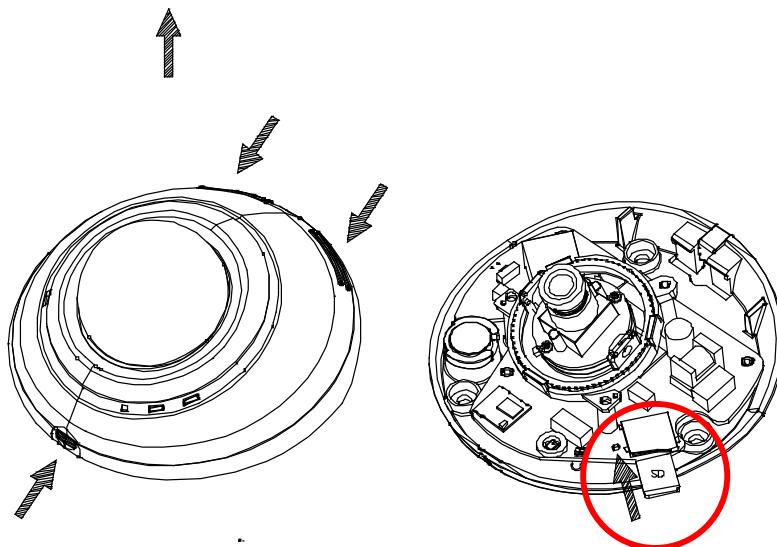
**Step 1:** Place the camera face down on a non-slip flat surface.

**Step 2:** Open the camera enclosure. Lift the dome off the base of the camera.

**Step 3:** Push the SD card into the camera with the gold contacts oriented towards the base of the camera. To eject the SD card, push the SD card into the slot.

**Step 4:** Replace the dome enclosure ensuring a tight fit.

**NOTE:** To ensure that the camera stays weatherproof, users are advised to ensure that the weatherproof sheath is secured firmly in place.



## 2.2 The Reset Button

You can use the **Reset** button to reset the camera operations back to default. Press the Reset button for about **10** seconds. Blue screens of the analog output are displayed, and a text saying **RESETTING...** appears.

### [SETUP]

#### Network Setup

- a. LAN Settings (You can manually reset this function by yourself.)
- b. PPPOE Settings (You can manually reset this function by yourself.)

#### Dynamic DNS

- a. DYNAMIC DNS SETTING (You can manually reset this function by yourself.)

#### IMAGE SETUP

- a. VIEWER TYPE
- b. IMAGE SETTINGS

#### AUDIO AND VIDEO

- a. VIDEO PROFILE 1
- b. AUDIO SETTINGS

#### MOTION DECTION

- a. Video Motion setting

#### TIME AND DATE

- a. TIME CONFIGURATION
- b. AUTOMATIC TIME CONFIGURATION
- c. SET DATE AND TIME MANUALLY

#### Event Setup

- a. Server
- b. Media
- c. Event
- d. Recording

### [ADVANCED]

#### LED

- a. LED

#### ICR

- a. ICR

#### HTTPS

- a. HTTPS

#### Access List

- a. Allow List
- b. Deny List

### **3. INSTALLATION**

Please follow the instructions and the diagram below to set up the system.

#### **3.1 Hardware Installation**

1. Plug in the power connection to the IP camera.
2. Plug in the IP camera cable.
3. Confirm the correct network connection status (PC/ HUB/ IP camera).
4. In the PC IE Browser, key in the camera's IP online to link up to the live first page.

### 3.2 Mounting and Positioning the Compact dome

**Camera Mounting:** (refer to Figure3.2.1~3.2.6)

**Step 1:** Position the alignment sticker in the desired location for the camera.

**Step 2:** Use a 6mm drill bit to make required holes approximately 25mm deep.

**Step 3:** Insert wall anchors.

**Step 4:** Affix the camera base using the screws provided.

**Step 5:** Adjust the Lens.

**Step 6:** Affix the dome using the screws provided.

**Step 7:** Insert the weatherproof rubber screw coverings over the screws ensuring a tight seal.

**Step 8:** Using the Ethernet cable connect to the Ethernet port. Connect the other end of the Ethernet cable your network. If you are using a PoE hub, connect the IP camera to the hub via an Ethernet cable, which will provide transmission of both power and data over a single cable.

**Step 9:** Connection with 12V DC Power Adaptor.

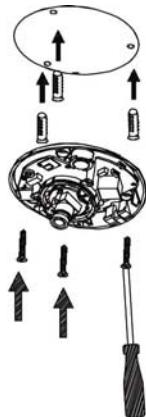


Figure 3.2.1

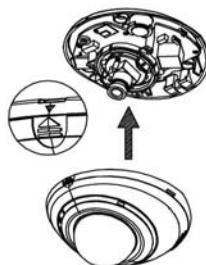


Figure 3.2.2

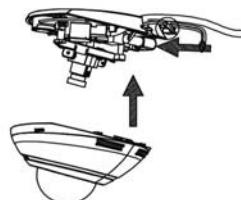


Figure 3.2.3

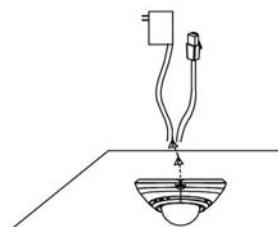


Figure 3.2.4

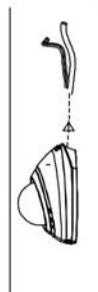


Figure 3.2.5

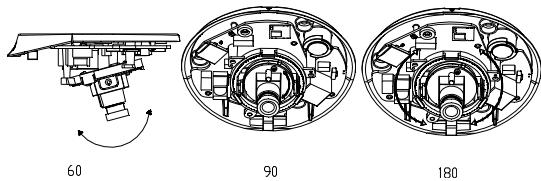


Figure 3.2.6

## Camera Positioning

### Step 1

Place the camera on a non-slip surface.



### Step 2

Remove the cover.

### Step 3

Adjust the Viewing Angle of the 3-axis Mechanism by turning the lens module left and right until the desired position is achieved.

### Step 4

Turn the lens up and down until the desired position is achieved.

### Step 5

Turn the lens to adjust the IP camera's image until the desired orientation is achieved.

### Step 6

Seat the cover.

### Step 7

Insert the weatherproof rubber screw coverings over the screws ensuring a tight seal.

### 3.3 Updating System Software

If the system software of the IP Camera needs to be upgraded, please take the following steps to safely process it.

**Important: Before carrying out the following procedures, please ensure the SD card is working and the file of the system firmware is intact**

1. Create a directory named **UPGRADE** (upper-case or lower-case letters are no difference) in the SD card if it does not exist.
2. Copy the file of UPDATE.BIN to the **UPGRADE** -directory.
3. If the IP Camera is running, please power it off first.
4. Insert the SD CARD into the IP Camera.
5. Remove the Ethernet cable from the RJ-45 port and then power on the IP Camera.
6. In 5 to 10 seconds, a message reading "UPDATE PROCESSING" will show up on the screen on a blue background; if not, please check out steps 1 to 6 carefully or else inform your technical support while ignoring the following steps.
7. DO NOT power off the IP Camera while this update process is running until the message "UPDATE OK RESET PLEASE" appears on the screen; it might take 15 to 30 seconds to appear.
8. If the message "UPDATE NG RESET PLEASE" appears rather than "UPDATE OK RESET PLEASE", please write down the error messages shown on the screen and inform your technical support, while ignoring the following steps.
9. Power off the IP Camera when this update process is finished, then remove the SD card from the IP Camera.
10. Reconnect the Ethernet cable to the RJ-45 port if necessary.
11. Power ON the IP Camera and it will work normally if the entire update procedure goes correctly.
12. Verify the version of the system software.

#### **WARNING:**

- You must perform Steps 1 to 2 on a PC.
- Ensure you are using the correct UPDATE.BIN file in Step 2, otherwise the IP Camera will not work properly.
- If the power of the IP Camera is suddenly lost in step 7, please remove the SD card first and turn on the IP Camera next to test its operation. If the IP Camera remains working normally, please go back to step 3; otherwise, please inform your technical support.
- In step 9, if the SD card is not removed and the IP Camera does not get online as well, the updating process must be repeated again after rebooting the IP Camera.
- Make sure that the SD card is inserted in a correct position in step 4, or the IP Camera will suffer permanent physical damage.
- If the message "CSUM ERROR" appears in step 7, it implies a problem in the file of UPDATE.BIN.
- Do not interrupt the process when the unit is updating, or it will crash.

## 4. Network Configuration

### 4.1 Cable Connections

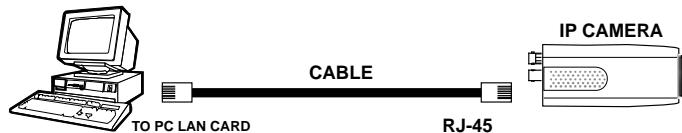
Please follow the instructions below to connect your IP camera to a computer or a network and to choose a proper RJ-45 cable configuration for connections.

#### Physical specifications of the RJ-45 cable for Ethernet

Wire Type	Cat. 5
Connector Type	RJ-45
Max. Cable Length	100 m
Hub Wiring Configuration	Straight Through
PC Wiring Configuration	Straight Through

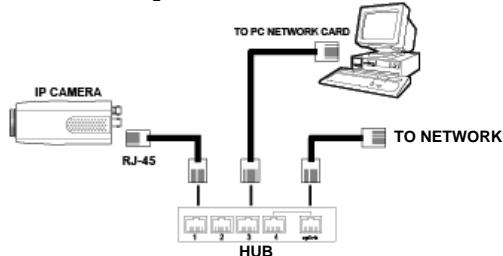
#### 4.1.1 Connect to a computer

Use a straight LAN cable to connect directly to a computer.



#### 4.1.2 Connect to a LAN Hub (INTRANET)

The RJ-45 PIN configuration for connecting with a LAN Hub is shown below.



## 4.2 Configure Your IP Camera Network Settings

Upon connecting with the network hardware, you need to activate the network function and configure the proper network settings of the IP camera.

### 4.2.1 Set IP Address

You need to set an IP address for the unit if the LAN unit isn't connected to a DHCP server. Otherwise, please follow the instructions given below:

**Note:** The default static IP is **192.168.1.168**.

Set the **IP**, **MASK** and **GATEWAY**. The following is a sample setting.

IP:	192.168.1.X
MASK:	255.255.255.0
GATEWAY:	0.0.0.0

**NOTE:** When only one IP camera is connected to a computer or LAN, you can freely assign an IP address for the IP camera. For example only, there is a range of IP camera's IP address from 192.168.1.1 to 192.168.1.254. When using IP ranges on a dedicated security link, you can use almost any IP if configured correctly, however, if using your corporate Network, please consult your IT Department before assigning any IPs.

When an IP camera is connected to a WAN, you must acquire a unique, permanent IP address and correctly configure the MASK and GATEWAY settings according to your network architecture. If you have any questions regarding those settings, please consult a qualified MIS professional or your ISP.

**NOTE:** When connecting to a network, each connected IP camera must be assigned a unique IP, which must be in the same class type as your network address. IP addresses are written as four sets of numbers separated by periods; for example, 192.168.1.1 Therefore, if the connected network is identified as Class C, for example, the first three sets of numbers of the IP camera IP address must be the same as the network address. If the connected network is identified as Class B, the first two sets of numbers of the IP camera IP address must be the same as the network address. If you have any questions regarding these settings, please consult a qualified MIS professional or your ISP.

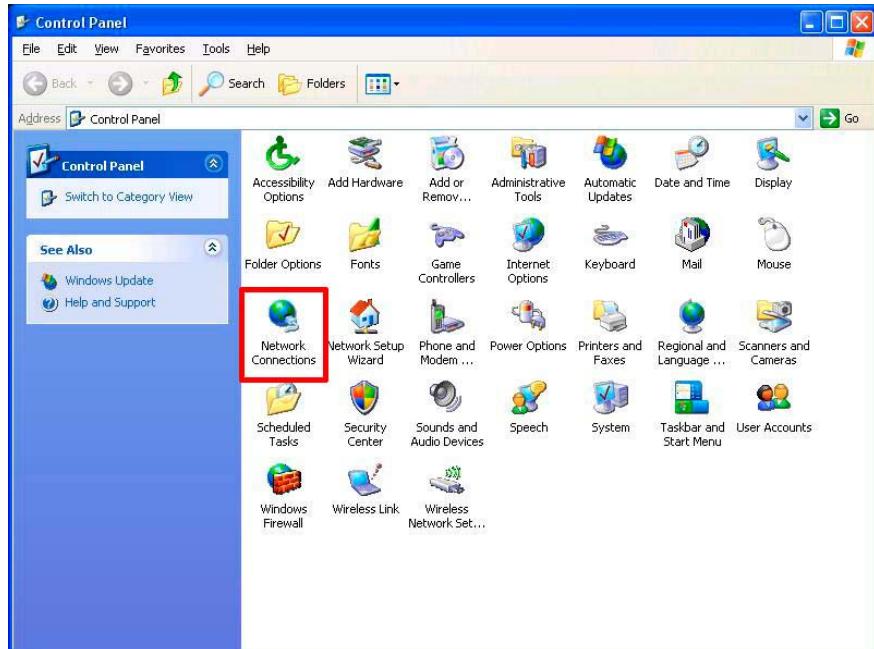
#### 4.3 TCP/IP Communication Software

Follow the procedure below to install the TCP/IP communication program in your computer.

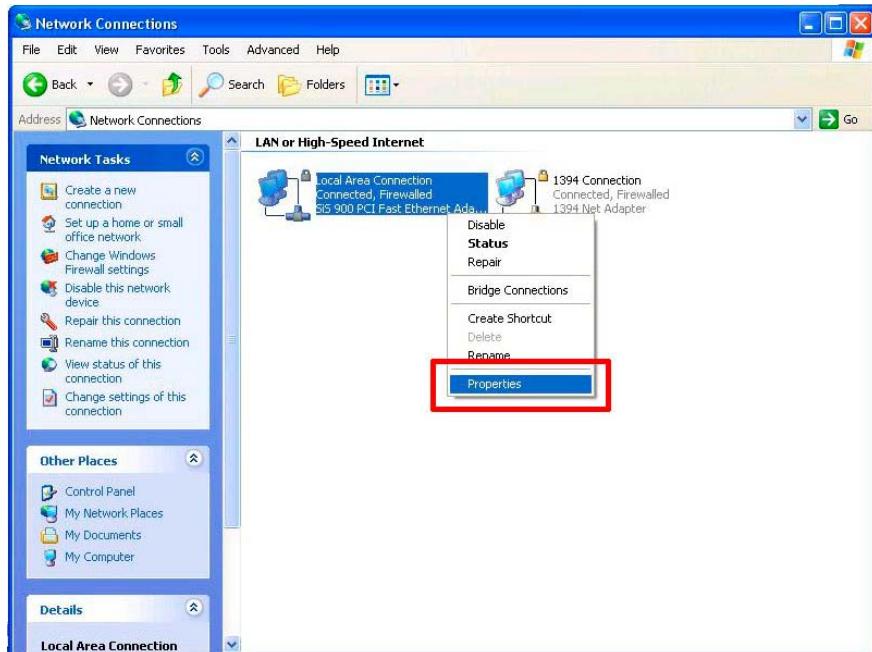
1. Click **Start**, and then click **Control Panel**.



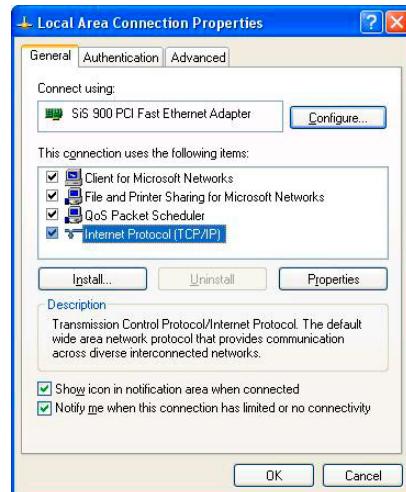
2. Double click the **Network Connections** icon to enter the windows.



