

# Wireless IP Camera



Article number 36-2914  
18-2062

Model RC8030  
RC8030-UK

**CLAS OHLSON**



# Wireless IP Camera

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                                  **18-2062**    **RC8030-UK**

Please read the entire instruction manual before using the product and save it for future reference. We apologise for any text or photographic errors and any changes of technical data. If you have any questions concerning technical problems please contact our Customer Service Department (see address on reverse).

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## 1. Safety

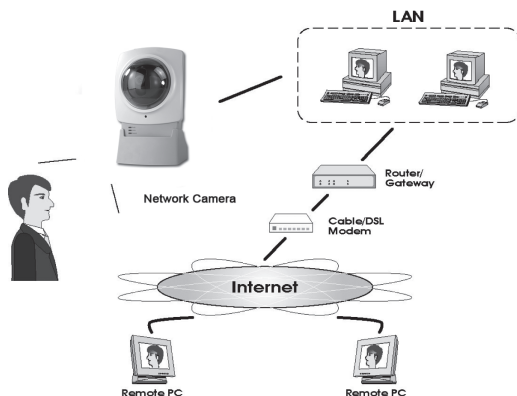
- The camera is for indoor use only.
- Use only the supplied or recommended power adaptor (5 V DC).
- Never expose the camera to moisture or humidity.
- Always disconnect the camera from the electricity network before cleaning.
- Never dismantle the camera. Certain parts inside the casing carry dangerous currents. Touching these can give you an electric shock.

## 2. Product Description

### 2.1 Features

Wireless IP camera with motor with the possibility to control the camera from another computer.

- 126° (horizontal) + 64° (vertical) panorama angle.
- CMOS Picture sensor.
- The MPEG 4 technology offers high video quality but reduced band width directly to pc.
- Built-in microphone and connector for speakers for two-way communication between computer and camera.
- Software programme for configuration, monitoring, and recording.
- Configuration via installation guide.
- Alarm and recording during motion detection.
- Scheduled recording.



#### Internet functions

- **Definable http-port** Allows the user to pick a port for access via the Internet.
- **Support for DDNS (Dynamic DNS)** Function for updates against a Dynamic DNS-server.
- **NTP (Network Time Protocol)** Synchronization of the clock against an Internet time server.

#### Safety Features

- **User verification** The camera can be password protected for up to 20 users.
- **Password protected configuration** Prevents unauthorized change of the camera's properties.

## 2.2 System requirements

- Network connected PC with Windows 2000 or XP
- Microsoft Internet Explorer 6.0 or later
- Router/Wireless access point

## 2.3 The package contains

- Network camera with aerial
- Power adaptor (5 V DC)
- Installation disc
- Instruction manual

## 3. Features

### 3.1 Front of camera

<b>Camera lens</b>	The camera lens can be adjusted. However make sure that it is free from dirt and dust to obtain the best image.
<b>Microphone</b>	The built-in microphone is located on the front of the camera. There is also a socket on the back of the camera for an extra microphone. When an external microphone is connected the internal microphone is disconnected.
<b>POWER</b>	LEDs illuminate when the camera is turned on. When the camera starts the LEDs flash for 15-20 seconds.
<b>ACTIVE</b>	When the LEDs flash, the camera image is transferred in real time to one or several users.
<b>NETWORK</b>	LEDs are lit when the camera is connected to a network. The LEDs flash when data is transmitted on the network.

### 3.2 Back of camera

<b>Power input</b>	Connection for the supplied power adaptor.
<b>MIC In</b>	Connection (3.5 mm) for external microphone (e.g. a regular pc microphone). The camera's built-in microphone is automatically disconnected when an external microphone is connected.
<b>LAN</b>	Use a standard network cable to connect the camera to your network switch or router. <b>N.B.</b> <ul style="list-style-type: none"> <li>• When a network cable is connected the wireless network (WLAN) is automatically disconnected.</li> <li>• The power adaptor must always be disconnected before you connect or disconnect the network cable for the camera to be able to change between LAN or WLAN.</li> </ul>
<b>RESET</b>	The reset button has two functions: <ul style="list-style-type: none"> <li>• A quick press restores the camera to a DHCP client (the camera obtains an IP address from e.g. a router. Any personal configured IP address is removed).</li> <li>• A long press (press and hold in for 3 seconds) restores the IP address, administrator's name and the administrator's password. The LED (Power) blinks three times when the camera is restored. <ul style="list-style-type: none"> <li>• <b>IP address:</b> DHCP</li> <li>• <b>Administrator's name:</b> administrator</li> <li>• <b>Administrator's password:</b> (no password)</li> </ul> </li> </ul>
<b>SPEAK</b>	Connection for speakers (3,5 mm).

## 4. Mounting & Installation

### 1. Mounting the aerial

Attach the supplied aerial to the bracket on top of the camera. The aerial can be angled for the best possible reception. The best reception is obtained with the aerial angled vertically.

### 2. Mounting the camera

Mount the camera on the included table stand. The table stand can also be ceiling or wall mounted.

### 3. Connecting the network cable

Use a standard network cable for the **LAN** connection to connect the camera to your network switch or router.

**N.B.** You must first connect the camera with the network lead in order to configure the camera for the wireless network. You can remove the network lead after configuration.

### 4. Switching on the camera

Connect the supplied power adaptor to the outlet marked **POWER**. The camera starts up automatically. Use only the included or recommended adaptor.

### 5. LED Indicators

- **POWER** - At start-up the indicator is lit for a short while before it begins flashing for 15-20 seconds. The indicator then remains lit.
- **ACTIVE** - Lights only when video is transmitted in real time to one or several users.
- **NETWORK** - Lights when the camera is connected to the network.

## 5. Basic Setup

### 5.1 Configuring the camera

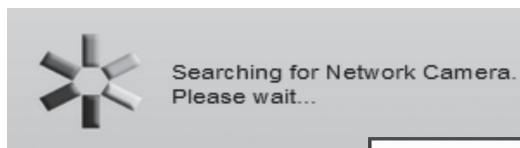
The camera must first be configured before using.