1. Right-click your network connection and then click **Properties**.

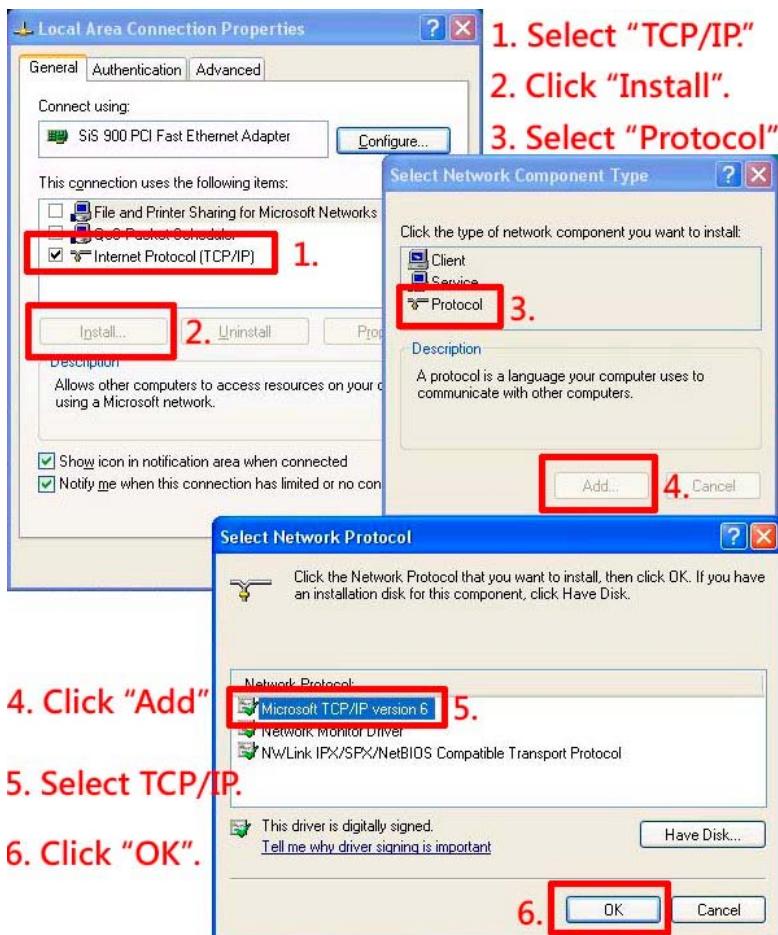


2. On the **General** tab, check if the Internet Protocol (TCP/IP) is included in the list. If the TCP/IP is included, please process section 4.5. If it is not included, please follow section 4.4 to install the TCP/IP.



#### 4.4 TCP/IP Installation

On the **General** tab of the Connection Properties, under "This connection uses the following items", click **Internet Protocol (TCP/IP)**. Then click **Install**. Select **Protocol** from the network component type then click **Add**. Select **Microsoft TCP/IP** from the network protocol then click **OK**. Click **Close** to return to the **Network Connections** window.

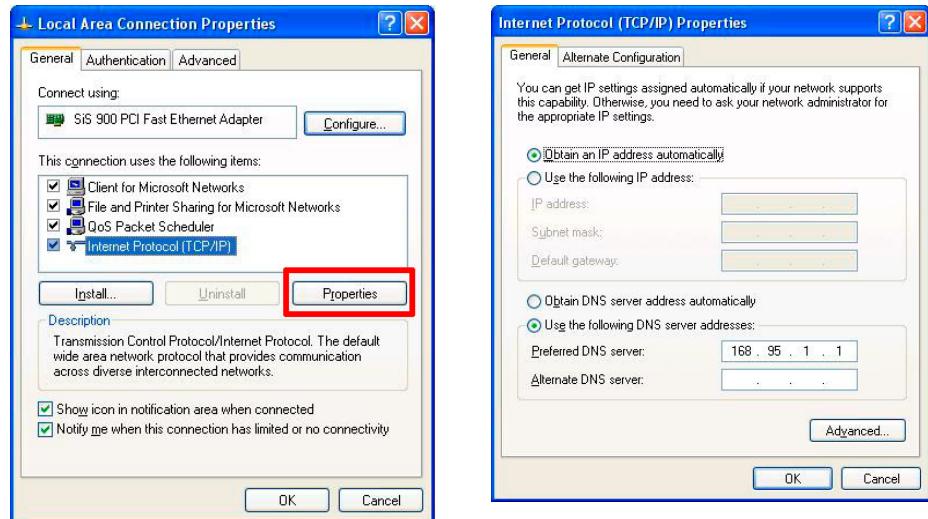


#### 4.5 TCP/IP configuration setting

Click Start > Control Panel > Network Connections.

Select Internet Protocol (TCP/IP), and then click Properties.

Before processing the IP camera installation in a WAN, please make sure the Internet connection works properly. If not, please contact your ISP provider.



If you are using a DHCP server, please select Obtain an IP address automatically. Any assigned IP address for the connected IP cameras must be in the same class type as the server. If there is no DHCP server, please select specify an IP address enter the IP address, subnet mask and default gateway of your choosing of your PC. This IP address must be different from other network IP devices but in the same class type.

**NOTE: The IP address of an IP camera in a network must be unique to itself as opposed to those of the other chosen PCs, but in the same class type.**

## 4.6 Connection Testing

With the previous settings, follow the instructions below to ensure whether you have established the connection successfully.

1. Click Start > All Programs > Command Prompt.

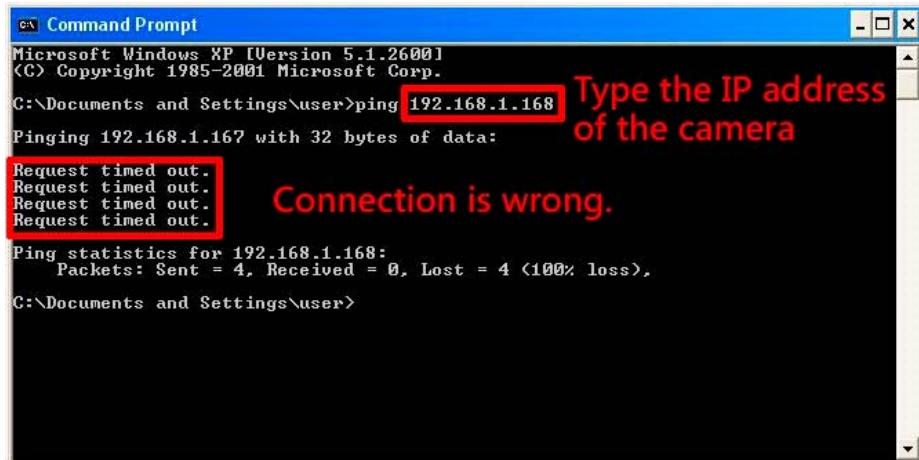


2. Enter ping XXX.XXX.XXX.XXX (the camera's IP address), then enter. (See the sample screen below).

*\*\* This is the IP address for an IP camera that is assigned for the connected IP camera.*

A screenshot of a Microsoft Windows XP Command Prompt window. The title bar says 'Command Prompt'. The window shows the command 'ping 192.168.1.168' being typed into the text area. The text area is mostly empty, indicating the command has not yet been executed.

If you receive a response as in the sample screen below, the connection hasn't been successfully established. Please re-check all the hardware and software installations by repeating sections 4.4 and 4.5. If you still can't establish the connection after rechecking, please contact your dealer.



Microsoft Windows XP [Version 5.1.2600]  
(C) Copyright 1985-2001 Microsoft Corp.

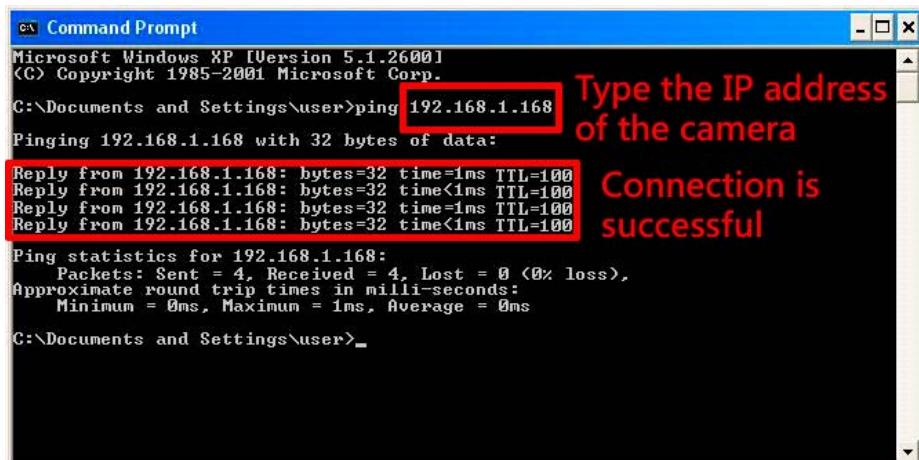
```
C:\Documents and Settings\user>ping 192.168.1.168
Pinging 192.168.1.168 with 32 bytes of data:
Request timed out.
Request timed out.
Request timed out.
Request timed out.

Ping statistics for 192.168.1.168:
  Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),
C:\Documents and Settings\user>
```

Type the IP address of the camera

Connection is wrong.

If you receive a response as in the sample screen below, you have successfully made the connection.



Microsoft Windows XP [Version 5.1.2600]  
(C) Copyright 1985-2001 Microsoft Corp.

```
C:\Documents and Settings\user>ping 192.168.1.168
Pinging 192.168.1.168 with 32 bytes of data:
Reply from 192.168.1.168: bytes=32 time=1ms TTL=100
Reply from 192.168.1.168: bytes=32 time<1ms TTL=100
Reply from 192.168.1.168: bytes=32 time=1ms TTL=100
Reply from 192.168.1.168: bytes=32 time<1ms TTL=100

Ping statistics for 192.168.1.168:
  Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
  Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 1ms, Average = 0ms
C:\Documents and Settings\user>
```

Type the IP address of the camera

Connection is successful

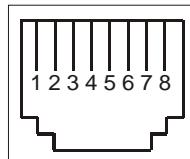
## 5. Configuration Using A Web Browser

The configuration pages accessed with a web browser provides the functions of configuring, monitoring remote zones or watching recorded data through the TCP/IP protocol. The details are listed as follows.

RJ-45 PIN configuration for Ethernet

PIN NO.	PIN Assignment
1.	TX +
2.	TX -
3.	RX +
4.	Not Connected
5.	Not Connected
6.	RX -
7.	Not Connected
8.	Not Connected

RJ-45 socket



Physical specification for Ethernet

Wire type	Cat. 5
Connector type	RJ-45
Max. cable length	100 m
Hub wiring configuration	Straight Through or Cross Over
PC wiring configuration	Straight Through or Cross Over

## 5.1 Microsoft Internet Explorer

### 5.1.1 Connecting the IP camera

1. Start Microsoft Internet Explorer.
2. Click on the URL block at the top of the window.
3. Enter the URL address of the IP camera into the URL block and press the "Enter" button to enter the home page.
4. Enter the "User Name" and "Password" in the appropriate spaces.
5. Select "OK".

**NOTE:** The default "User Name" and "Password" are admin and 9999, respectively.

**NOTE:** The page headlined "Enter Network Password" is shown below. Please enter the user name and password of the IP camera when you see it. If either the user name or the password is incorrect, please check the input data and rectify it as necessary.

**NOTE:** Once authorized successfully, the login page will not appear again until you close the window and reconnect it.

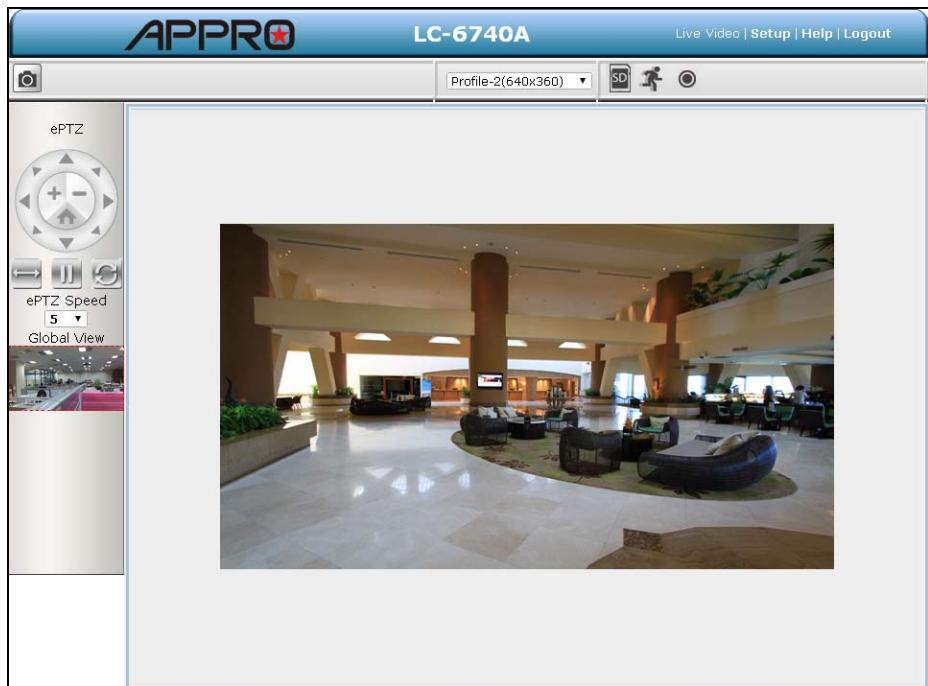
**NOTE:** The initial sequence of proceeding is to type in your IP address and click the "Enter" button to access the home page. If and when you revise or change data in the "SYSTEM USERS" page, the sequence will alter to initially show the "Enter Network Password" page.



### 5.1.2 Live Video

The Live Video from the IP camera is displayed on the home page when your PC is online with the IP camera. There are also additional settings provided on the home page. The AJAX (default) and the ActiveX viewer types display different display formats on their home page.

**The AJAX viewer type: Non-IE browsers support (for the JPEG mode only).**



- Click **Profile-1(640x480)** to change the pairs of resolution and quality which you already arranged in the "Audio and Video" setting page (for the JPEG mode).
- **SD** SD card icon: Check if the SD card is inserted or not. When a SD card is inserted, the icon becomes red **SD**.
- **🏃** Motion-on icon: When there is a detection of motion, the icon will appear in the right upper corner to warn the user. When the motion detection is triggered, the icon will blink red **🏃**.
- **⌚** Status Recording on icon: The icon will appear on the upper right corner. When the recording is triggered, the icon will become red **⌚** and record the images into the inserted SD card.

-  Alarm on-icon: When there is a detection of external devices such as a sensor, The icon will appear on the upper right corner warn the user. When an alarm is triggered, the icon will blink red .

The ePTZ control panel:

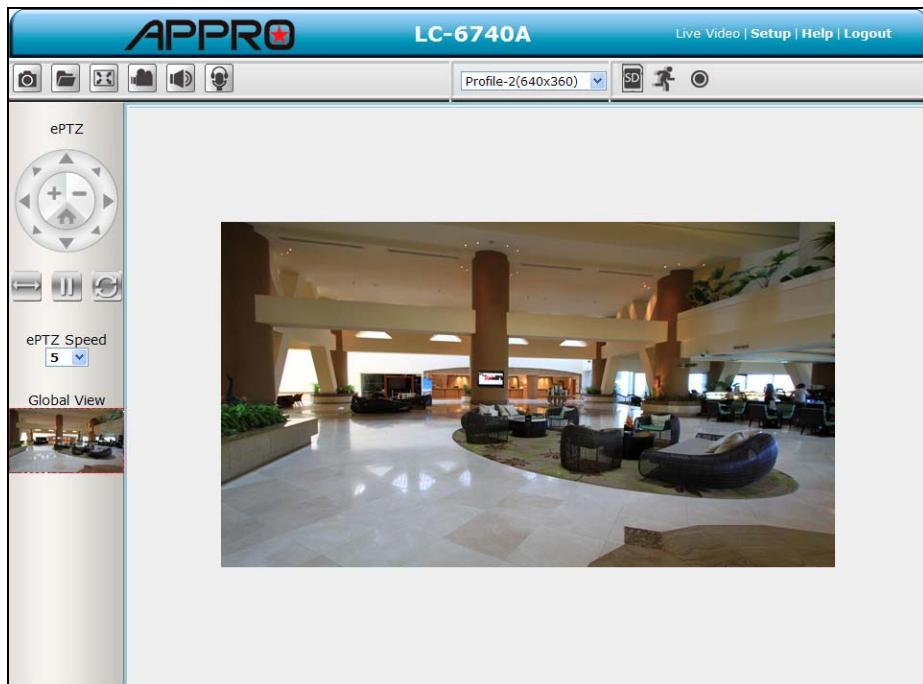


- Click  to start the electronically pan, tilt, and zoom (ePTZ) within the camera's predefined view area, if one has been defined.
-  SD card icon: Starts the automatic panning function. The ROI will pan from back and forth within the FoV.
-  Motion-on icon: Stops automatic panning.
-  Preset Path: Starts the camera's motion along the predefined path.
- ePTZ Speed: You may select a value between 0 and 64. 0 is the slowest and 64 is the fastest.

### 5.1.3 Setup

#### The ActiveX viewer type:

You can select from the available thumbnails for your option of taking a Snapshot, setting the Storage Folder, selecting the Full Screen mode, Recording, Listen, Talk and Zoom.



- Snapshot: Click on the  button to take a snapshot. The icon will change to a blue color  while working effectively.
- Set Storage Path: Click on the  button to set a storage folder for saving the snapshot and the video clips.
- Full Screen: Click on the  button to enter the full screen mode. The icon will change to a blue color  while working effectively.
- Record switch: Click on the  button to record a video clip. The icon will change to a blue color  while working effectively.
- Audio switch: Click on the  button to start/stop the audio-in function (listen/stop listening). The icon will change to a blue color  while working effectively.

- Talk switch: Click on the  button to start/stop audio out function (talk/stop talking). The icon will change to a blue color  while working effectively.
- Digital output: Click on the  button to start/stop digital output. The icon will change to a blue color  while working effectively.
- EPTZ: The Digital Zoom mode. The mode utilizes the high resolution feature of the mega pixel camera to simulate the mechanical functions of the PTZ camera. The mode helps the user to filter the image details more efficiently. When the digital zoom mode is active, the image can be zoomed in and out directly.

Hold the left key of the mouse and move the mouse in the preferred direction in the Global View area. As the mouse moves, the live view area shows the corresponding image until the border of the image appears.

- Live Video: Click to go back to the device's homepage.
- Setup: Click to proceed to the advanced settings.
- Logout: Click to close the window.

Click on the **Setup** button on the home page to proceed to the advanced settings.

### 5.1.3.1 Wizard

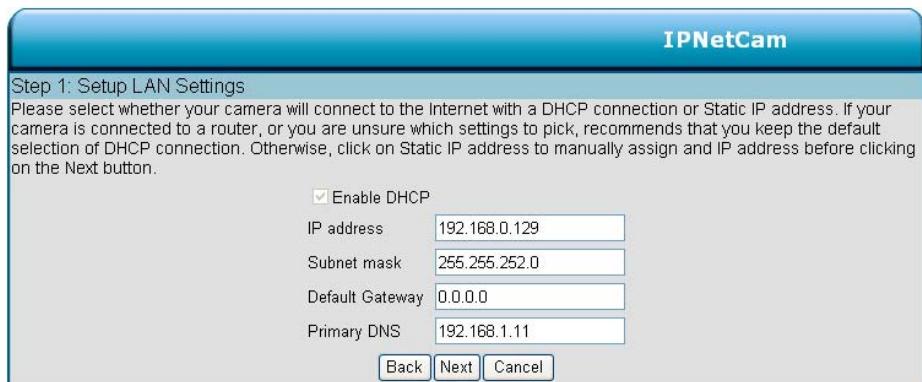
To quickly configure your IP Camera, click **Wizard** on the top of the Setup pages.

This wizard will guide you through a step-by-step process to configure your new camera and connect the camera to the Internet.



Click **Next** to continue.

#### Step 1:



The IP Camera default setting is **DHCP On**. Use the DHCP protocol if the DHCP server is working in the LAN. The IP Camera will obtain an IP address automatically from the DHCP server. Or you can turn the DHCP **Off** to build the IP Camera working environment with a static IP address. The default static IP is **192.168.1.168**. You can set an IP address for the IP Camera if the LAN unit isn't connected to a DHCP server.

If your Internet Service Provider has provided you with connection settings, or you wish to set a static address within your home network, enter the accurate information for your static IP setting.

Click **Next** to continue.

**Step 2:**

**IPNetCam**

Step 2: Setup Internet Settings  
Please enter your ISP Username and Password in the case that your ISP is using PPPoE and then click on the Next button. Please contact your ISP if you do not know your Username and Password.

Enable PPPoE

User Name   
(e.g. 654321@hinet.net)

Password

If you are using PPPoE, select **Enable** and enter your user name and password, otherwise select **Disable** and click **Next** to continue.

**Step 3:**

**IPNetCam**

Step 3: Setup DDNS Settings  
If you have a Dynamic DNS account and would like the camera to update your IP address automatically, enable DDNS and enter in your host information below. Please click on the Next button to continue.

Enable DDNS

Server Address  << Select Dynamic DNS Server

Host Name

User Name

Password

Verify Password

Timeout  (hours)

If you have a Dynamic DNS account and would like the camera to update your IP address automatically, Select **Enable** and enter your host information.  
Click **Next** to continue.

#### Step 4:

**IPNetCam**

Step 4: Camera Name Settings  
Recommends that you rename your camera for easy accessibility. You can then identify and connect to your camera via this name. Please assign a name of your choice before clicking on the Next button.

IP Camera Name

Enter a name for your camera and click **Next** to continue.

#### Step5:

**IPNetCam**

Step 5: Setup Time Zone  
Please configure the correct time to ensure that all events are triggered, captured and scheduled at the correct time and day and then click on the Next button.

Time Zone

Enable Daylight Saving

Configure the correct time to ensure that all events will be triggered, captured and scheduled at the right time. Click **Next** to continue.

#### Step 6:

**IPNetCam**

Step 6: Setup complete  
Below is a summary of your camera settings. Click on the Back button to review or modify settings or click on the Apply button if all settings are correct. It is recommended to note down these settings in order to access your camera on the network or via your web browser.

IP Address	DHCP
IP Camera Name	IP Camera
Time Zone	(GMT+08:00) Taipei
DDNS	Disable
PPPoE	Disable

If you have selected **DHCP**, you will see a summary of your camera's settings. Please note down all this information as you will need it for accessing your camera within the network.

Click **Apply** to save your settings.

### 5.1.3.2 Change Image Setting

Please follow the steps below to change the video setting through the network as necessary. A preview of the image will be shown in the window of Live Video. Click **Submit** to activate and save your changes.

- [The Image Setup setting page](#)

1. Click on the **Image** button to enter the image-setting page.

The screenshot shows the APPRO LC-6740A Image Setup page. The left sidebar has links for Image, Audio and Video, Privacy Mask, and Logout. The main area has tabs for IMAGE SETUP, IMAGE SETTINGS, and DEVICE SETTING. The IMAGE SETUP tab is active, showing a live video feed of a lobby. The IMAGE SETTINGS tab shows controls for Exposure Mode (Auto), Max Gain (24 dB), Denoise (0), Mirror (Off), Flip (Off), White Balance (Auto), and sliders for Brightness, Contrast, Saturation, and Sharpness (all at 50). The DEVICE SETTING tab shows Device Name (LC-6740A), Enable OSD (unchecked), and options for Timestamp Label (LC-6740A), Date/Time Location (UPPER LEFT), and Label Location (UPPER LEFT). A 'Reset Default' button is also present.

2. Adjust the "Viewer Type". Click to choose the viewer type of the "AJAX" or "ActiveX" mode.
3. Adjust the "Image Settings", including "Metering Method", "Exposure Time", "Denoise", "Mirror", "Flip", "White Balance", "Brightness", "Contrast", "Saturation", "WDR Level"

"Sharpness" and as necessary.

4. Adjust the "Device Settings" including "Device Name" and "Timestamp".

- Click "**Enable OSD**" to checkmark the box and activate the function.
- Enter the "Timestamp Label" you have chosen.
- Enter the "Timestamp Location" you have chosen.

5. Click on the **Submit** button to submit the new image setting.

#### Description of function keys:

<b>Metering Method</b>	The metering method determines the exposure. Different metering methods measure the subject brightness differently. <b>Center-weighted:</b> The metering is weighted at the center and then averaged for the entire scene. <b>Spot:</b> This is for metering the central part of the entire scene.
<b>Exposure Mode</b>	Exposure Mode controls a camera by shutter speed and the lens aperture. <b>Auto:</b> Automatic exposure mode. The default shutter time is 1/30~1/10000 (1/25~1/10000) and the maximum gain is 36 dB. <b>Indoor:</b> The optimum exposure setting is pre-programmed for the indoor environment. The default shutter time is 1/30~1/120 (1/25~1/100) and the maximum gain is 36 dB. <b>Outdoor:</b> The optimum exposure setting is pre-programmed for the outdoor environment. The default shutter time is 1/30~1/750 (1/25~1/750) and the maximum gain is 36 dB. <b>Night:</b> The optimum exposure setting is pre-programmed for the night environment. The default shutter time is 1/30~1/750 (1/25~1/500) and the maximum gain is 12 dB. <b>Moving:</b> The optimum exposure setting is pre-programmed for moving subjects. The default shutter time is 1/120~1/1,000 (1/100~1/1,000) and the maximum gain is 36 dB. <b>Low noise:</b> The optimum exposure setting is pre-programmed to reduce the noise. The default shutter time is 1/8~1/30 (1/7.5~1/25) and the maximum gain is 36 dB. <b>Customize 1-3:</b> You can customize an exposure mode by adjusting individual parameters like Gain and Shutter. <b>Schedule:</b> In the Schedule mode, you can set the customize schedule. Select a schedule and set the time period. You can assign one of the exposure modes to be the function mode of the Remaining time. Check and press to Save. <b>Note:</b> The period of the schedule can't be set across midnight. For example, if you want to set a schedule of Night mode from 22:00 to 04:00, you have to (1) check a schedule and select the Night mode and set the period from 22:00 to 24:00, then (2) enable the next schedule and set it to Night mode and set the period from 00:00 to 04:00. Remember to click Save to activate.
<b>Denoise</b>	Denoise (noise reduction) is the process of removing noise from signals.

<b>Mirror:</b>	The mirror stores the images reflected by it so it can be used for surveillance or to simply take your own picture.
<b>Flip:</b>	To flip the camera's lens 180 degrees.
<b>White Balance</b>	White balance is the process of removing unnatural shades of color, so that objects which appear white in reality are rendered white in the images. Select your options from "Auto", "Outdoor", "Indoor", "Fluorescent" and "Push Hold".
<b>Brightness:</b>	An adjustable setting to compensate for backlit scenes.
<b>Contrast:</b>	The measurement for color intensity/strength.
<b>Saturation:</b>	This setting controls the strength of colors from black and white to bold colors.
<b>Sharpness</b>	An adjustable setting to set the clarity of detail in the images.
<b>WDR Level</b>	The <b>Wide Dynamic Range</b> (WDR) function of a camera is intended to provide clear images even under back light circumstances. WDR enables the capture and display of both bright areas and dark areas in the same frame, in a way that there are details in both areas, i.e. bright areas are not saturated, and dark areas are not too dark. Select your options of the level between 1 and 10. 1 is the lowest level and 10 is the highest one. Or select None to inactivate this function.
<b>Timestamp Label:</b>	Enter the timestamp label.
<b>Timestamp Location:</b>	Click to open the list of four location modes to choose from: "UPPER LEFT", "UPPER RIGHT", "BOTTOM LEFT", and "BOTTOM RIGHT".
<b>Submit:</b>	Click to set.

**NOTE: The default setting table of the exposure mode--**

<b>NTSC</b>		
<b>Exposure Mode</b>	<b>Shutter</b>	<b>Max Gain</b>
Auto	1/30~1/10000	36 dB
Indoor	1/30~1/120	36 dB
Outdoor	1/30~1/750	36 dB
Night	1/30~1/500	12 dB
Moving	1/120~1/1,000	36 dB
Low noise	1/8~1/30	36 dB
<b>PAL</b>		
<b>Exposure Mode</b>	<b>Shutter</b>	<b>Max Gain</b>
Auto	1/30~1/10000	36 dB
Indoor	1/25~1/100	36 dB
Outdoor	1/25~1/750	36 dB
Night	1/25~1/500	12 dB
Moving	1/100~1/1,000	36 dB
Low noise	1/7.5~1/25	36 dB

- [The Audio and Video setting page](#)

1. Click on the **Audio and Video** button to enter the Audio and video page to set the details of the device. You may configure video profiles with different settings for your camera. Hence, you may setup different profiles for your computer and mobile displays. In addition, you may also configure your audio setup for your camera. Click **Submit** to activate and save your changes.

**AUDIO AND VIDEO**

**VIDEO SETTINGS**

Aspect ratio: 16.9 ▾

**Warning:** Change the aspect ratio will clear the settings of privacy mask and preset and motion detection.

**VIDEO PROFILE 1**

Mode:	H.264 ▾
Frame size:	1280x720 ▾
Viewer window area:	1280x720 ▾
Intra Frame Period:	30 ▾
Maximum frame rate:	30 ▾
Video quality:	<input type="radio"/> Constant bit rate 1M ▾ <input checked="" type="radio"/> Fixed quality High ▾

**VIDEO PROFILE 2**

Mode:	H.264 ▾
Frame size:	640x360 ▾
Viewer window area:	640x360 ▾
Intra Frame Period:	30 ▾
Maximum frame rate:	30 ▾
Video quality:	<input type="radio"/> Constant bit rate 1M ▾ <input checked="" type="radio"/> Fixed quality High ▾

**AUDIO SETTINGS**

Encoding:	G.711 ▾
<input checked="" type="checkbox"/> Audio Mechanism	
Setting:	<input checked="" type="radio"/> Audio Mic Gain 20dB ▾ <input type="checkbox"/> Enable audio out
Audio out volume level:	7 ▾

2. Select the Profile Number from 1-2. Then set the Aspect ratio of 4:3 or 16:9. Click Save to activate it.

3. Set the “Mode”, “Frame size”, “Viewer window area”, “Maximum frame rate” and “Video quality” of the Video Profile as necessary.
4. Set the details of the audio functions.
5. Select 50 Hz or 60Hz of the Power Line.
6. Click on the **Submit** button to submit the new setting.

**Description of function keys:**

Profile Number	Select the Profile Number from 1-2 and the default video profile number is 1.
Aspect ratio	The aspect ratio of an image is the ratio of the width of the image to its height. Select 4:3 or 16:9 of the ratio that best suits your needs.
<b>Mode:</b>	Choose the video format from “H.264” or “JPEG”. In JPEG mode, the video frames are independent.
<b>Frame size:</b>	This option allows the user to choose the video resolution of the live view area: 4:3 - 1440x1080, 1280x960, 1024x768, 800x600, 640x480, 480x360, 320x240, 176x144. 16:9 - 1920x1080, 1280x720, 800x450, 640x360, 480x270, 320x176, 176x144.
<b>Viewer window area:</b>	This option allows the user to choose the video resolution of the live view area: 4:3 - 1440x1080, 1280x960, 1024x768, 800x600, 640x480, 480x360, 320x240, 176x144. 16:9 - 1920x1080, 1280x720, 800x450, 640x360, 480x270, 320x176, 176x144.
<b>Intra Frame Period:</b>	In the H.264 mode, if there is little motion and most of the video content does not change from frame to frame, the H.264 encoding can compress the video by intra-frame way to keep the quality from loss. You can set the desired time period to use intra-frame compression.
<b>Maximum frame rate:</b>	Click on the drop-down list to choose the frame rates of “30FPS”, “15FPS”, “7FPS”, “4FPS” and “1FPS” in all resolution.
<b>Video quality:</b>	Selects the image quality level of JPEG images captured from “Highest”, “High”, “Medium”, “Low” and “Lowest”. Selects the image quality level of H.264 images captured from “Constant bit” (4M, 2M, 1M, 512K, 256K, 200K, 128K and 64K) or “Fixed Quality” (Highest, High, Medium, Low and Lowest).
<b>Audio Settings:</b>	You can use the option to switch the external microphone on/off or adjust the volume.
<b>Encoding:</b>	Click on the drop-down list to choose the audio encoding of “G.711”.
<b>Audio Mechanism Setting:</b>	Check to activate this function. Then select MIC or Line In. <b>NOTE: The option of 26dB is for long-distance audio receiving, especially longer than 3 meters.</b>

<b>Enable audio out:</b>	Check to activate this function. Then set the Audio out volume level.
<b>Power Line</b>	Select 50 Hz or 60Hz that depends on your local electric utility configuration.

**NOTE:**

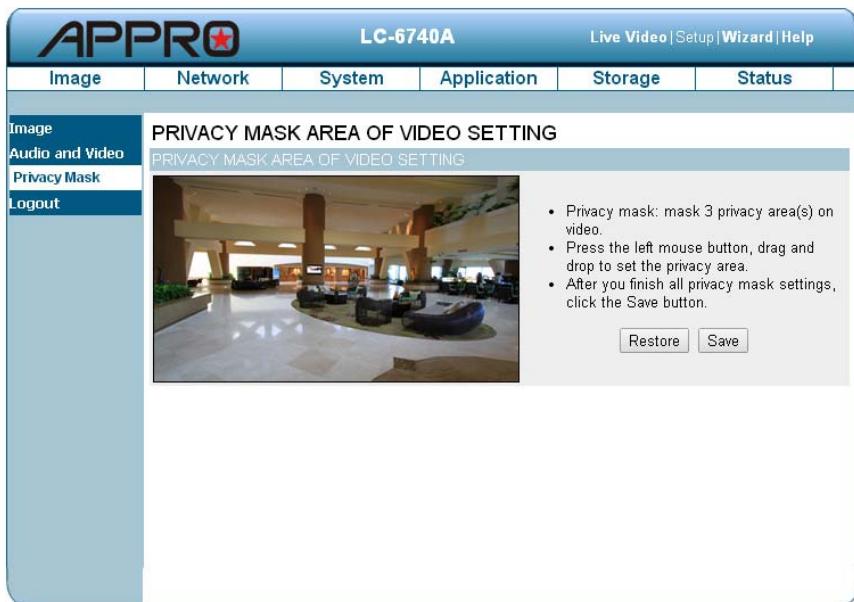
**Audio In/Out:**

In order to use the Audio In/ Out signal function, please follow the steps given below.