These installation instructions apply to Windows XP with Service pack 2 installed.

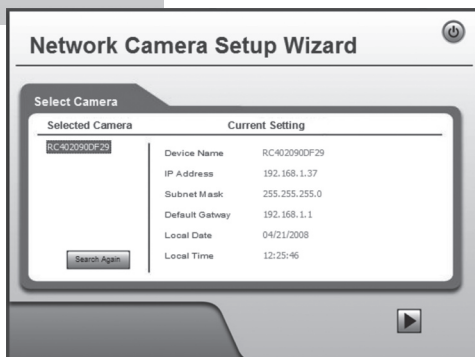
1. Connect the camera according to the instructions in section 4.
2. Insert the supplied CD into the computer's CD-ROM drive. If the installation does not start automatically, use the file **NetworkCamera.exe** application found directly under the root folder on the CD-ROM.
3. When the installation programme has started a welcome screen is displayed. Click on **Setup Camera** to start the installation.



4. The installation programme searches for the camera on the network and then displays the camera on the list to the left.



If there is more than one camera in the network, select the first camera on the list and click ►.

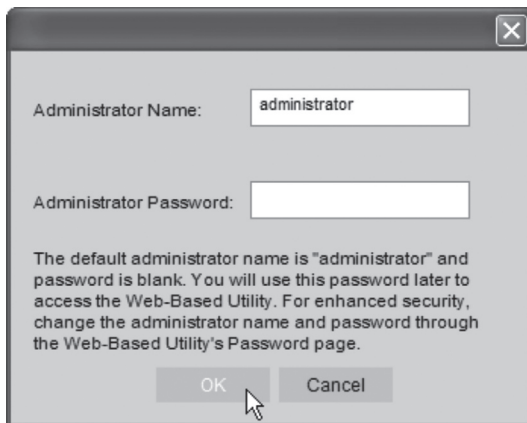


- On the next screen you will be prompted to enter a user name and password. Then click ►.

The preset username and password are:

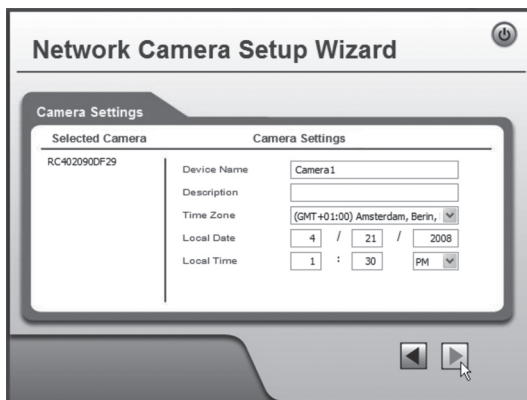
**User name:** administrator

**Password:** (no password)



A dialog box with a close button (X) in the top right corner. It contains two input fields: "Administrator Name:" with the text "administrator" and "Administrator Password:" which is empty. Below the fields is a paragraph of text: "The default administrator name is 'administrator' and password is blank. You will use this password later to access the Web-Based Utility. For enhanced security, change the administrator name and password through the Web-Based Utility's Password page." At the bottom are "OK" and "Cancel" buttons. A mouse cursor is pointing at the "OK" button.

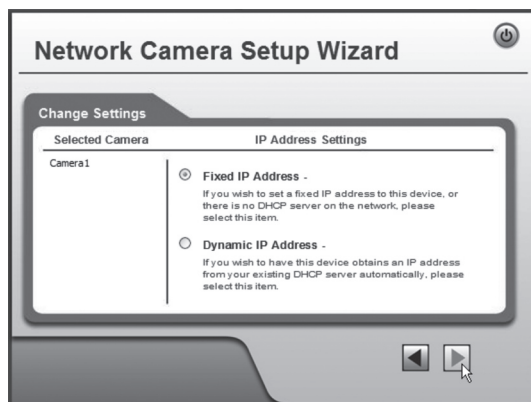
- In the following dialogue box you will set the time zone and date. You can also give a name and description for the camera. Enter your settings and click ►.



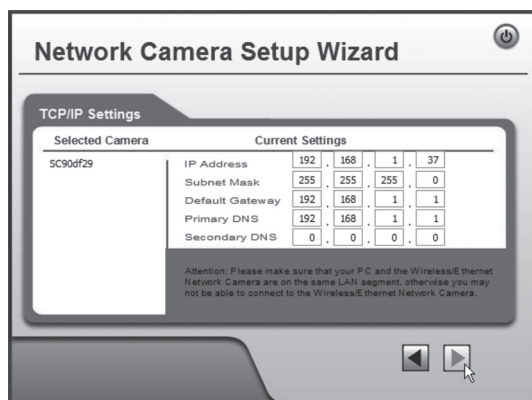
A "Network Camera Setup Wizard" dialog box with a power button icon in the top right. It has a "Camera Settings" tab. The "Selected Camera" field shows "RC402090DF29". The "Camera Settings" section includes: "Device Name" (Camera1), "Description" (empty), "Time Zone" (GMT+01:00 Amsterdam, Berlin), "Local Date" (4 / 21 / 2008), and "Local Time" (1 : 30 PM). At the bottom are left and right navigation arrows. A mouse cursor is pointing at the right arrow.



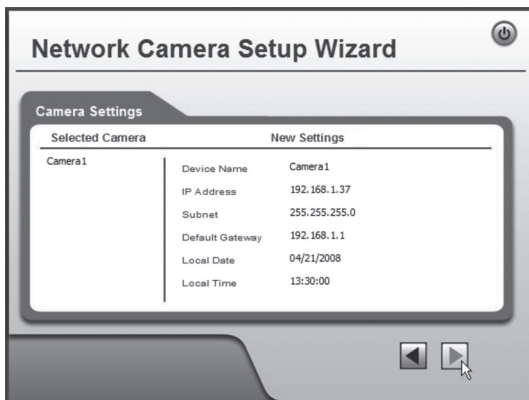
6. Select the camera to use a fixed IP address (**Fixed IP address**) or to automatically obtain an IP address (**Dynamic IP address**) from e.g. a router with DHCP function. Make your selection and click ►.



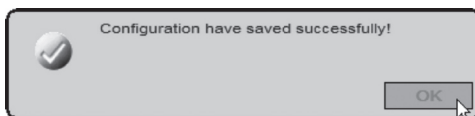
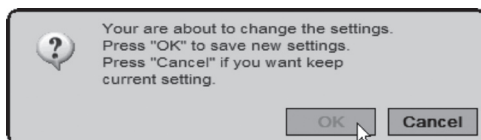
7. If you have previously chosen to give the camera a fixed IP address the **TCP/IP Settings** will appear in the dialogue box.
- Enter an available **IP address**, **Subnet Mask** and **Default Gateway** for your network.
  - Fill in a **Primary DNS** and a **Secondary DNS** if you wish to use the e-mail and DNS functions. Refer to the information provided by your Internet service provider.
  - Click ► next to continue.
- N.B.** Write down the IP address; you will need it later to configure the camera.



8. The following dialogue box shows the settings you have just entered. Click ►.



9. Click **OK** to save and then **OK** again.



10. Click **Exit** to complete the installation.



## 6. Show the camera image via the web browser

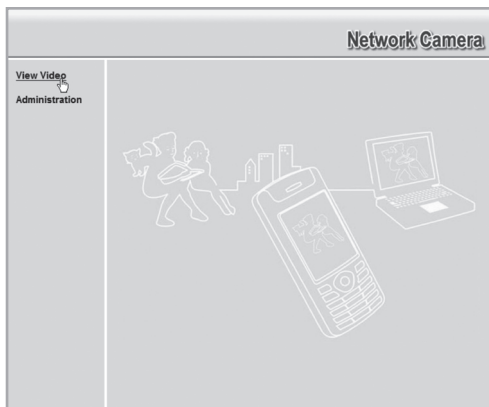
The camera shows video in real time via the camera's web interface.

Real time video can only be shown if the web browser is ActiveX 8.0 compatible (e.g. Internet Explorer 6.0).

1. Start the computer's web browser and enter the camera's IP address (in this case **http://192.168.1.37**) and press **Enter**.

**Tip!** Add this page to the web browser's favourites/bookmarks!

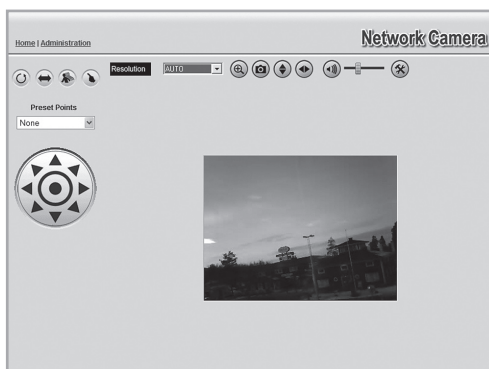
2. Click on **View Video**.



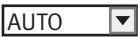








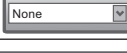

3. Check the picture quality and change the picture's properties with the controls on the screen.

### Obs!

- Real time video can only be shown if the web browser is ActiveX 8.0 – compatible (e.g. Internet Explorer 6.0).
- You must accept and install the Active X component when requested in the web browser window.



## Explanation of buttons and functions:

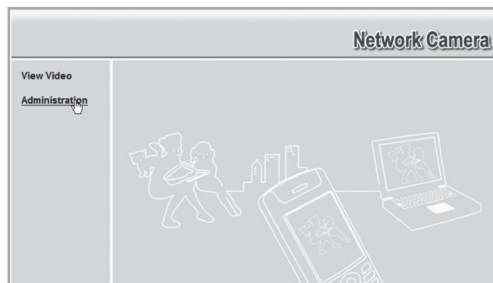
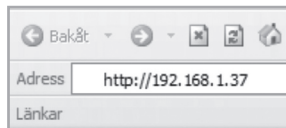
	Selects the camera resolution/picture size
	Zooms in
	Takes a snapshot
	Rotates the picture vertically
	Rotates the picture horizontally (mirror image)
	Turns on/off the microphone sound
	Adjusts the microphone's sound level
	Setup
	Controls the camera's position
	Preset positions
	Automatic switching/Automatic panning/Motion detector/ Quick panning

## 7. Configuration via the web browser

### 7.1 Opening the configuration interface

1. Start the computer's web browser and enter the camera's IP address (in this case **http://192.168.1.37**) and press **Enter**.

**Tip!** Add this page to the web browser's favourites/bookmarks!

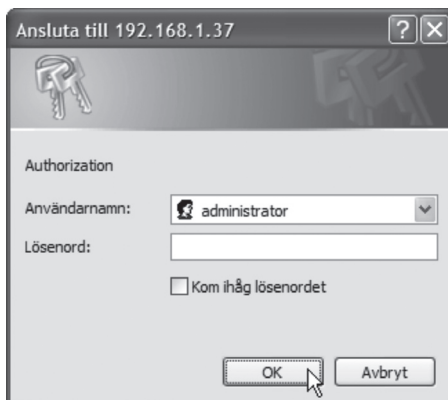


2. Click on **Administration** to access the control panel.

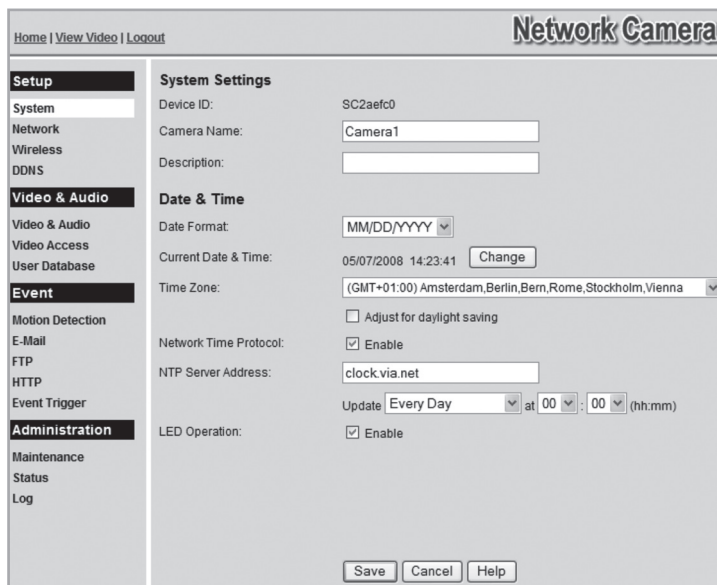
- In order to change the camera's settings the correct password must be entered. Log in with the preset username and password:

**User name:** administrator

**Password:** (no password)



- In the menu to the left, configuration interface options are shown.