1. Connect to the camera webpage over the PC IE Browser.
2. Ensure “Audio Mechanism Setting” & “Enable audio out” are both selected. Click Submit.
3. Connect the Mic to the PC, and connect the camera Audio out to the speaker.
4. Select “Talk”  → ; speak to the PC-connected microphone.
5. Confirm the sounds made in the camera-connected speaker.
6. Connect the Mic to the camera--Audio in; connect the speaker to the PC--AUDIO Out.
7. Click “Listen” in the webpage  → ; the Mic sends audio signals to the camera.
8. Confirm the sounds from the PC speaker.

- [The Privacy Mask setting page](#)

Click on the **Privacy Mask** button to enter the Privacy Mask Area setting page. Mask 3 privacy area(s) on video to specify up to the area(s) on the camera's image to be blocked/excluded from recordings and snapshots.



1. Click the right mouse button on the video control to show the pop-menu.
2. Press the left mouse button, drag and drop to set the privacy area.
3. Privacy area can be enabled or disabled.
4. After you finish all privacy mask settings, click the Submit button.

### 5.1.3.3 Change the Network Setting

Please follow the steps below to change the network setting through the network as necessary.

- Set the network options and IP address.

1. Click on the **Network** button in the home page to enter the Network Setup page.



2. The accessible networks here are the “PPPoE”, “Port Detail”, “Traffic”, “Dynamic DNS”, “HTTPS” and “Access List”.
3. Set the details of the “LAN Settings” for your local area network as necessary.
4. Click on the **Submit** button to submit the new network setting.

#### Description of function keys:

<b>DHCP:</b>	If you have a DHCP server running on your network and would like a dynamic IP address to be updated to your camera automatically.
<b>DNS</b>	(The Domain Name System) is an Internet service that translates domain names into IP addresses (e.g., 192.168.0.20). The address can be obtained from your ISP or network gateway.
<b>Enable UPnP Presentation:</b>	Enable this setting to allow your camera to be configured as an UPnP device in your network.
<b>Enable UPnP port forwarding:</b>	Enable this setting to allow the camera to add port forwarding entries into the router automatically on a UPnP capable network.

- Change the Network Setting — Wireless Setup (for the Wi-Fi model only).

The “Network” page has, on its upper left, the “Wireless setup” icon. Please follow the steps below to change the Wireless setting through the network as necessary.

1. Click on the **Wireless setup** button on the upper left menu to enter the “Wireless setup” page.

The screenshot shows the APPRO LC-6740B network configuration interface. The top navigation bar includes the APPRO logo, model name LC-6740B, and links for Live Video, Setup, Wizard, and Help. The main menu on the left is collapsed, showing options like Network, Wireless Setup, PPPoE, Port Detail, Traffic, Dynamic DNS, HTTPS, Access List, and Logout. The central content area is titled "WIRELESS SETUP" and "WIRELESS CONFIGURATION". It contains the following fields:

Enable Wireless	<input type="checkbox"/>
Site Survey	==SSID List== <input type="button" value="Rescan"/>
SSID	default
Wireless Mode	Infrastructure
Channel	Auto
Authentication	Open
Encryption	Disable
Default Key	1
Key 1	*****
Key 2	*****
Key 3	*****
Key 4	*****

(5 or 13 ASCII, 10 or 26 HEX characters)

2. Active the “Enable” status of the Wireless Settings function. Click your choices to enable.
3. Click on the **Submit** button to submit the new setting.

- Change the Network Setting — PPPoE.

The “Network” page has, on its upper left, the “PPPoE” icon. Please follow the steps below to change the PPPoE setting through the network as necessary.

4. Click on the **PPPoE** button on the upper left menu to enter the “PPPoE Settings” page.

The screenshot shows the APPRO LC-6740A network configuration interface. The top navigation bar includes 'Image', 'Network', 'System', 'Application', 'Storage', and 'Status'. The 'Network' tab is selected, and within it, the 'PPPoE' sub-tab is selected. The main content area is titled 'PPPoE' and contains a sub-section 'PPPoE SETTINGS'. It includes radio buttons for 'Enable' and 'Disable', and text input fields for 'User Name', 'Password', and 'Confirm password'. The 'Status' field is set to 'Inactive'. A 'Submit' button is located at the bottom right of the form.

5. Active the “Enable” or “Disable” status of the PPPoE Settings function. Click your choices to enable.
6. Enter the PPPoE “Username” and the PPPoE “Password”, then confirm the password again.
7. Click on the **Submit** button to submit the new setting.

**NOTE: Please refer to section 5.1.3.8 (PPPoE & DDNS) for more details.**

**Description of function keys:**

<b>PPPoE Setting</b>	If you use the camera to connect directly to the Internet, you will need to enter the username and password, which were given to you when you set up your account with your Internet Service Provider. If the camera is behind a router or a gateway, you do not need to configure this setting.
<b>Username:</b>	Enter it in the given space.
<b>Password:</b>	Enter it in the required space.

- Change the Network Setting — Port Detail.

The “Network” page has, on its upper left, the “Port Detail” icon. It allows you to specify and reserve the ports for both the HTTP and RSTP streaming. Please follow the steps below to change the Port Detail setting through the network as necessary.

1. Click on the **Port Detail** button on the upper left menu to enter the “Port Detail” page.

The screenshot shows the APPRO LC-6740A Network Port Detail configuration page. The left sidebar has links for Image, Network (selected), System, Application, Storage, and Status. The main area has a 'PORT DETAIL' section. Under 'HTTP', the 'HTTP port' is set to 80, and 'Access name for stream1' is video1.mjpg. Under 'HTTPS', the 'HTTPS port' is set to 443. Under 'RTSP', the 'RTSP port' is set to 554, and 'Access name for stream1' is live1.sdp. A 'Submit' button is at the bottom.

PORT DETAIL	
<b>HTTP</b>	
HTTP port	80
Access name for stream1	video1.mjpg
Access name for stream2	video2.mjpg
<b>HTTPS</b>	
HTTPS port	443
<b>RTSP</b>	
RTSP port	554
Access name for stream1	live1.sdp
Access name for stream2	live2.sdp

2. Enter the “HTTP port” and the “Access name for stream” for the MJPEG streams of the HTTP.
3. Enter the “HTTPS port”. The default value is 443.
4. Enter the “RTSP port” and the “Access name for stream” for the MJPEG or JPEG streams of the RSTP.
5. Click on the **Submit** button to submit the new setting.

**NOTE: If you want to use an RTSP player to access the IP camera, you have to use the following RTSP URL command to request transmission of the streaming data.**

**Description of function keys:**

<b>HTTP Port</b>	HTTP ports allow you to connect to the camera via a standard web browser. This port can be set to a number other than the default HTTP port 80. A corresponding port must be opened on the router. For example, if the port is changed to 8080, users must type in the web browser 'http://192.168.0.100:8080' instead of 'http://192.168.0.100'.
<b>HTTPS Port</b>	HTTPS Port in a camera connects it with a PC via a secure web browser.
<b>RTSP Port</b>	The port number that you use for RTSP streaming to mobile devices, such as mobile phones or PDAs. You may specify the address of a particular stream. For instance, live1.sdp can be accessed at rtsp://x.x.x.x/video1.sdp where the x.x.x.x represents the IP address of your camera.

**NOTE: Using a RSTP player to view the video streams**

- (1) Launch the RTSP player.
- (2) Choose “File”, and an “Open URL” dialog box will pop up.
- (3) Enter an Internet URL to open. The address format is rtsp://<ip address>:<rtsp port>/<RTSP streaming access name for stream1, stream2 or stream3>
- (4) The live video will be displayed in your player.

- Change the Network Setting —Network Traffic.

The “Network” page has, on its upper left, the “Traffic” icon. Specifying the maximum download/upload bandwidth for each socket is useful when connecting your device to a busy or heavily loaded network. Please follow the steps below to change the setting through the network as necessary.

1. Click on the **Traffic** button on the upper left menu to enter the “Traffic” page.

The screenshot shows the 'IP camera' interface with a 'Network' tab selected. On the left, a sidebar menu includes 'Network', 'PPPoE', 'Port Detail', **Traffic** (which is highlighted), 'Dynamic DNS', 'HTTPS', 'Access List', and 'Logout'. The main content area is titled 'TRAFFIC' and contains two input fields: 'Maximum Upload Bandwidth: 0 Kilo Bytes Per Second' and 'Maximum Download Bandwidth: 0 Kilo Bytes Per Second'. A 'Submit' button is located below the fields.

2. Enter the “Maximum Upload Bandwidth” and the “Maximum Download Bandwidth”.
3. Click on the **Submit** button to submit the new setting.

**Description of function keys:**

<b>Maximum Upload Bandwidth:</b>	Enter it in the given space from a range of 0 to 102400.
<b>Maximum Download Bandwidth:</b>	Enter it in the required space from a range of 0 to 102400.
<b>Submit:</b>	Click to set.

- Change the Network Setting — DDNS.

The DDNS (Dynamic Domain Name Server) will hold a DNS host name and synchronize the public IP address of the modem when it has been modified. The user name and password are required when using the DDNS service. The “Network” page has, on its upper left, the “DDNS” icon. Please follow the steps below to change the DDNS setting through the network as necessary.

1. Click on the **Dynamic DNS** button on the upper left menu to enter the “Dynamic DNS” page.

The screenshot shows the APPRO LC-6740A web interface. The left sidebar has a blue background with white text. The 'Network' link is highlighted. The main content area has a light blue header 'DYNAMIC DNS' and a sub-header 'DYNAMIC DNS SETTING'. It includes fields for 'Enable DDNS' (checkbox), 'Server Address' (www.DynDNS.org), 'Host Name', 'User Name', 'Password', 'Verify Password', 'Timeout' (600 hours), and 'Status' (Inactive). A 'Submit' button is at the bottom.

2. Click “Enable DDNS” to checkmark the box and activate the function.
3. Fill in your dynamic “Server Address”, “Host Name”, “User Name”, “Password”, “Verify Password”, “Timeout”, “IP Address” and “Email Address”.
4. Click on the **Submit** button to submit the new setting.

**NOTE: Please refer to section 5.1.3.8 (PPPoE & DDNS) for more details.**

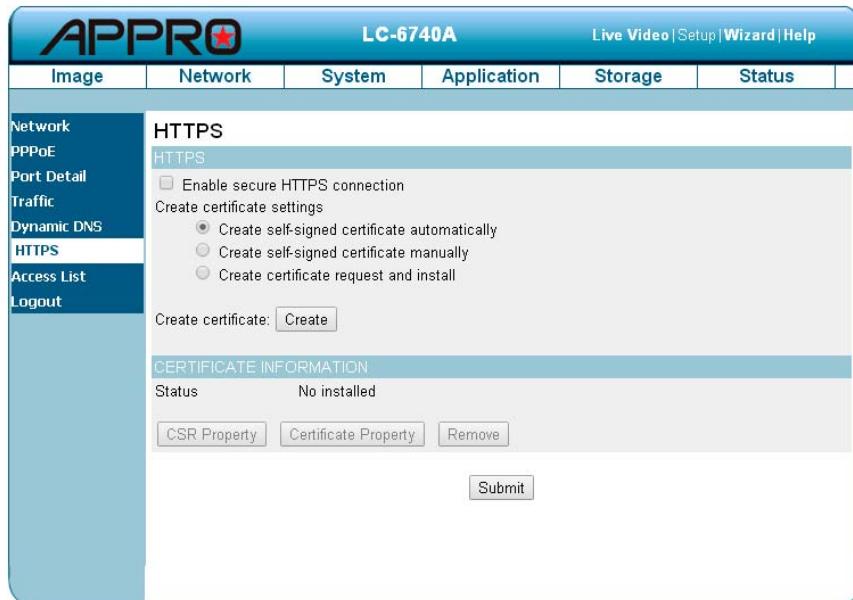
**Description of function keys:**

<b>Enable DDNS Function:</b>	Checkmark to activate the function.
<b>DNS</b>	(The Domain Name System) is an Internet service that translates domain names into IP addresses (i.e. 192.168.0.20). The address can be obtained from your ISP or network gateway.
<b>Server Address:</b>	Select your Dynamic DNS provider from the pull down menu or enter the server address manually.
<b>Host Name:</b>	Enter the host name of the DDNS server.
<b>User name:</b>	Enter your user name or e-mail used to connect to the DDNS
<b>Password:</b>	Enter your password used to connect to the DDNS server.
<b>Verify Password</b>	Enter your password again to connect to the DDNS server.
<b>Timeout:</b>	Enter the DNS Timeout values for registering the IP address.
<b>Status:</b>	Indicate the connection status, automatically determined by the system.

- Change the Network Setting — HTTPS.

The “Network” page has, on its upper left, the “HTTPS” icon. Please follow the steps below to change the HTTPS setting through the network as necessary.

1. Click on the **HTTPS** button on the upper left menu to enter the “HTTPS Setting” page.



2. Mark the “Enable HTTPS secure connection” to activate the function.
3. Click to select the “Create certificate method” from “Create self-signed certificate automatically”, “Create self-signed certificate manually” and “Create certificate request and install”.
4. Click “Create” to save the create certificate settings.
5. The Certification Information will show below.
6. Click “CSR Property” to see the Certificate Signing Request information.
7. Click “Certificate Property” to see the Certificate information.
8. Click “Remove” to remove the created certificate.
9. Click on the **Submit** button to submit the new setting.

**NOTE: The certificate cannot be removed while the HTTPS is still enabled. To remove the certificate you must first uncheck Enable HTTPS secure connection.**

## **Methods of creating and installing the certificate:**

### **1. Create self-signed certificate automatically**

Before using HTTPS for communication with the IP camera, a Create self-signed certificate automatically:

- (1) Enable HTTPS secure connection.
- (2) Select the “Create self-signed certificate automatically” option.
- (3) Click the Create button.
- (4) The new Certification Information will show in the third column on the HTTPS setting page.
- (5) Click Home to return to the main page. Change the address from “http://” to “https://” in the address bar and press Enter on your keyboard. Some Security Alert dialogs will pop up. Click OK or Yes to enable HTTPS.

### **2. Create self-signed certificate manually**

- (1) Enable HTTPS secure connection.
- (2) Click “Create self-signed certificate manually” to open the Create certificate column.
- (3) Click the Create button.
- (4) The new Certification Information will show in the third column on the HTTPS setting page.

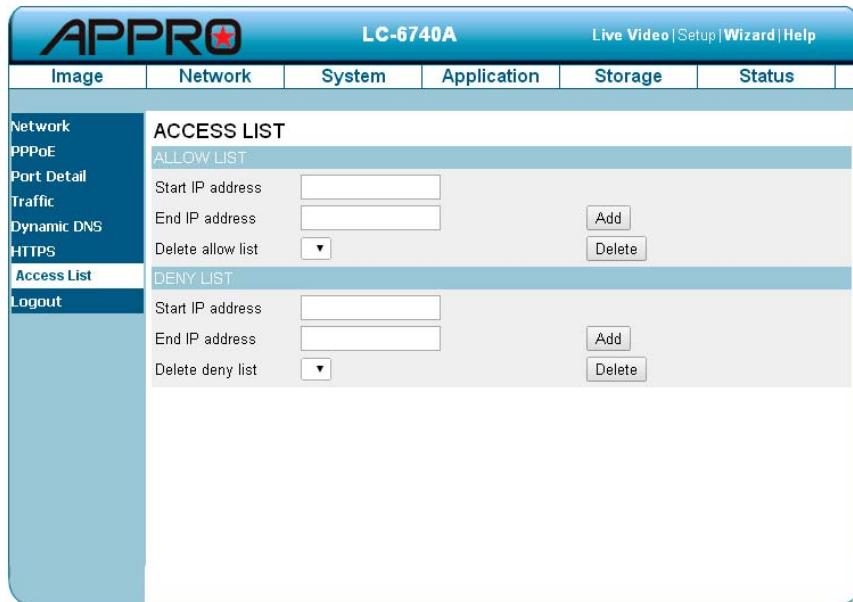
### **3. Create certificate request and install**

- (1) Enable HTTPS secure connection.
- (2) Click “Create self-signed certificate automatically” to open the Create certificate column.
- (3) Click the Create button.
- (4) If you see an Information bar, click OK and click on the Information bar at the top of the page to allow pop-ups.
- (5) The pop-up windows will show a certificate request.
- (6) Look for a trusted certificate authority that issues digital certificates. Enroll the IP camera. Wait for the certificate authority to issue a SSL certificate; click “Browse...” to search for the issued certificate, then click “Upload” on the Create certificate column.
- (7) The new Certification Information will show in the third column on the HTTPS setting page.

- Change the Network Setting —Access List.

The “Network” page has, on its upper left, the “Access List” icon. Please follow the steps below to change the Access List setting through the network as necessary.