- The configuration is divided into submenus which are described in the **7.2 Setup** section.
- Enter your desired settings and click on **Save** to save your settings. You can at any time click on **Help** to read the help section for each respective.

## 7.2 Setup

### 7.2.1 System

**System Settings**

Device ID: SC90df29

Camera Name:

Description:

**Date & Time**

Date Format:

Current Date & Time: 04/24/2008 07:52:21

Time Zone:

Adjust for daylight saving

Network Time Protocol:  Enable

NTP Server Address:

Update  at  :  (hh:mm)

LED Operation:  Enable

System Settings	
<b>Camera Name</b>	Enter a desired name for the camera.
<b>Description</b>	Enter a desired description for the camera.
Date & Time	
<b>Time Zone</b>	Choose time zone.
<b>Network Time Protocol</b>	Check to synchronize the clock against an Internet-time server.
<b>NTP Server Address</b>	Does not normally have to be changed (preset address: clock.via.net).
<b>Update</b>	Enter the interval for time synchronization.
<b>LED Operation</b>	Deselect to turn off the LEDs on the camera's front (for discrete surveillance).

## 7.2.2 Network

IP Address:  Obtain an IP address automatically (DHCP)  
 Use the following IP address

IP address:

Subnet mask:

Default gateway:

DNS Server Address:  Obtain DNS server address automatically  
 Use the following DNS server address

Primary DNS server:     (IP address)

Secondary DNS server:     (IP address)

Secondary Port  Enable HTTP Secondary Port  (1024-65535)

RTP/RTSP: RTSP Port:  (554,1024-65535)  
RTP Data Port:  (mobile phone only)  
Max RTP Data Packet:  bytes (400-1400)

Multicast RTP/RTSP:  Enable Multicast

Video Address:

Video Port:  (1024-65534, Even Value)

Audio Address:

Audio Port:  (1024-65534, Even Value)

Time to Live:  (1-255)

UPnP:  Enable Discovery  
 Enable Traversal (Port Mapping)

QoS:  Enable QoS Mode (for Video and Audio)

<b>IP Address</b>	Configures the camera's IP address.
<b>Obtain an IP address automatically (DHCP)</b>	Receive an IP address automatically from a DHCP server.
<b>Use the following IP address</b>	Give the camera its own IP address.
<b>DNS Server Address</b>	Enter desired DNS servers. Normally the router's DNS setting can be used, then type in the router's IP address here.
<b>Secondary Port</b>	Select to activate a secondary http port for access to the camera (if port 80 is used for another application). Enter desired port number.
<b>RTP/RTSP</b>	<b>RTSP (Real-time Streaming Protocol):</b> Indicates port for streaming of media over the Internet. <b>RTP (Real-time Transport Protocol):</b> Indicates port for streaming in real time of sound and picture over the Internet.
<b>Multicast RTP/RTSP</b>	Select to activate Multicast. Enter address and port number for video and sound.
<b>UPnP</b>	Select to activate UPnP.
<b>QoS</b>	Activates QoS.

### 7.2.3 Wireless

Configures the camera for use in a wireless network. Select network type, SSID (name of network) and the network's security settings. Enter the same information you gave for other wireless devices which also communicate on the wireless network. Contact the network administrator for assistance if you do not own the network yourself.

#### Connect the camera to a wireless network

1. Connect and configure the camera according to section 4 & 5.
2. Go to the **Wireless** menu and enter the settings for your wireless network. Select **Save** in order to save your settings and then close your browser.
3. Detach the network cable and restart the camera by disconnecting it from, and then reconnecting to the adaptor.

Wireless Network	
WSC PIN Code:	28138884
Network Type:	Infrastructure
SSID:	<input type="text"/>
Domain:	Europe
Channel No:	Auto
Security	
Security System:	WPA/WPA2 Personal
Shared Key:	<input type="text"/> (8 to 63 characters)

If you are satisfied with the settings, connect the camera to network after it has been restarted.

Wireless Network	
<b>Network Type</b>	Select the type of wireless network you will be connecting the camera to. <b>Infrastructure</b> – If you are connecting to a wireless router/access point. <b>Ad-hoc</b> – Peer to peer network.
<b>SSID</b>	Enter the network's SSID (network name). The name must correspond to the network's SSID.
<b>Domain</b>	Select your region from the drop-down list.
<b>Channel No</b>	<b>Auto</b> – Chooses a channel automatically (selected automatically when connecting to a router/access point). <b>1-13</b> – Only used when connecting to an <b>Ad-Hoc</b> network. Select the same channel as the other wireless stations which the camera connects to.
Security	
<b>Security System</b>	Use the same security settings as the wireless network you will be connecting to. <b>Disabled</b> – No security is in use, the wireless network is available for all connections. <b>WEP</b> – Select the network you wish to be protected by WEP. <b>WPA/WPA2 Personal</b> – Choose the wireless network you wish to be protect by a WPA key.



## 7.2.3 DDNS

Enable DDNS

Service Provider:

Domain (Host) Name:

Account/E-Mail:

Password/Key:

Check WAN IP Address:

Starting at  Hour(s)  Minute(s)

If you are provided with a dynamic IP address from your Internet provider instead of a permanent IP address you may with help of a dynamic DNS server connect a domain name to your external IP address.

The camera automatically contacts and updates the DNS server with the new IP address if your Internet connection is given a new IP address. The dynamic domain name always updated to your IP address in that way.

An example of Dynamic DNS sever is dyndns.org where you can register for free for a dynamic domain name.