1. Click on the **Access List** button on the upper left menu to enter the “Access List” page.



2. Fill in the “Start IP address”, “End IP address” and “Delete allow list” details of the “Allow List”. Press the “Add” button to add or press “Delete” to erase it.
3. Fill in the “Start IP address”, “End IP address” and “Delete deny list” details of the “Deny List”. Press the “Add” button to add or press “Delete” to erase it.
4. Click on the **Submit** button to submit the new setting.

**Description of function keys:**

Allow List:	
<b>Start IP Address</b>	The starting IP Address of the devices (such as a computer) which have permission to access the video of the camera.
<b>End IP Address</b>	The ending IP Address of the devices (such as a computer) which have permission to access the video of the camera.
<b>Delete Allow List</b>	Remove the customized setting from the Permission List.

<b>Deny List:</b>	
<b>Start IP Address</b>	The starting IP Address of the devices (such as a computer) which don't have permission to access the video of the camera.
<b>End IP Address</b>	The ending IP Address of the devices (such as a computer) which don't have permission to access the video of the camera.
<b>Delete Deny List</b>	Remove the customized setting from the Permission List.

**NOTE:** If there are any conflicts between the range of the Allow List and the range of the Deny List, the Access List within the range of the Deny List has the higher priority over the range of the Allow List.

For example, the range of the Allow List is set from 1.1.1.0 to 192.255.255.255 and the range of the Deny List is set from 1.1.1.0 to 170.255.255.255. Only users with IPs located between 171.0.0.0 and 192.255.255.255 can access the IP camera.

#### 5.1.3.4 Change the System Setting

Please follow the steps below to change the date and time of the system setting through the network as necessary.

- Set the Time and Date of the system

1. Click on the **System** button to enter the “Time And Date” page (default). From this section, you may automatically or manually configure, update and maintain the internal system clock for your camera.

The screenshot shows the APPRO LC-6740A web interface with the following details:

- Header:** APPRO LC-6740A, Live Video | Setup | Wizard | Help
- Navigation:** Image, Network, **System**, Application, Storage, Status
- Left Sidebar:** Time and Date, LED, User, Maintenance, Upgrade Firmware, Logout
- TIME AND DATE Section:**
  - TIME CONFIGURATION:** Time Zone: (UTC+08:00) Taipei, Time Format: YYYY/MM/DD,  Enable Daylight Saving (radio buttons for Auto Daylight Saving and Set date and time manually), Offset: +2:00, Month: 5, Week: 1, Day of week: Sunday, Hour: 00, Minutes: 00, Start time: 5, 1, Sunday, 00, 00, End time: 10, 1, Sunday, 00, 00.
  - AUTOMATIC TIME CONFIGURATION:**  Synchronize with NTP Server, NTP Server: pool.ntp.org.
  - SET DATE AND TIME MANUALLY:**  Set date and time manually, Copy Your Computer's Time Settings, Year: 2014, Month: 8, Day: 18, Hour: 11, Minute: 7, Second: 9.
- Submit Button:** A large blue button at the bottom right of the form.

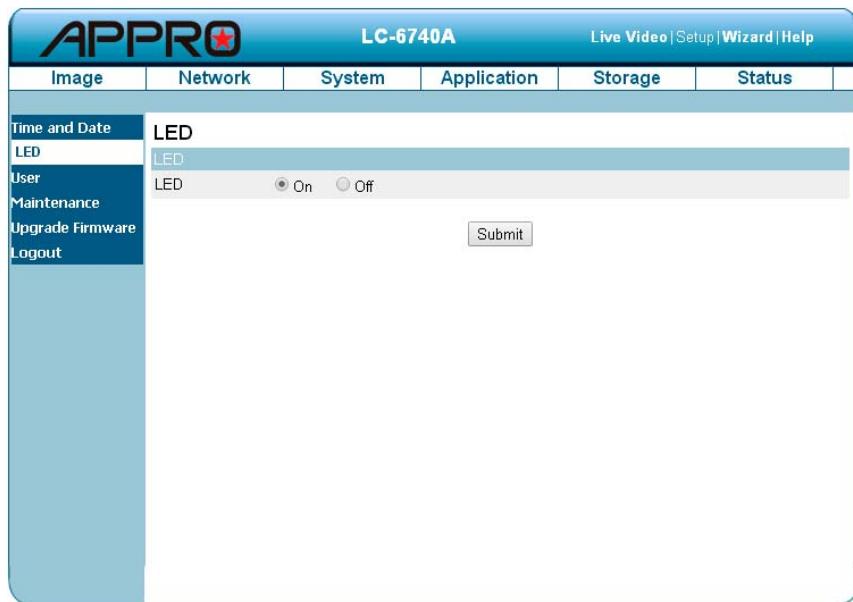
2. To set the Time Configuration, please select your time zone from the drop-down menu. Select this to enable the daylight saving time. Then Select "Auto Daylight Saving" or "Set date and time manually".
3. To set the Automatic Time Configuration, please checkmark "Synchronize with NTP Server" and enter the address of the NTP Server.
4. To set the Date and Time Manually, please checkmark "Set date and time manually". Press "Copy Your Computer's Time Settings" as necessary to synchronize the time information from your PC or just manually set the date and time from the drop-down lists.
5. Click on the **Submit** button to submit the new Date and Time settings.

**Description of function keys:**

<b>Time Zone:</b>	Select your time zone from the drop-down menu.
<b>Enable Daylight Saving:</b>	Select this to enable the daylight saving time.
<b>Auto Daylight Saving:</b>	Select this option so that your camera will configure the Daylight Saving setting automatically.
<b>Set date and time manually:</b>	Select this option so that you may configure the Daylight Saving date and time manually.
<b>Offset:</b>	Sets the amount of time to be added or removed when Daylight Saving is enabled.
<b>Synchronize with NTP server:</b>	Enable this feature to obtain time configuration automatically from the NTP server.
<b>NTP Server:</b>	The Network Time Protocol (NTP) synchronizes the device with an Internet time server. Choose the one that is closest to your location.
<b>Set the date and time manually:</b>	This option allows you to set the time and date manually.
<b>Copy Your Computer's Time Settings:</b>	This will synchronize the time information from your PC.

- Change the System Setting — LED.

You may enable the **LED** for your camera.



1. Click to set the LED “On” or “Off”.
2. Click on the **Submit** button to submit the new user’s setting.

**Description of function keys:**

LED	Select “ON” or “OFF” to use the item, which indicates a camera’s status.
-----	--

- Change the System Setting — Users.

You may modify the name and administrator's password of your camera, as well as add and manage the user accounts for accessing the camera. You may also use this section to create the unique name and configure the OSD setting for your camera. Please follow the steps below to change/add the users' authority through the network as necessary.

1. Click on the **Users** button on the left side of the "System" page to enter the "Users" page.

2. Add, modify or delete any user's data if necessary.
3. Click the **Add/ Modify User** button to submit the new user's settings.
4. Click the **Home** button to return to the home page.

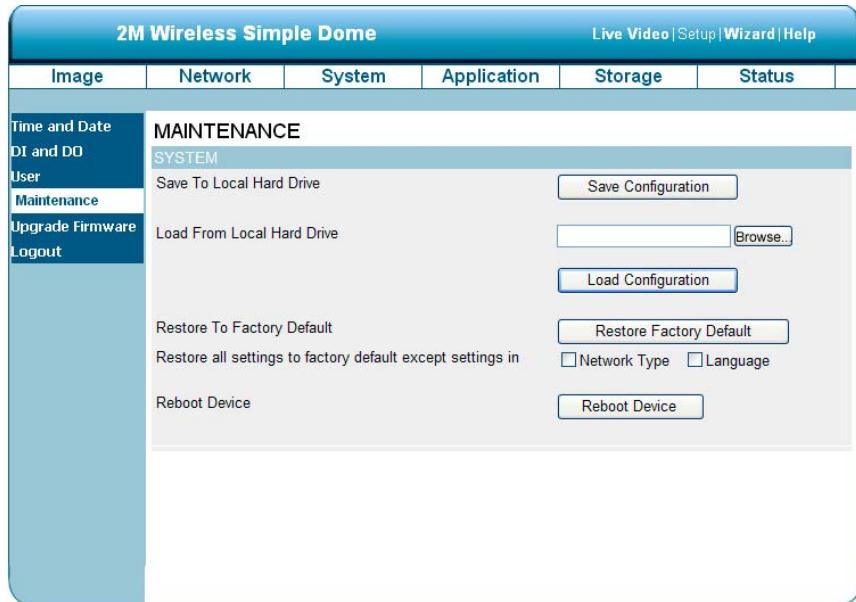
#### Description of function keys:

<b>User List:</b>	The list shows the registered user(s) and the corresponding authority.
<b>Delete:</b>	Deletes a selected user.
<b>Name:</b>	Enter the user's name, which will be added or modified.
<b>Password:</b>	Enter the new password of the user's name above.
<b>Confirm:</b>	Type in the password again for verification.
<b>Authority:</b>	Choose an authority option of the user's name from: Admin, Operator, and Viewer.
<b>Add/ Modify User:</b>	Click to submit the new setting to the IP camera.

- Change the System Setting — Maintenance.

Please follow the steps below to change the system setting through the network as necessary.

Click on the **Maintenance** button on the left side of the “Date and Time” page to enter the “Maintenance” page.



**Description of function keys:**

<b>Save Configuration:</b>	Click on “Save Configuration” to save the configuration files to the local hard drive.
<b>Load Configuration:</b>	Browse and click on the “Load Configuration” to load the configuration files to the local hard drive.
<b>Restore Factory Defaults:</b>	Click on “Restore Factory Defaults” to restore the factory defaults. You may browse and load the configuration file. This option will restore the pre-configured or saved settings
<b>Reboot Device:</b>	Click on “Reboot Device” to reboot the device. This option will restart the camera.

- Change the System Setting — Update Firmware.

Please follow the steps below to update the firmware through the network as necessary.

1. Click on the **Firmware Upgrade** button on the left side of the “Date and Time” page to enter the “Firmware Upgrade” page.

The screenshot shows a web-based configuration interface for a '2M Wireless Simple Dome' camera. The top navigation bar includes 'Live Video', 'Setup', 'Wizard', and 'Help'. The main menu bar has tabs for 'Image', 'Network', 'System', 'Application', 'Storage', and 'Status'. On the left, a sidebar menu under 'Maintenance' has 'Upgrade Firmware' selected. The main content area displays the 'UPGRADE FIRMWARE' page. It includes a 'FIRMWARE INFORMATION' section showing 'Current Firmware Version: 1.00' and 'Current Product Name: 2M Wireless Simple Dome'. Below this is another 'UPGRADE FIRMWARE' section with a file input field labeled 'File Path:' and a 'Browse...' button, followed by an 'Upload' button.

2. Click on the “Browse...” button to select the UPDATE.BIN file which was copied into your computer.
3. Click on the “Upload” button.

**NOTE: DO NOT power off the IP camera while updating firmware.**

**NOTE: Don't interrupt the process while the unit is updating itself.**

**NOTE: Please make sure that the UPDATE.BIN file is appropriate to the model of the unit.**

**Updating with the wrong UPDATE.BIN file may cause physical damage to the device.**

**NOTE: The Temporary Internet Files (or cache) folder contains Web page content that is stored in your hard disk for quick viewing. We suggest deleting the Temporary Internet Files immediately after updating the firmware. To delete the files in the Temporary Internet Files folder, follow these steps:**

1. Quit Internet Explorer and quit any instances of Windows Explorer.
2. Click **Start**, click **Control Panel**, and then double-click **Internet Options**.
3. On the **General** tab, click **Delete Files** under **Temporary Internet Files**.
4. Select the **Delete all offline content** check box in the **Delete Files** dialog box, and then click **OK**.
5. Click **OK**.

### 5.1.3.5 Change the Application Setting

Please follow the steps below to change the application setting through the network as necessary.

- Change the Application Setting —Language Setting.

Please follow the steps below to change the Language setting via the network as necessary.

1. Click on the **Language** button on the left side to enter the “Language Setting” page.

The screenshot shows the '2M Wireless Simple Dome' application interface. The top navigation bar includes 'Live Video', 'Setup', 'Wizard', and 'Help'. The main menu bar has tabs for 'Image', 'Network', 'System', 'Application', 'Storage', and 'Status'. On the left, a sidebar menu lists 'Language', 'Motion Detection', 'Event', and 'Logout'. The central content area is titled 'LANGUAGE SETUP' and 'LANGUAGE SETTING'. It features a dropdown menu for 'Language' set to 'English(English)' with a checked checkbox, and a 'Submit' button below it.

You have an option as to which language to use.

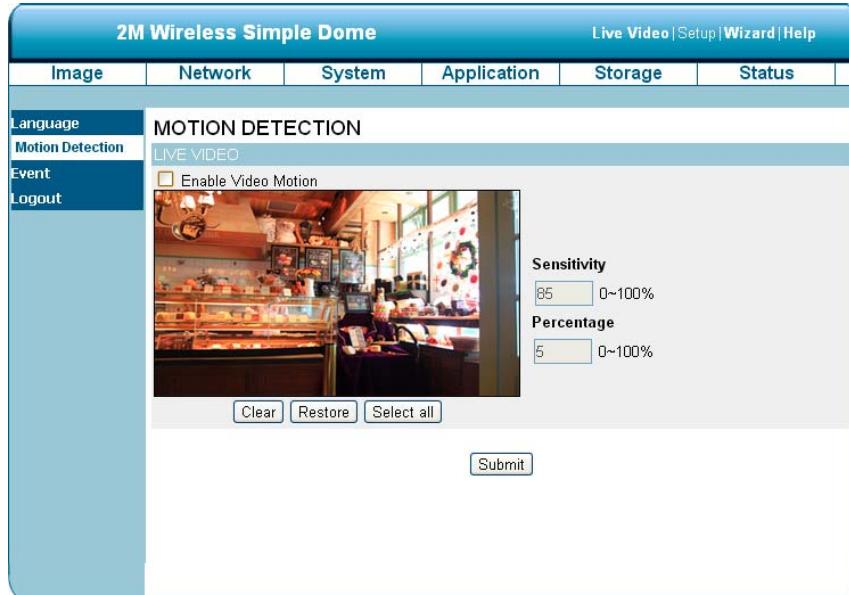
2. Choose your selected language and click "Submit" to set it.

- Change the Application Setting —Motion Detection.

Please follow the steps below to enable changes in the motion detection function of the alarm through the network as necessary.

Set the motion detection:

1. Click on the **Motion Detection** button on the left side of the Alarm to enter the “Motion Detection” page.



2. Click and drag the mouse across a targeted zone to draw a rectangle on the image.

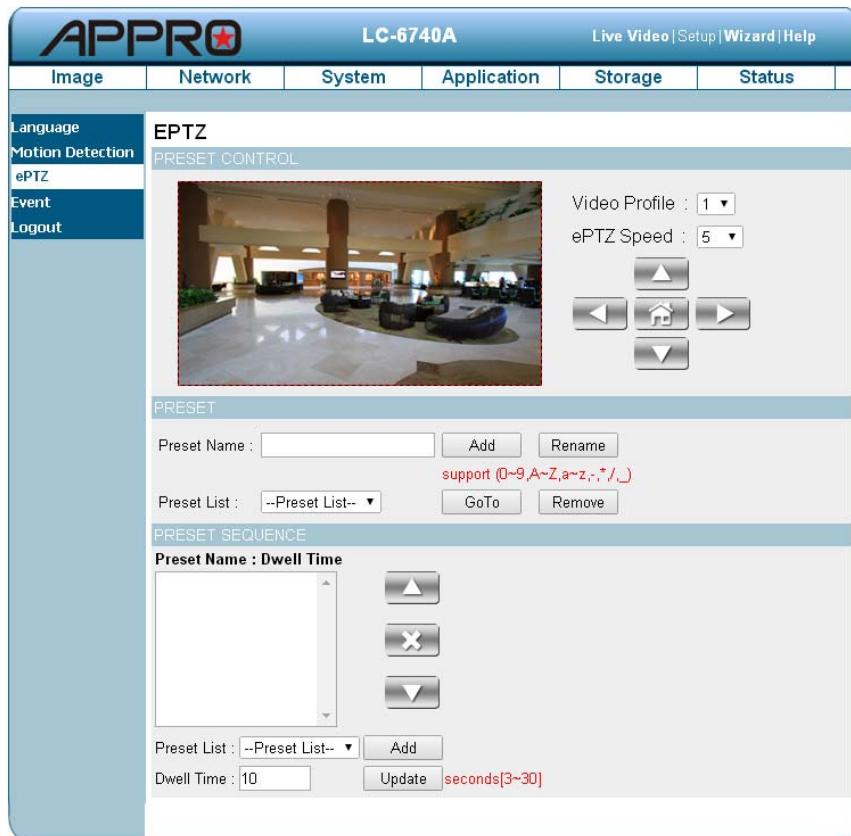
**NOTE: You can set more than one targeted zone depending on your requirement.**

3. Enables / disables the motion detection function.
4. Click on the **Submit** button to submit the new setting of the recording.

- Change the Application Setting —ePTZ.