### N.B.

If your router has its own function for dynamic dns it can be used instead of the camera's ddns service.

<b>Enable DDNS</b>	Select to activate the feature.
<b>Service Provider</b>	Choose in the list the dynamic dns server you are using.
<b>Web Site</b>	Click to open the website for chosen dns server.
<b>Domain (Host) Name</b>	Type in your dynamic domain name.
<b>Account/E-Mail</b>	Username/login name for the account.
<b>Password/Key</b>	Password for the account.
<b>Check WAN IP Address</b>	Enter how often the camera should search for changed IP address.

## 7.3.2 Video Access

User Access:  Enable Security Checking

Video Access:  Enable Scheduled Video Access

**Access Schedule**

**Add New Schedule**

Day:

Start Time:  :  (hh:mm)

End Time:  :  (hh:mm)

<b>User Access</b>	Protects access to the camera. The users must enter a username and password to access to the camera. Add the users in the <b>User Database</b> menu.
<b>Video Access</b>	Activate scheduled access to the camera. Access to the camera is only given during specified times. <b>NB:</b> Regardless of setting the administrator always has access to the camera.
<b>Access Schedule</b>	
<b>Delete</b>	Removes marked schedules from the list.
<b>Add New Schedule</b>	
<b>Day</b>	Choose desired days to be scheduled.
<b>Start Time</b>	Enter a start time.
<b>End Time</b>	Enter a stop time.
<b>Add</b>	Adds a schedule to the list.

### 7.3.3 User Database

**Existing Users**

**User Properties**

User Name:

User Password:

Confirm Password:

<b>Existing Users</b>	
<b>Edit</b>	Edits users.
<b>Delete</b>	Removes users.
<b>Delete All</b>	Removes all users.
<b>User Properties</b>	
<b>User Name</b>	Type in desired username.
<b>User Password</b>	Password for the user.
<b>Confirm Password</b>	Confirm the password one more time.
<b>Add</b>	Adds the user to the user database.

## 7.3 Video & Audio

### 7.3.1 Video & Audio

MPEG-4 Settings	
<b>Resolution</b>	The camera's picture resolution.
<b>Video Quality Control</b>	<b>Constant Bit Rate:</b> Choose desired Bit Rate. <b>Fixed Quality:</b> Choose picture quality.
<b>Max Frame Rate</b>	Choose frames per second.
MJPEG Settings	
<b>Resolution</b>	The camera's picture resolution.
<b>Fixed Video Quality</b>	Choose picture quality.
<b>Max Frame Rate</b>	Choose frames per second.
Mobile Settings	
<b>Enable Mobile Streaming</b>	See section <b>8.2 Streaming to the mobile phone.</b>
Video Adjustments	
<b>Power Line Frequency</b>	Choose the frequency that corresponds with the power supply's frequency (with fluorescent tube lighting).
<b>White Balance</b>	Indicates the white balance.
<b>Lighting Condition</b>	Lighting conditions.
<b>Brightness</b>	Light intensity.
<b>Sharpness</b>	Sharpness.
Options	
<b>Enable Microphone</b>	See section <b>9.4 Using the microphone and speakers.</b>
<b>Enable Speaker</b>	
<b>Flip</b>	Turns the picture upside down.
<b>Mirror</b>	Mirrors the picture.
<b>Enable Time Stamp</b>	Adds current time to the picture.
<b>Enable Text Display</b>	For (camera) identification when several cameras are being used. Type in desired text to be displayed in the picture (up to 20 characters).

**MPEG-4 Settings**

Resolution: 640\*480

Video Quality Control:  
 Constant Bit Rate 256 Kb ps  
 Fixed Quality Very High

Max Frame Rate: 30 fps

**MJPEG Settings**

Resolution: 640\*480

Fixed Video Quality: Very High

Max Frame Rate: 30 fps

**Mobile Settings**

Enable Mobile Streaming

Resolution: 160\*120

Video Quality Control:  
 Constant Bit Rate 32 Kb ps  
 Fixed Quality Normal

Max Frame Rate: 15 fps

Access Code: 1234

**Video Adjustments**

Power Line Frequency: 60Hz (for fluorescent lighting)

White Balance: Auto

Lighting Condition: High Frame

Brightness: Normal

Sharpness: Normal

**Options**

Enable Microphone Audio Type: G.726

Enable Speaker

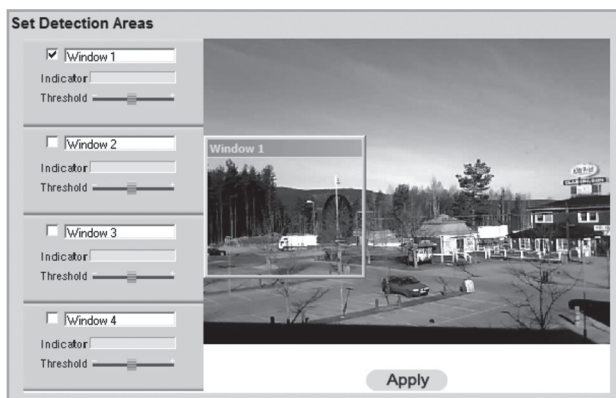
Flip  Mirror

Enable Time Stamp

Enable Text Display

## 7.4 Event

### 7.4.1 Motion Detection



See the section 8.3 Motion Detection.

### 7.4.2 E-mail

**Primary SMTP Server**

SMTP Server Address:  Port:

Authentication:

SMTP Login name:

SMTP Password:

POP server name:

Show "From" as:  (E-Mail Address)

**Secondary SMTP Server**

Secondary SMTP (enable this if the camera can not connect to the primary SMTP)

SMTP Server Address:  Port:

Authentication:

SMTP Login name:

SMTP Password:

POP server name:

Show "From" as:  (E-Mail Address)

**E-Mail Setup**

E-Mail Address #1:

E-Mail Address #2:

E-Mail Address #3:

Subject:

E-mail settings for sending images as an attached file to one or several e-mail addresses.

- See the settings for e-mail that you received from your Internet provider.