This screen allows you to set preset points for the ePTZ function of the camera, which allows you to look around the camera's viewable area by using a zoomed view. Presets allow you to quickly go to and view a specific part of the area your camera is covering, and you can create preset sequences, which will automatically change the camera's view between the different presets according to a defined order and timing you can set.

1. Click on the **ePTZ** button on the left side of the Alarm to enter the "Motion Detection" page.



**Description of function keys:**

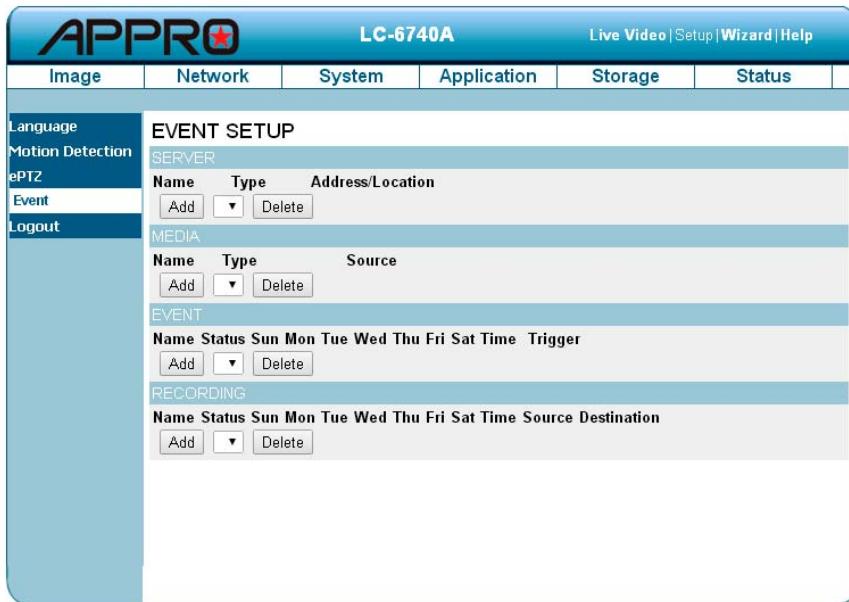
<b>Video Profile:</b>	This selects which video profile to use.
<b>ePTZ Speed:</b>	You may select a value between 0 and 64. 0 is the slowest and 64 is the fastest.
<b>Arrow Buttons and Home Button:</b>	Use these buttons to move to a specific part of the viewing area, which you can then set as a preset. Click the Home button to return to the center of the viewing area.

<b>Input Preset Name:</b>	Enter the name of the preset you want to create, then click the Add button to make a new preset. If an existing preset has been selected from the Preset List, you can change its name by typing in a new name, then clicking the Rename button. Using the Pan, Tilt and Zoom (PTZ) controls, move the camera view to the required position and simply by selecting the preset's name.
<b>Add</b>	Saves a preset position in the camera.
<b>GoTo</b>	Tests the preset the preset position.
<b>Preset List:</b>	Click this drop-down box to see a list of all the presets that have been created. You can select one, then click the GoTo button to change the displayed camera view to the preset. Clicking the Remove button will delete the currently selected preset.
<b>Preset Sequence:</b>	<p>This section allows you to create a preset sequence, which automatically moves the camera's view between a set of preset views. A preset sequence is an automated series of camera movements from one preset position to another. A guard tour can be set up to display the video streams from different preset positions in a pre-determined order, and for configurable time periods.</p> <p><b>Add:</b> Set up a new preset sequence, <b>Modify</b> to change, and <b>Remove</b> to remove an existing preset sequence.</p>

- Change the Application Setting —Event.

In this section, you can configure and schedule the recording setting for your IP camera.

Click on “Add” to enter the setting pages of the Server, Media, Event and Recording to make the advanced settings. Or click on “Delete” to erase the settings.



The Event Setup page includes 4 different sections: Server, Media, Event and Recording.

1. To add a new item - "event, server or media," click Add.
2. To delete the selected item from the pull-down menu of event, server or media, click Delete.
3. Click on the item name to enter the window for modifying.

**NOTE: You can add up to five servers, five media fields, three event schedules, and two recording schedules.**

**Server:**

Click on the **Add** button in the Server column to enter the “Server” setting page.

The screenshot shows the APPRO LC-6740A web interface with the following details:

- Header:** APPRO LC-6740A, Live Video, Setup, Wizard, Help.
- Left Sidebar:** Language, Motion Detection, ePTZ, Event, Logout.
- Application Tab:** Active.
- Server Type:**
  - Email:** Sender email address, Recipient email address, Server address, User name, Password, Port (25),  This server requires a secure connection (StartTLS).
  - FTP:** Server address, Port (21), User name, Password, Remote folder name,  Passive mode.
  - Network storage:** Network storage location (example: \\my\_nas\\disk\\folder), Workgroup, User name, Password, Primary WINS server.
  - SD Card:** (Not currently selected).
- Buttons:** Test, Submit, Don't Submit.

1. Enter the Server name, the unique name for a server. There are four kinds of servers supported. They are email server, FTP server, HTTP server and network storage.
2. Set the details of the Email. **“Sender email address”**: The email address of the sender. **“Recipient email address”**: The email address of the recipient.
3. Set the details of the FTP. **“Remote folder name”**: An authorized folder on the external FTP server. The string must conform to that of the external FTP server. Some FTP servers cannot accept a preceding slash symbol before the path without virtual path mapping. Refer

to the instructions for the external FTP server for details. The folder privilege must be open for uploading. **"Passive Mode"**: Check it to enable the passive mode in transmission.

4. Set the details of the Network storage. Only one network storage is supported. **"Network storage location"**: The path to upload the media. **"Workgroup"**: The workgroup for network storage.
5. Click on the SD card to activate the function. Use the SD card for recording media.
6. Click on "Submit" to save or click on "Don't Submit" to go back to the Event main page.

#### **Server settings:**

- (1) Click **Add** under the Sever column on Event Settings page to open the Server setting page. On this page, you can specify where the notification has been sent when a trigger is activated. A total of 5 server settings can be configured.

**NOTE: The maximum server settings amount is five, however, you can set the Network storage or the SD card for only one.**

- (2) Enter the Server Name for the server setting.
- (3) Select the Server Type. There are four choices of server types available: Email, FTP, Network storage and SD card. Select one of the server types.
  - **Email:** Select to send the media files via the email when a trigger is activated.
    - (a) Sender email address: Enter the email address of the sender.
    - (b) Recipient email address: Enter the email address of the recipient.
    - (c) Server address: Enter the domain or IP address of the email server.
    - (d) User name: Enter the user name of the email account if necessary.
    - (e) Password: Enter the password of the email account if necessary.
    - (f) Port: The default email server port is 25. You can also manually set another port.
    - (g) To verify if the email setting is correctly configured, click the Test button. The result will be shown in above this setting page (TEST OK or TEST ERROR). If successful, you will receive an email indicating the result.
    - (h) Click Submit to activate the setting.

- **FTP:** Select to send the media files to an FTP server when a trigger is activated.
  - (a) Server address: Enter the domain or IP address of the FTP server.
  - (b) Port: The default FTP server port is 21. It can also be assigned to another port number.
  - (c) User name: Enter the login name of the FTP account.
  - (d) Password: Enter the password of the FTP account.
  - (e) Remote folder name: Enter the folder where the media file will be placed. If the folder name does not exist, the IP camera will create one on the FTP server.
  - (f) Passive mode: Most firewalls do not accept new connections initiated from external requests. If the FTP server supports passive mode, select this option to enable passive mode FTP and allow data transmission to pass through the firewall.
  - (g) To verify if the FTP setting is correctly configured, click the Test button. The result will be shown in above this setting page (TEST OK or TEST ERROR).
  - (h) Click Submit to activate the setting.
  
- **Network storage:** Select to send the media files to a network storage location when a trigger is activated. Please fill in the information for your server.
  - (a) Network storage location: Enter the network storage path (\ server name or IP address\ folder name).
  - (b) Workgroup: Enter the workgroup name for the network storage server.
  - (c) User name: Enter the user name for the server.
  - (d) Password: Enter the password for the server.
  - (e) Primary WINS server:
  - (f) To verify if the storage setting is correctly configured, click the Test button. The result will be shown in above this setting page (TEST OK or TEST ERROR).
  - (g) Click Submit to activate the setting.

- **SD card:** Select to send the media files to an SD card when a trigger is activated.
  - (a) Insert your SD card first.
  - (b) To verify if the storage setting is correctly configured, click the Test button. The result will be shown in above this setting page (TEST OK or TEST ERROR).
  - (c) Click Submit to activate the setting.

(4) When completed, click Submit to enable the settings to exit this page. The new server settings will appear on the Event Settings page.

**NOTE: To remove a server setting from the list (Application> Event>), select a server name from the drop-down list and click Delete.**

**Note that only when the server setting is not being applied to an event setting (Application> Event> Event> The “Action” option) can it be deleted or the camera won’t take any action when a trigger is activated.**

**Media:**

Click on the **Add** button in the Media column to enter the “Media” setting page.

**MEDIA**

**MEDIA TYPE**

Media name:

Snapshot  
Source:

Send  pre-event image(s) [0~3]  
Send  post-event image(s) [0~7]

File Name Prefix:

Add date and time suffix to file name

Video Clip  
Source:

Pre-event recording:  seconds [0~3]  
Maximum duration:  seconds [1~100]  
Maximum file size:  Kbytes[100~5000]  
File Name Prefix:

System log

1. Enter the Media name, the unique name for media. There are three kinds of media: snapshot, video clip and system log.

2. Set the details of the Snapshot.

**"Source":** Select the video source.

**"Send Pre-event images":** The number of pre-event images.

**"Send Post-event images":** The number of post-event images.

**"File name prefix":** The prefix name will be added on the file name of the snapshot images.

**"Add date and time suffix to file name":** Check it to add timing information as file name suffix.

3. Set the details of the Video Clip.

**"Source":** Select the video source.

**"Pre-event recording":** The interval of pre-event recording in seconds. There are two

limitations for video clip file.

**"Maximum duration":** The maximum recording file duration in seconds.

**"Maximum file size":** The maximum file size would be generated.

4. Click on the System log to activate the function.
5. Click on "Submit" to save, or click on "Don't Submit" to go back to the Event main page.

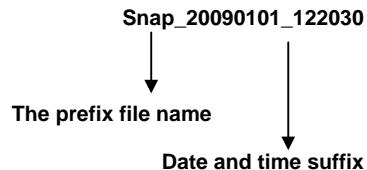
#### **Media settings:**

- (1) Click **Add** under the Media column on Event Settings page to open the Media setting page. On this page, you can specify the type of media that will be sent when a trigger is activated. A total of 5 media settings can be configured.
- (2) Enter the Media Name for the media setting.
- (3) Select the Media Type. There are three choices of media types available: Snapshot, Video Clip and System log. Select one of the media types.
  - **Snapshot:** Select to send snapshots when a trigger is activated.
    - (a) **Source:** Select to take snapshots from the video profile.
    - (b) **Send pre-event image(s) [0~4]:** The IP camera has a buffer area; it temporarily holds data up to a certain limit. Enter a number to decide how many images to capture before a trigger is activated. Up to 4 images can be generated.
    - (c) **Send post-event image(s) [0~7]:** Enter a number to decide how many images to capture after a trigger is activated. Up to 7 images can be generated.

**NOTE: For example, if both the Send pre-event images and Send post-event images are set to 4, a total of 8 images are generated after a trigger is activated.**

- (d) **File Name Prefix:** Enter the text that will be appended to the front of the file name.

For example, the file name will be in this form:



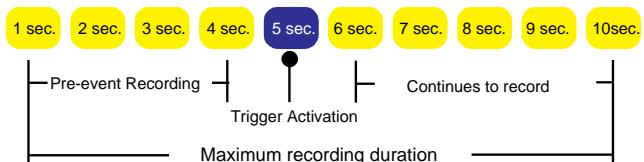
The format is: YYYYMMDD\_HHMMSS

- (e) Add date and time suffix to file name: Select the option to add the date/ time suffix to the file name.
- (f) Click Submit to activate the setting.

- **Video Clip:** Select to send video clips when a trigger is activated.

- (a) Source: Select to record video clips from the video profile.
- (b) Pre-event recording: The IP camera has a buffer area; it temporarily holds data up to a certain limit. Enter a number to decide the duration of recording before a trigger is activated. Up to 4 seconds can be set.
- (c) Maximum duration: Specify the maximum recording duration in seconds. Up to 100 seconds can be set.

**NOTE: For example, if pre-event recording is set to 4 seconds and the maximum duration is set to 10 seconds, the IP camera continues to record for another 5 seconds after a trigger is activated.**



- (d) Maximum file size: Specify the maximum file size allowed.
- (e) File Name Prefix: Enter the text that will be appended to the front of the file name.
- (f) Click Submit to activate the setting.

- **System log:** Select to send a system log when a trigger is activated. Click Submit to activate the setting.

(4) When completed, click Submit to enable the settings to exit this page. The new media settings will appear on the Event Settings page.

**NOTE: To remove a media setting from the list (Application> Event>), select a media name from the drop-down list and click Delete.**

**Note that only when the media setting is not being applied to an event setting (Application> Event> Event> The “Attached media” item) can it be deleted or you can't get the images/ logs when a trigger is activated.**

**Event:**

Click on the **Add** button in the Event column to enter the “Event” setting page.

Language

Motion Detection

ePTZ

**Event**

Logout

**LC-6740A**

Live Video | Setup | Wizard | Help

**EVENT**

**EVENT**

Event name:

Enable this event

Priority:

Delay for  seconds before detecting next event [for motion detection and digital input]

**TRIGGER**

Video motion detection

Periodic

Trigger every  minutes

System boot

Network Loss

**EVENT SCHEDULE**

Sun  Mon  Tue  Wed  Thu  Fri  Sat

Time

Always

From   To

1. Enter the Event name. Checkmark the “Enable this event” box and activate the function.

Then set the Priority and the Source from the drop-down list.

**“Priority”:** The event with higher priority will be executed first.

2. Select the event trigger mode.

**“Video motion detection”:** Select the windows which need to be monitored.

**“Periodic”:** The event is triggered in specified intervals. The unit of trigger interval is a minute.

**“Digital input”:** The event is triggered when the DI status is changed by an external device.

**“System boot”:** The event is triggered when the system boots up.

**“Network Loss”:** The event is triggered when the network disconnect.

3. Set the recording schedule time.

4. Set the Trigger D/O of activating the action. Check it to trigger digital output for specific

seconds when an event is triggered.

5. Click on “Submit” to save or click on “Don’t Submit” to go back to the Event main page.

**Event settings:**

- (1) Click **Add** under the Event column on Event Settings page to open the Event setting page. On this page, you can arrange three parts –Trigger, Event Schedule, and Action to set an event. A total of 3 event settings can be configured.
- (2) Enter the Event Name for the event setting.
- (3) Select “Enable this event” option to enable the event setting.
- (4) Set the event priority from: “normal”, “high” and “highest”. Events with a higher priority will be executed first.
- (5) Enter the duration in seconds to pause motion detection after a motion is detected (for the trigger types - motion detection and digital input – use only).
- (6) An event is an action initiated by a user-defined trigger source; it is the causal arrangement of the following three parts: Trigger, Event Schedule, and Action. Set the event details of each part.
  - **Trigger:** This option defines when to trigger the IP camera. The trigger source can be configured to use the IP camera’s built-in motion detection mechanism, periodic, external digital input devices or system boot. There are several choices of trigger sources as shown below.
    - (a) Video motion detection: This option makes use of the built-in motion detection mechanism as a trigger source. To enable this function, you need to configure a motion detection windows first.

**NOTE: For example, when the event status is on, once an event is triggered by motion detection, the IP Camera will automatically send snapshots, video clips or System log via the server type as your settings.**

- (b) Periodic: This option allows the IP camera to trigger periodically for every other defined minute(s). UP to 99999 minutes.
- (c) Digital input: This option allows the IP camera to use an external digital input device or sensor as a trigger source. Depending on your application, there

are many choices of digital input devices on the market which helps to detect changes in temperature, vibration, sound, and light, etc.

- (d) System boot: This option triggers the IP camera when the power to the IP camera is disconnected.
- (e) Network Loss: This option triggers the IP camera when the network to the IP camera is disconnected.

· **Event Schedule:** Specify the period for the event.

- (a) Select the days of the week.
- (b) Set the recording schedule in the 24-hour time format.

· **Action:** Define the actions to be performed by the IP camera when a trigger is activated.

- (a) Trigger D/O for ~ seconds: Select this option to turn on the external digital output device when a trigger is activated. Specify the length of the trigger interval in the text box.
- (b) If you want to set an event with recorded video or snapshots, it is necessary to configure the server and media settings first so that the IP camera will know what action to take (such as which server to send the media files to) when a trigger is activated.

Checkmark the one of the Server Names which you have set already, then select the Attached media (the media name) from the drop-down list.

(7) When completed, click Submit to enable the settings to exit this page. The new event settings will appear on the Event Settings page.

**NOTE: The new event settings / server settings / media settings will appear in the event drop-down list on the “Application> Event>” page.**

## Recording:

Click on the **Add** button in the Recording column to enter the “Recording” setting page.

The screenshot shows the APPRO LC-6740A web interface. The left sidebar has a 'Logout' button highlighted. The main area shows the 'RECORDING' settings page. It includes fields for 'Recording entry name', 'Enable this recording' (unchecked), 'Priority' (normal), 'Source' (Profile 1), 'Recording Schedule' (checkboxes for Sun-Fri, radio buttons for Always or From/To times), 'Recording Settings' (Destination: None, Total cycling recording size: 200 Mbytes, Size of each file for recording: 10 Mbytes, File Name Prefix: empty), and two buttons: 'Submit' and 'Don't Submit'.

1. Enter the Recording entry name. Checkmark the “Enable this recording” box and activate the function. Enable this option if you want to upload the recording to a shared folder in the network. Then set the Priority and the Source from the drop-down list.
2. Set the recording schedule time. Select the day(s) according to when you want the camera to make a video clip.
3. Set the details of the recorded file.  
“**Always**”: This enables the camera to make video clips continuously.  
“**From**”: The time range specified for the video clip.
4. Click on “Submit” to save or click on “Don’t Submit” to go back to the Event main page.

### **Record settings:**

- (1) Click **Add** under the Record column on Event Settings page to open the Record setting page. In this page, you can define the recording source, recording schedule and recording capacity. A total of 2 recording settings can be configured.
- (2) Enter the Record entry name for the event setting.
- (3) Select “Enable this recording” option to enable the recording setting.
- (4) Select the recording priority from: “normal”, “high” and “highest”. Recording with a higher priority will be executed first.
- (5) Select the recording source from the drop-down list (profiles).
- (6) Specify the recording schedule and the recording settings.
  - **Recording Schedule:**
    - (a) Select the days of the week.
    - (b) Set the recording schedule in the 24-hour time format.
  - **Recording Settings:**
    - (a) Destination: You can select the SD card or SAMBA (Network storage) that was set up for the recorded video files.
    - (b) Total cycling recording size: When the maximum capacity is reached the value you set, the oldest file will be overwritten by the latest one. The reserved amount is reserved for cyclic recording to prevent malfunction. The limited value is 1000~200000000 Kbytes.
    - (c) Size of each file for recording: Set the maximum file size of each recording video files.
    - (d) File Name Prefix: Enter the text that will be appended to the front of the file name.
- (7) When completed, click Submit to enable the settings to exit this page. The new media settings will appear on the Event Settings page.

### 5.1.3.6 Change the Storage Setting

Please follow the steps below to change the SD card setting through the network as necessary.

- Change the SD card Setting.

Please follow the steps below to change the setting via the network as necessary.

1. Click on the “storage” button at the top of the Setup page to enter the “SD Card” screen.



Delete	File	Number of files	Size
<input type="checkbox"/>	Video	1	
<input type="checkbox"/>	Picture	1	
<input type="checkbox"/>	test.txt	1	

SD Card: / SD Status : Ready  
Files per Page: 10 Refresh 1 of 1  
Format SD Card Total: 3989864KB, Used: 36KB, Free: 3989828KB  
Submit

2. The SD Card page contains two image modes, the Video and the Picture.
3. Click “Video” or “Picture” to enter its sub year-month folder.
4. Click to enter its sub date folder.
5. Click the desired file to display the images therein.
6. Each file can be deleted by checking and pressing the OK button.

### 5.1.3.7 Status

- The device information.

This page displays all the information about your device and network connection.

Click on the “Device info” button of the Status page to enter the “Device info” screen.



DEVICE INFO		
INFORMATION		
Model Name	LC-6740A	
Device Name	LC-6740A	
Time & Date	Mon Aug 18 11:15:33 2014	
Firmware Version	1.01	
HTML Version	3.1.60	
ActiveX Version	2.0.0.67	
MAC Address	0A:0A:0A:67:40:A1	
IP Address	192.168.0.144	
IP Subnet Mask	255.255.252.0	
Default Gateway	0.0.0.0	
Primary DNS	0.0.0.0	
PPPoE	Disable	
DDNS	Disable	
TV Output Mode	NTSC	

- The device information.

This page displays the log information of your camera.

The screenshot shows the 'SYSTEM LOG' section of the device information page. The log entries are as follows:

```
Aug 14 05:45:48 syslog: IP CAMERA Received PERIODIC Trigger
Aug 14 05:45:49 syslog: IP CAMERA Received MOTION Trigger
Aug 14 05:45:49 syslog: MOTION STOPPED
Aug 14 05:45:59 syslog: IP CAMERA Received MOTION Trigger
Aug 14 05:45:59 syslog: MOTION STOPPED
Aug 14 05:46:09 syslog: IP CAMERA Received MOTION Trigger
Aug 14 05:46:13 syslog: MOTION STOPPED
Aug 14 05:46:19 syslog: IP CAMERA Received MOTION Trigger
Aug 14 05:46:20 syslog: MOTION STOPPED
Aug 14 05:46:29 syslog: IP CAMERA Received MOTION Trigger
Aug 14 05:46:29 syslog: MOTION STOPPED
Aug 14 05:46:39 syslog: IP CAMERA Received MOTION Trigger
Aug 14 05:46:42 syslog: MOTION STOPPED
Aug 14 05:46:48 syslog: IP CAMERA Received PERIODIC Trigger
Aug 14 05:46:49 syslog: IP CAMERA Received MOTION Trigger
Aug 14 05:46:57 syslog: MOTION STOPPED
Aug 14 05:46:59 syslog: IP CAMERA Received MOTION Trigger
Aug 14 05:46:59 syslog: MOTION STOPPED
Aug 14 05:47:09 syslog: IP CAMERA Received MOTION Trigger
Aug 14 05:47:09 syslog: MOTION STOPPED
```

Below the log, there are two buttons: 'Clear' and 'Download'.

1. Click on the “Device info” button of the Status page to enter the “Device info” screen.
2. Click on the “Clear “ to erase all of the logs. You may also download the information by clicking “Download”.

### 5.1.3.8 PPPoE & DDNS

#### Using the PPPoE

1. Install the XDSL software (obtained from your ISP dealer) in your PC.
2. Search your IP camera's IP address: you can connect the IP camera and the Video monitor.  
The monitor screen will show the IP address on its right side.
3. Turn off the DHCP function (of the IP camera) if it is "ON".
4. Installing an IP address in your PC or notebook.

Desktop → Move the mouse focus to the Network neighborhood and click the right key of the mouse → Choose the properties → Choose your local connection → Choose the properties and select the configuration → Select the TCP / IP → Choose the properties → Enter the IP address in a four-part formula, for example "192. 168. 1.101" (the first three parts must be identical to the above numbers, only the last part can be changed to your own number, which must never exceed 255) → Click on the mask and the mask input, namely "255. 255. 255. 0" (a fixed formula) → Click "OK" → Click "OK".

5. Desktop → Choose IE browser → Enter the IP camera IP address in the URL (check step # 2 above) → Enter → IP camera images will appear.

#### PPPoE Settings

1. Enter the IP camera home page → Choose the network → Enter "User Name: admin" and "Password: 9999" → Click "OK".
2. Choose PPPoE → PPPoE mode: Select "ON" → Enter "Account" → Enter "Password" → Submit → Unplug the power connection.
3. Plug in the IP camera and it will receive an IP address from the ISP dealer (this IP address is dynamic --- every time you unplug and plug in again you'll get a new IP address).

**Test: Go to the Internet.**

1. Set your PC to enter the Internet.
2. Desktop → IE browser → Enter the IP camera IP address (the same address as in the PPPoE settings and step 3 above) → You can see the IP camera images.

**DDNS settings**

1. Check your IP camera's IP address (monitor) → open your IE browser → Use the address to connect to the IP camera or view the images → Choose the network → Enter "User name : admin" and "Password : 9999" → Click "OK" .
2. Choose the "DDNS" → Click "Enable DDNS" → Enter the "DDNS host name", for example "abc123. homeip.net" → Enter "DDNS Account", for example "abc123" → Enter the "DNS Password", for example "7777" → Submit → The settings are now complete → Close the IE browser.
3. Open the IE browser again → Enter the Website address you just applied for, such as "abc123.homeip.net" → You can look at your IP camera images right away. The procedure is complete.

**NOTE: These settings are only for your ADSL Dynamic IP configuration. If your configuration is fixed (true IP), you don't need to proceed with the PPPoE and DDNS settings. The DDNS is just for your convenience.**

## 6. ADVANCED OPERATION

### Question 1:

**How do I view live images of the IP camera via the Internet Explorer on a Desktop PC or a laptop computers in a situation where there are no monitors?**

◇To get the IP address of the IP camera without a monitor, use one of the following two methods to get the IP address: UPnP.

UPnP: Please refer to **APPENDIX 1**.

### Question 2:

**How do I activate UPnP?**

1. Follow the default settings to set up the related settings, and connect the hardware.
2. Activate the Web browser and enter the IP camera's URL.
3. SETUP→Network button.
4. Select "Enable UPnP presentation".
5. Select "Enable UPnP port forwarding"; make the "Forwarding Port" setting.

**NOTE:**

1. Follow step 4 above then turn on computer's "My Web Neighbors" and find the IP camera. Then click to go to the IP camera's home page.
2. Follow step 5 above and make the Route UPnP port forwarding setting.
3. Your computer can access an IP camera through a router by opening a port on the router (port forwarding) if the router is configured to a specific port. For example port "8080", you can enter the IP address as <http://xxx.xxx.xxx:8080> on the URL entry box of the web browser to access the IP camera.

### Question 3:

**How to change the Video Profiles 1, 2, 3?**

- On Live page click Profiles 1, 2 & 3.

### Question 4:

**How do I set up the motion detection area and its sensitivity?**

1. Go to SETUP→ Application button →Motion Detection button.
2. Select "Enable Video Motion".
3. Set up the target zone and setup the Sensitivity and Percentage.
4. Click the **Submit** button to submit the setting.
5. When a person or object moves within the target zone under a setting, the Motion Detection will display the response signal in the Live Video and Video Out.

### Question 5:

## How do I use the DynDNS to connect the IP camera by using its Sub Hostname via the intranet?

### ◇Set the DDNS function

1. Click the **Network** button on the home page.
2. Click the **Dynamic DNS** button on the left side of the page to enter the “Dynamic DNS” page.
3. Click “Enable DDNS” to activate.
4. Enter the DDNS Host Name, DDNS Account and DDNS Password which you created in the [www.dyndns.com](http://www.dyndns.com) website.
5. Click the **Submit** button to save the settings.

**NOTE:** Please refer to the **APPENDIX 2** for more details.

### ◇Set the PPPoE function

1. Click the Network button on the home page.
2. Click the PPPoE button on the left side of the page to enter the “PPPoE” page.
3. Choose “Enable” to activate the function.
4. Enter the Account and the Password which are provided by your ISP.
5. Click the Submit button to save the setting.

**NOTE:** Please refer to section **4.1.3.8** for more details.

### ◇Use the Sub Hostname to view the IP camera

1. Click the URL block at the top of the computer screen.
2. Enter the DDNS Host Name of the IP camera into the URL block and press the “Enter” key to enter the login page.
3. Enter the user name and password.
4. Click the “OK” button and enter the home page of the IP camera.

## Question 6:

### How do I add or modify the users and their authority to use the IP camera?

### ◇Entering the setting page

1. Click the **System** button in the Setup page.
2. Click the **User** button on the left side of the page to enter the “USER” page.

### ◇Add a new user

1. Enter the user name, the password, the confirmed password and choose the authority level.

There are three levels of authority: Admin, Operator and Viewer.

**Admin:** The user who accesses with the admin name and password has the full rights to change the settings of the IP camera.

**Operator:** Has access to viewing and functionality.

**Viewer:** Has limited viewing rights.

2. Click the **Add/Modify User** button to submit the new user setting.

### ◇Modify the user

1. Click the user name you want to modify from the **USER LIST**.
2. Enter the password, the confirmed password and choose authority level.
3. Click the **Add/Modify User** button to submit new setting.

#### ◇Delete a user

1. Click the user name you want to delete from the **USER LIST**.
2. Click the **Delete User** button.

#### Question 7:

**How do I create the self-signed certificate manually?**

1. Go to Setup→Network button →HTTPS button
2. Select “Enable secure HTTPS connection”.
3. Create certificate settings→ Create self-signed certificate manually→Create.
4. Fill in the relevant data in the text boxes titled Country, State or province, Locality, Organization, Organization Unit, Common Name & Validity; click “Create”.

#### Question 8:

**How do I download the log list?**

1. Click Setup→ Status →Log.
2. The display will show the log list page.
3. Click First Page, Previous 20 or Next 20 to view the recording list.
4. Click Download; select the file path, and download the recording list.

## 7. SPECIFICATIONS

Model	LC-6740A/ LC-6740B Compact Dome IP Camera (Wi-Fi)	
Camera	Image sensor	1/4" OmniVision 720P CMOS sensor
	Lens	Fixed Focal Board Lens f:3.6mm F1.8.
	3-axis Angle (non-motorized)	Vertical: 30° ; Horizontal: 90° ; Rotational: 180°
	Wireless	IEEE 802.11n/b/g. (The Wi-Fi LC-6740B model only)
Image	Video Compression	H.264/ MJPEG.
	Resolution	· "4:3": 960x720, 800x592, 640x480, 480x360, 320x240. · "16:9": 1280x720, 800x448, 640x360, 480x272, 320x176.
	Frame Rate	NTSC: Maximum 30FPS (1920x1080). PAL: Maximum 25FPS (1920x1080)
	Video streaming	- Simultaneous H.264 and MJPEG. - Multi-profile: resolution / compression / frame rate / video quality.
	Profiles	2 (selectable)
	Image settings	- Adjustable image size, quality, and bit rate. - Day / Night mode. - Flip & Mirror. - AGC, AWB, AES. - Time stamp and text caption overlay. - Privacy masks. - Exposure Mode
	Video management software	SDK, including HTTP-API / ActiveX / ONVIF.
	Audio streaming	Two-way.
Audio	Compression	G.711u
	Audio bit rate	G.711u 64kbps
	Inputs / outputs:	Build-in Microphone & Speaker (5M).
Network	Security	Multi-level password protections, IP address filtering, HTTPS encryption, User access log.
	Protocols	IPv4, HTTPS, HTTP, TCP, UDP, RTP/RTCP/ RTSP, DHCP, NTP, FTP, SMTP, UPnP, ICMP, ARP, DDNS, PPPoE, SAMBA.
	Users	Access by 10 simultaneous users.
	Firmware update	SD card / HTTP.
Alarm	Recording	SD card, SAMBA, FTP
	Pre-alarm recording	Yes.
	Advanced motion	512 zones. Sensitivity: 0 - 100 %.
	Trigger	Motion Detection Schedule Alarm input Ethernet loss
	Notification	SD card recording, SMTP, FTP, HTTP

<b>Connectors</b>	RJ-45	10 BASE - T / 100 BASE -TX.
	DC-Jack	ϕ 6.5x2.0.
	Local storage device	Micro SD card slot
<b>Buttons</b>	Reset button	Yes
	WPS button	Yes (The Wi-Fi LC-6740B model only)
<b>General</b>	LED indicators	Network / Power/ WPS (The Wi-Fi LC-6740B model only).
	Power consumption	≤10W
	Power	- 12V DC ( DC power jack ). Approx. 6 W. - PoE: IEEE802.3af compliant 802.3af. Class 2
	OS	Linux 2.6 kernel.
	Operating conditions	-0°C to 50°C(32°F to 122°F)
	Approval	CE, FCC, RoHS
	Dimensions / Package Weights	60 x 107 mm./ 710g.
	Accessories included	- Quick Installation Guide. - CD x 1 ( includes User's Manual ). - Power adapter: (Input: 100-240 VAC, 50 / 60 Hz, Output: 12VDC, 1.5A). - RJ-45 cable x 1

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

## 8. Functions of client PC

System requirement	Microsoft Windows 8/7/Vista/XP SP3.
Browser	- Microsoft Internet Explorer 8, Firefox 12, Chrome 20, Safari 4. - Other Java-enabled browser.
Live Monitor	Real Time REC/ Capture/ Audio/ Live Event.
Playback Viewer	Playback, Time / live event Search / Export (JPEG / AVI).
Settings	Device/ System/ Camera management/ web page.
Client PCs	One camera can supports 10 simultaneous client PCs.

## APPENDIX 1. –How to run IP Camera UPnP

The most troublesome issue when you setup an IP Camera<sup>®</sup> is that you have no idea what the IP address of this device is. Now IP Camera<sup>®</sup> supports the UPnP (Universal Plug and Play) protocol which makes it easier for you to examine it; however, it is a pity that Microsoft Windows XP doesn't start this service by default. Therefore, the following procedures will help you to turn it on and discover your IP Camera<sup>®</sup> step by step as shown in Figure1 below.