<b>Primary SMTP Server</b>	
<b>SMTP Server Address</b>	Enter the SMTP-address which is used to send e-mail.*
<b>Authentication</b>	Indicates if the SMTP-server requires authorization.
<b>SMTP Login Name</b>	Username (only at authorization).
<b>SMTP Password</b>	Password (only at authorization)
<b>POP server name</b>	Only at authorization.
<b>Show "From" as</b>	Type in the e-mail address which is shown in the "from" field when the e-mail reaches the receiver.
<b>Secondary SMTP Server</b>	
Enter settings for a secondary SMTP-server if the primary SMTP-server cannot be reached.	
<b>E-mail Setup</b>	
<b>E-mail Address</b>	Enter at least one e-mail address to send an image to.
<b>Subject</b>	Indicate a subject for the e-mail.

\* Some Internet providers require that a special SMTP-server is used if you have your own e-mail server or if you are using e-mail from an external provider. Contact your Internet provider.

### 7.4.3 FTP

Settings for automatic uploading of images to an FTP-server.

<b>Primary FTP</b>	
FTP Server:	<input type="text"/> Port: <input type="text" value="21"/>
Login Name:	<input type="text"/>
Password:	<input type="text"/>
<input type="checkbox"/> Enable Passive Mode	
File Path Name:	<input type="text"/>
<b>Secondary FTP</b>	
<input type="checkbox"/> Secondary FTP (enable this if the camera can not connect to the primary FTP)	
FTP Server:	<input type="text"/> Port: <input type="text" value="21"/>
Login Name:	<input type="text"/>
Password:	<input type="text"/>
<input type="checkbox"/> Enable Passive Mode	
File Path Name:	<input type="text"/>

Primary FTP	
<b>FTP Server</b>	The FTP-server's address.
<b>Port</b>	The FTP-server's port number (usually 21).
<b>Login Name</b>	Username.
<b>Password</b>	Password.
<b>Enable Passive Mode</b>	Select to activate passive mode.
<b>File Path Name</b>	Indicates to which catalogue the picture file will be saved.
Secondary FTP	
Enter settings for a secondary FTP-server if the primary FTP-server cannot be reached.	

<b>HTTP Notification</b>	<input type="checkbox"/> Enable
URL:	<input type="text"/>
Proxy Server Name:	<input type="text"/>
Port Number:	<input type="text" value="80"/>
Method:	<input type="text" value="POST"/>

### 7.4.4 HTTP

Settings for HTTP notification.

HTTP Notification	
<b>Enable</b>	Select to activate the feature.
<b>URL</b>	Enter the server's URL.
<b>Proxy Server Name</b>	Possible proxy server for indirect connection.
<b>Port Number</b>	Enter the proxy server's port number.
<b>Method</b>	Choose method for http notification. GET or POST.

## 7.4.5 Event Trigger

Sets schedule for trigger events and method of notification, via e-mail, FTP, or HTTP.

**Event Schedule**

**New Schedule**

Effective Time Frame:

Start Time:  :  (hh:mm)

End Time:  :  (hh:mm)

**Trigger Event**

Motion Detection

Interval:  Minute(s) before detecting the next event.

Action(s):  E-Mail  FTP  HTTP

Event Schedule	
Displays created event schedules.	
New Schedule	
<b>Effective Time Frame</b>	Indicates which days the schedule will be valid for.
<b>Day</b>	Choose desired schedule days.
<b>Start Time</b>	Enter a start time.
<b>End Time</b>	Enter a stop time.
<b>Add</b>	Adds a schedule to the list.
Trigger Event	
<b>Motion Detection</b>	Select to activate motion detection. Detection of movement.
<b>Actions</b>	Select method of notification: E-Mail, FTP or HTTP.
<b>Attachement Type</b>	Choose type of attached file: JPEG picture or video.



## 7.5 Administration

### 7.5.1 Maintenance

General settings for password administration, software upgrades, backups and resetting.

The screenshot shows a web-based administration interface with three main sections:

- Administrator Login:** Contains fields for Administrator ID (pre-filled with 'administrator'), Administrator Password, and Verify Password. Below these fields are 'Save' and 'Cancel' buttons.
- Firmware Upgrade:** Contains an 'Upgrade File' field with a 'Browse...' button. Below it are 'Start' and 'Clear File Name' buttons.
- Backup & Restore:** Contains a 'Backup Configuration File' field with a 'Backup' button. Below it is a 'Restore Configuration File' field with a 'Browse...' button, and 'Restore' and 'Clear File Name' buttons. At the bottom, there are 'Restore Factory Defaults' (with a 'Defaults' button) and 'Restart Camera' (with a 'Restart' button).

Administrator Login	
<b>Administrator ID</b>	Changes the preset administrator name (preset username: <i>administrator</i> ) which is used at login.
<b>Administrator Password</b>	Indicates a password for administrator login.
<b>Verify Password</b>	Verify the password by retyping it.
Firmware Upgrade	
<b>Upgrade File</b>	Click on <b>Browse</b> to choose an upgrade file for upgrading the camera's software.
<b>Start</b>	Click on <b>Start</b> to start the upgrading. The camera restarts when the upgrading is done.
<b>Clear File Name</b>	Clears the Upgrade File field.

Backup & Restore	
<b>Backup</b>	Click on <b>Backup</b> to save the camera's current configuration to a text file.
<b>Restore Configuration File</b>	Click on <b>Restore</b> to resume the configuration file.
<b>Restore Factory Defaults</b>	Resets the camera to factory settings.
<b>Restart Camera</b>	Push to restart the camera.

### 7.5.2 Status

Displays the camera's software version and the camera's network and video settings.

<b>System</b>	
Device Name:	Camera1
Description:	
FW version:	V1.0.04
<b>Network</b>	
MAC Address:	00:c0:02:90:df:29
IP Address:	192.168.1.37
Network Mask:	255.255.255.0
Gateway:	192.168.1.1
<b>MPEG-4</b>	
Resolution:	640*480
Video Quality:	Very High
Frame Rate:	30
<b>MJPEG</b>	
Resolution:	640*480
Video Quality:	Very High
Frame Rate:	30

### 7.5.3 Log

Displays the camera's log file for settings and events.