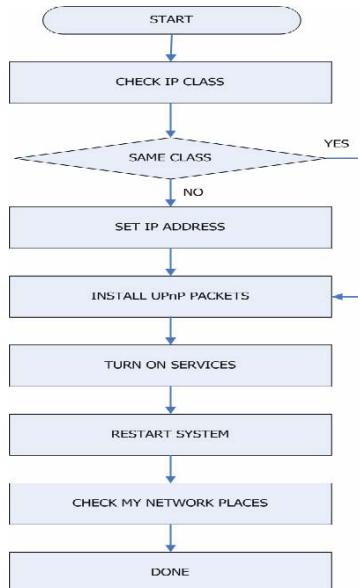


Figure 1 UPnP Setup Flow Chart

### 1. Check the IP class of your PC

In most case Microsoft Windows XP<sup>®</sup> will assign an IP address, 169.254.\*.\*<sup>®</sup>, automatically with a subnet mask, 255.255.0.0, if the DHCP server is absent, while the default IP address of an IP Camera<sup>®</sup> is 192.168.1.168 with a subnet mask of 255.255.255.0. There won't be any communication due to different IP class domains, and you have to modify the relative settings or the UPnP protocol won't work; however, checking your own IP address is necessary. Here are the procedures to check and modify them.

**Step 1:** From the **Start** menu, point to **Settings**, and then click **Control Panel**. See Figure 2.

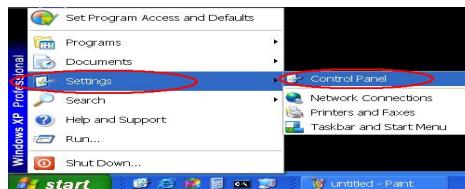


Figure 2

**Step 2:** When **Control Panel** appears, double-click the **Network Connections** icon. The **Network Connections** dialog box appears. See Figure 3.

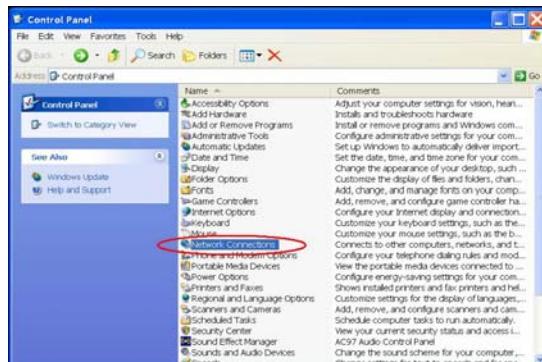


Figure 3

**Step 3:** Click the **Protocols** tab in the **Network Connections** dialog box. See Figure 4.

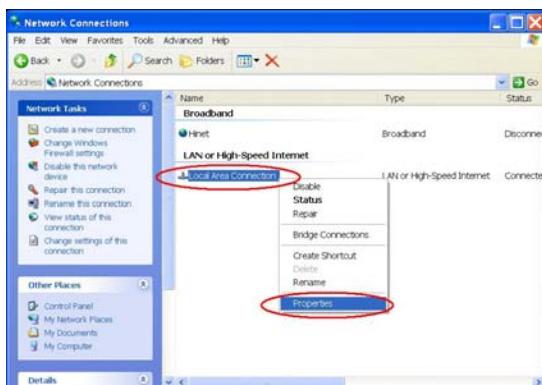


Figure 4

**Step 4:** When the **Local Area Connection Properties** dialog box shows up, choose **Internet Protocol (TCP/IP)** and click **Properties**. See Figure 5.

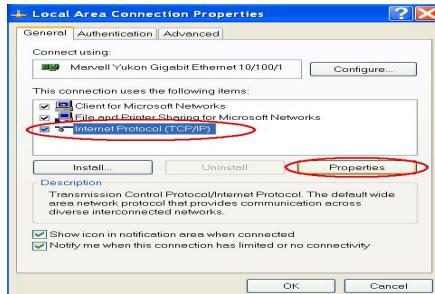


Figure 5

**Step 5:** In the **Internet Protocol(TCP/IP) Properties** dialog box, choose **Use the following IP Address**

**Address** to indicate that you do not wish to use DHCP, and assign IP Address

192.168.1.200 with Subnet mask 255.255.255.0.

Click **OK** when you finish it. See Figure 6.

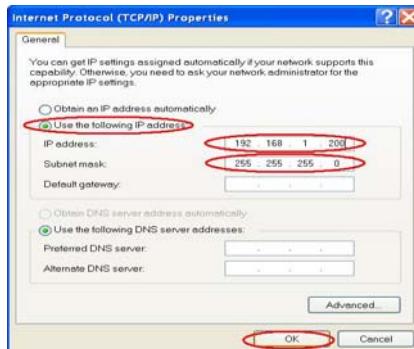


Figure 6

**Step 6:** Choose **Close** to finish the modification. See Figure 7.

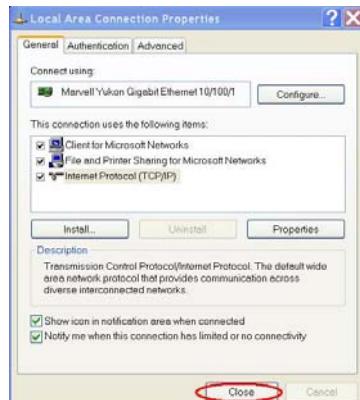


Figure7

## **2. Install UPnP Packets**

As described before, Microsoft Windows XP® doesn't start the UPnP service by default; however, we have to install some packets before we initialize it. The following steps will help you to install them.

**Step1:** In the **Start** menu, point to **Set Program Access and Default**, and then click it. See

Figure 8

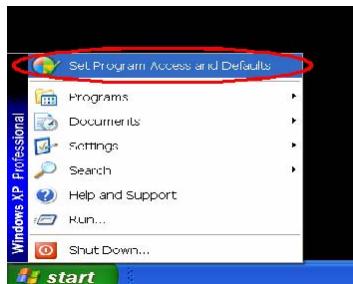


Figure 8

**Step 2:** When the **Add or Remove Programs** dialog box appears, click the **Add/Remove Windows Components** button. See Figure 9.

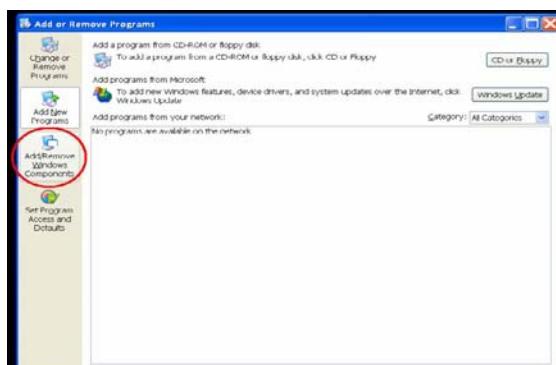


Figure 9

**Step 3:** Check the **Network Services** in the **Windows Component Wizard** dialog box, and then click **Details....** See Figure10.

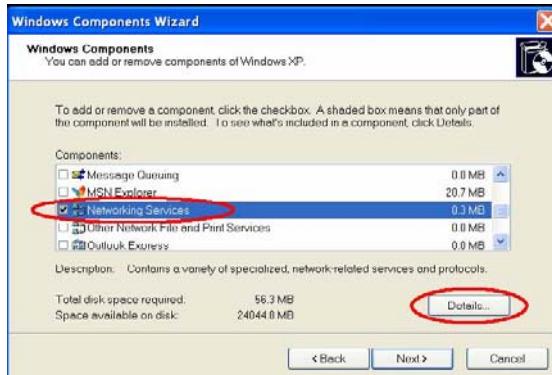


Figure 10

**Step 4:** Check **UPnP User Interface**, and choose **OK**. See Figure 11.

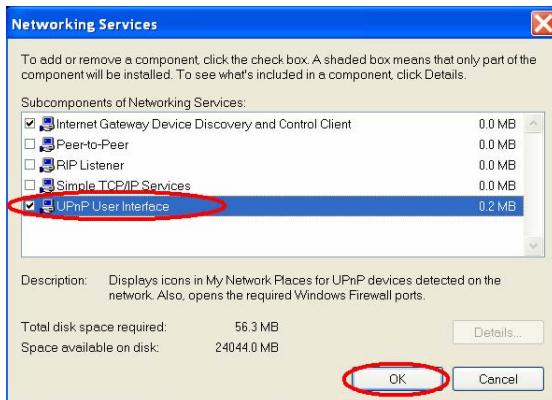


Figure 11

**Step 5:** When the original Network Component Wizard dialog box returns, click **Next**. See Figure12.

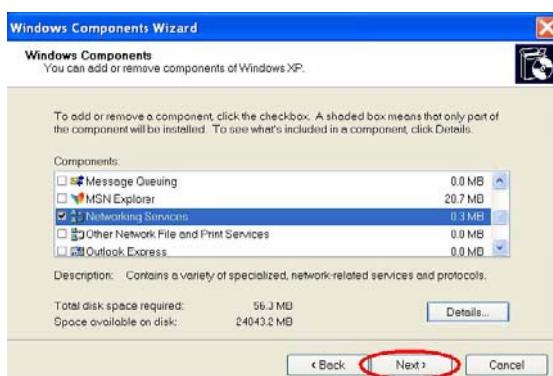


Figure 12

**Step 6:** After about one minute the UPnP installation will be done, and choose **Finish** to close it.

See Figure13.

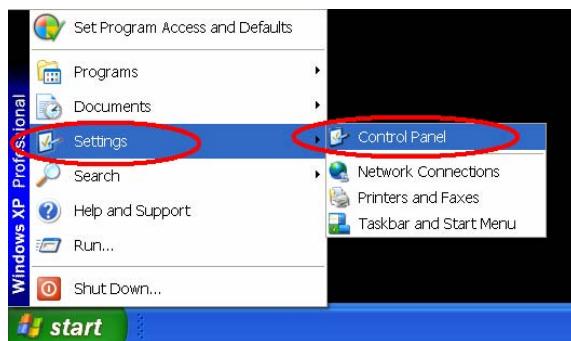


**Figure 13**

### **3. Turn on Services**

After installation, we should turn on the relative services to start the UPnP protocol. The following procedures will teach you how to do it.

**Step 1:** In the **Start** menu, point to **Settings**, and then click **Control Panel**. See Figure14.



**Figure 14**

**Step 2:** When **Control Panel** appears, double-click the **Administrative Tools** icon. The **Administrative Tools** dialog box appears. See Figure15.

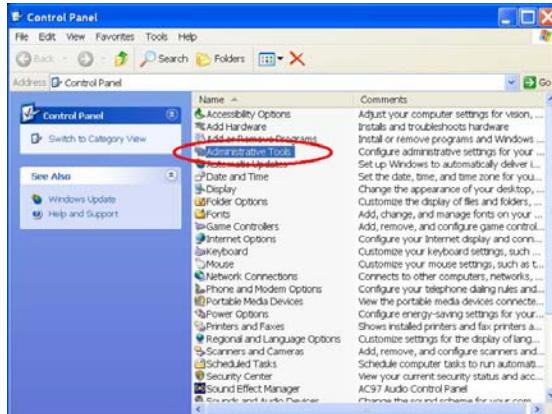


Figure15

**Step 3:** Click the **Services** icon in the **Administrative Tools** dialog box. See Figure16.

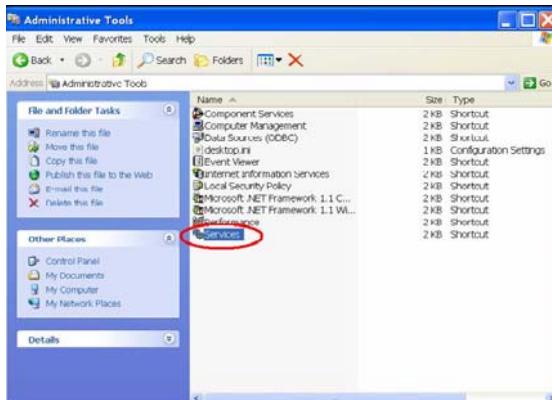


Figure16

**Step 4:** When the **Services** dialog box shows up, double click the **SSDP Discovery Service** icon. See Figure17.

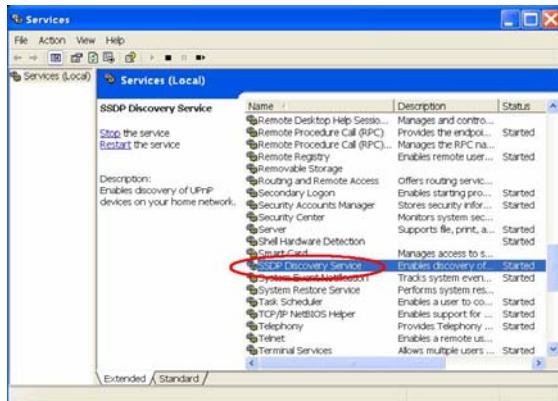


Figure17

**Step 5:** Choose **Automatic** in the **Startup type**, and click **OK** to start it. See Figure18.

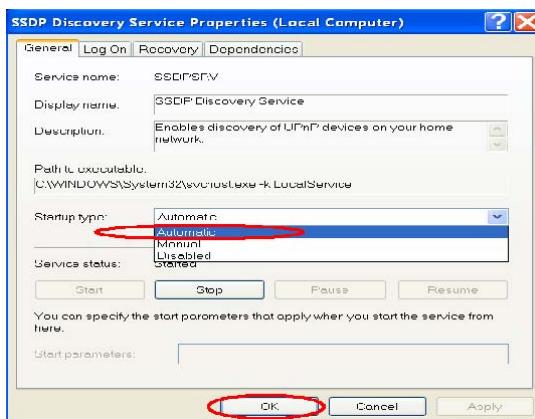


Figure18

**Step 6:** When the **Services** dialog box appears again, double click the **Universal Plug and Play Device Host** icon. See Figure19.

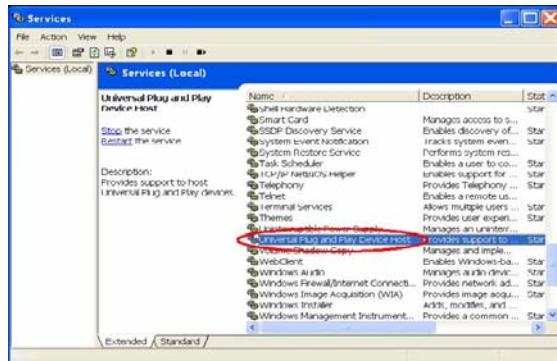


Figure19

**Step 7:** Choose **Automatic** in the Startup type, press the **Start** button, and click **OK** to start it.

See Figure20.

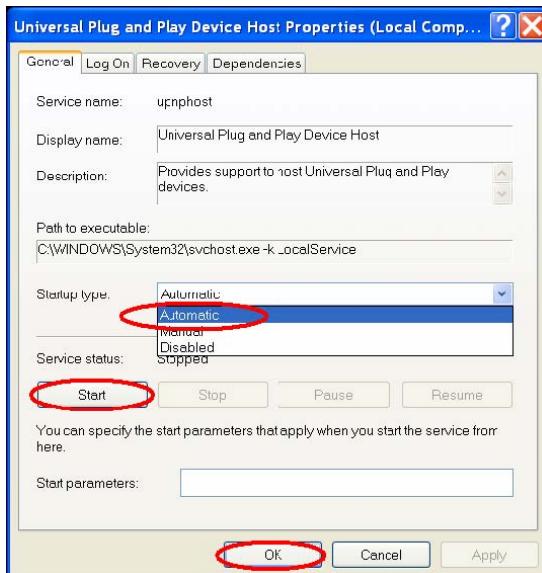
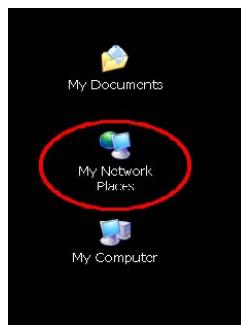


Figure20

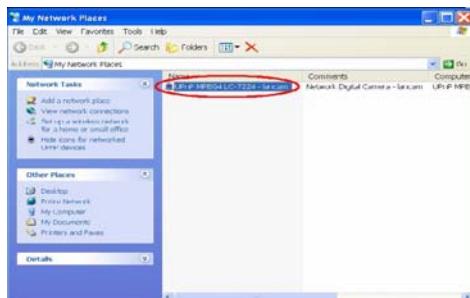
**Step 8:** Restart your system.

#### **4. Scan IP Cameras<sup>®</sup> through My Network Place**

After you complete the installation and starting services, the UPnP protocol will take effect. You can scan all IP Cameras<sup>®</sup> in My Network Place, as in Figure21 and Figure22 below.



**Figure21**



**Figure22**

Just double click the **UPnP IP Camera** icon, and the video live stream will pop up automatically without assigning any IP address in Microsoft Internet Explorer<sup>®</sup>.