04/28/2008 09:06:10 LOG: Clear all messages

Enable Syslog Service

Syslog Server Address

## 8. Advanced use

### 8.1 Connecting the camera via the Internet

If the camera is installed on the network behind e.g. a router, the router must be configured in order for the camera to be reached from the Internet.

#### 8.1.1 Prepare your router/firewall

- If you are using e.g. a router or a firewall in your network it is necessary that the camera's ports are opened in the router/the firewall and is directed to the camera's internal IP address. See the router's/firewall's instruction manual for help.
- Preset port number to connect the camera is: **80**.

If you want to connect with a different port number a secondary port number is entered in the **Setup > Network** menu.

Secondary Port:	<input checked="" type="checkbox"/> Enable HTTP Secondary Port	<input type="text" value="1024"/>	(1024-65535)
-----------------	--	-----------------------------------	--------------

- You also have to find the IP address for your Internet connection. A simple way of doing this is to enter "What's My IP" as search word in a search engine for links that show your external IP address.

#### 8.1.2 Connect to the camera

1. Start the computer's web browser and type in the Internet connection's IP address (<http://xxx.xxx.xx.xx>) and press **Enter**.

##### **N.B.**

This can usually not be done from a computer on the same network as the camera. Use a computer on another network or another Internet connection to connect the camera (from the internal network you would instead connect to the camera's internal IP address).

2. Click on **View Video** to show the camera image or choose **Administration** to configure the camera.

## 8.2 Streaming to a mobile phone

The camera picture can be streamed to most 3G mobile phones that support video streaming via the RTSP protocol.

### 8.2.1 Prepare the camera for streaming to a 3G mobile phone

**Mobile Settings**

Enable Mobile Streaming

Resolution: **160\*120**

Video Quality Control:

Constant Bit Rate

Fixed Quality

Max Frame Rate:  fps

Access Code:

1. Select the option **Enable Mobile Streaming** in the **Video and Audio** menu.
2. Choose video quality (Constant Bit Rate) and picture frequency (Max Frame Rate).
3. Enter any code of choice for the camera (Access Code), but in this case **1234**. This code will then be entered at the end of the web address you indicate in your mobile phone.
4. Click **Save** to save your settings.

#### NB:

- If you are using e.g. a router or a firewall in your network it is necessary that the camera's ports are opened in the router/firewall and is directed to the camera's internal IP address. See the router's/firewall's instruction manual for help.
- The preset port numbers for video streaming can be changed in the camera's network settings in the menu **Setup > Network**:

RTP/RTSP:	RTSP Port:	<input type="text" value="554"/>	(554,1024-65535)
	RTP Data Port:	<input type="text" value="5000"/>	(mobile phone only)
	Max RTP Data Packet:	<input type="text" value="1400"/>	bytes (400-1400)

#### Preset ports in the camera:

RTSP: 554 (TCP)  
RTP: 5000 (UDP)

You also have to find the IP address for your Internet connection. A simple way of doing that is to enter "What's My IP" as search word in a search engine for links that show your external IP address.

### 8.2.2 Connecting to the camera with a 3G mobile phone

1. In the mobile phone's web browser enter **rtsp://** followed by the camera's/router's external IP address followed by the access code.

Example: **rtsp://XXX.XXX.XXX.XXX/1234** where X stands for the camera's external IP address and **1234** is the access code.

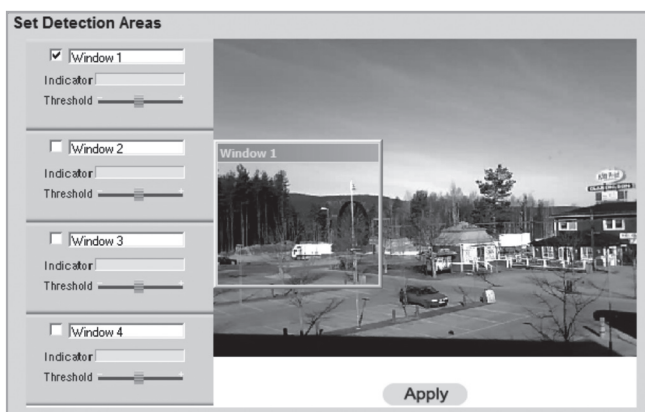
2. If the camera and the router/firewall are correctly configured the camera picture will be displayed in the mobile phone.

#### Important!

The mobile phone must support the RTSP protocol to be able to receive the camera's video streaming. Follow the mobile phone's instruction manual.

Your mobile phone plan must also be activated for data traffic via the 3G net.

## 8.3 Motion detection



**NB:** Motion detection can besides detectin moving objects also react to quick light changes. It is therefore recommended that the feature is only used on cameras used indoors.

1. Select the box for one or several areas (**Window 1-4**). **Up to four detection areas can be defined for detection of movement.**
2. **Use the cursor to** move each detection area to the area or areas the motion detector should react to.
3. Adjust the (**Threshold**) for the detection.
4. Click on **Apply** to confirm your settings.
5. Follow section **7.4.2 E-mail** to set one or several e-mail addresses to send the picture to.
6. Activate **Motion Detection**, type of event (e-mail, FTP, or http) and type of attached file in the menu **Event Trigger** (see section 7.4.5).

## 9. Monitor Manager

With the included programme **Monitor Manager** several other cameras can be monitored simultaneously.

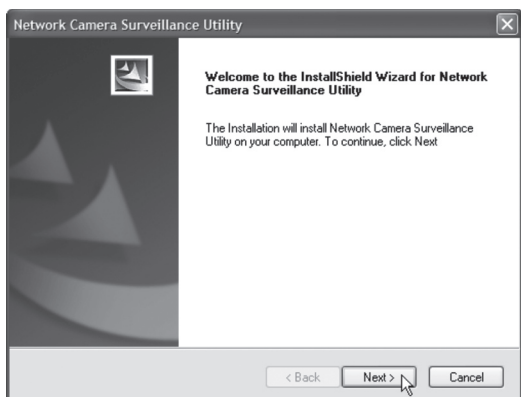
### 9.1 Installation

The installation guidelines applies to Windows XP with Service pack 2 installed.

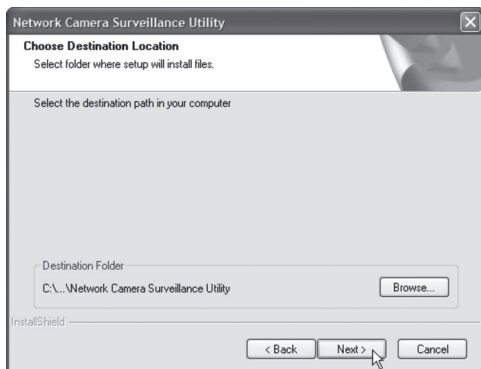
1. Connect the camera according to the instructions in section 4.
2. Insert the supplied CD into the computer's CD-ROM drive. If the installation does not start automatically, use the file **NetworkCamera.exe** application found directly under the root folder on the CD-ROM.
3. When the installation programme has started a welcome screen is displayed. Click on **Install Utility** to begin the installation.



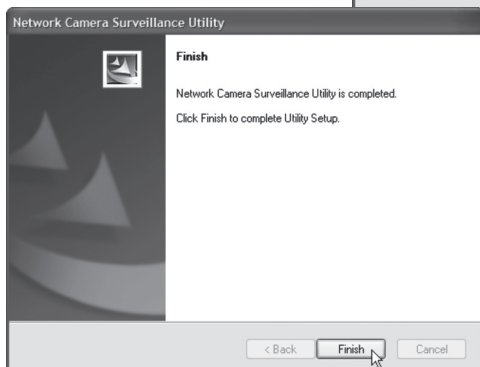
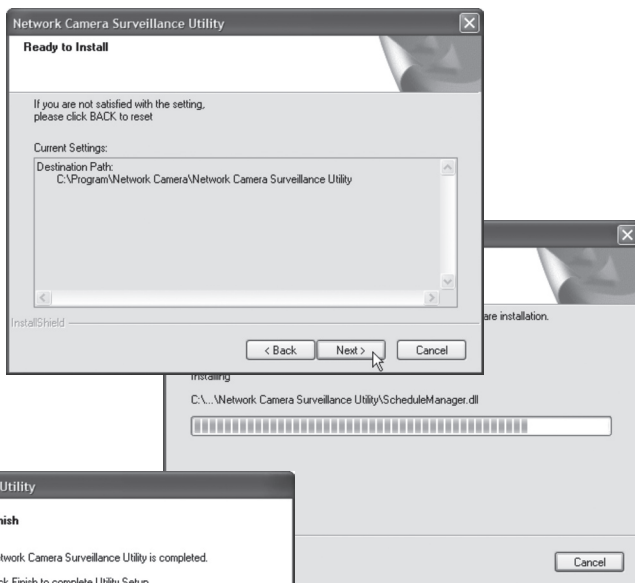
4. Click on **Next** to continue.



- Click on **Browse** if you wish to install the programme in another folder than the one suggested, otherwise click **Next**.



- Click **Next** to confirm.




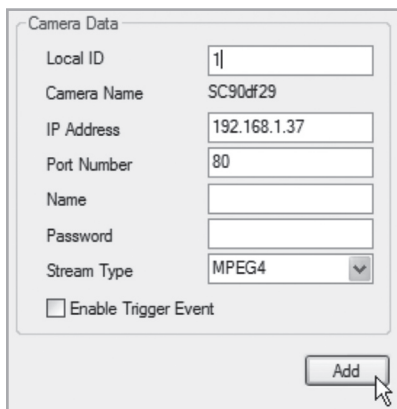
- Click **Finish** to complete the installation. The programme will start automatically.

## 9.2 Use Monitor Manager

### 9.2.1 Connect to the camera and display the camera picture

To display the camera in the programme it must first be connected and given its own channel number.

1. Install and start the programme according to the instruction in step 7.1.
2. Click on  to change the programme's properties and search for the camera on the network.
3. Select **Lan** (the camera should be listed) and click on **Refresh** to search for connected cameras.
4. Select the camera on the list.
5. Give the camera a channel number (in this case **1**) and click on **Add** to add the camera in the list.



Camera Data

Local ID: 1

Camera Name: SC90df29

IP Address: 192.168.1.37

Port Number: 80

Name:

Password:

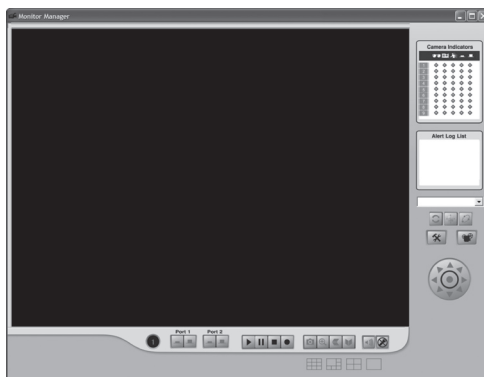
Stream Type: MPEG4

Enable Trigger Event

Add














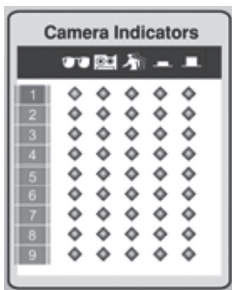
6. Click **Exit** to close down the dialogue box.
7. Press ► to start the playback. The camera picture should now be displayed in the programme.





## Explanation of the programme's controls and features

Button		Function
	<b>Channel</b>	Displays the chosen camera's channel number.
	<b>Play</b>	Starts playback for the chosen camera.
	<b>Pause</b>	Freezes the picture.
	<b>Stop</b>	Stops playback.
	<b>Record</b>	Push to record current picture. While recording the button changes colour to red.
	<b>Snapshot</b>	Push to take a snapshot of the camera picture.
	<b>Zoom</b>	Click on the icon and then click in the area of the picture that you want to enlarge.
	<b>Flip</b>	Rotates the picture horizontally.
	<b>Mirror</b>	Mirrors the picture.
	<b>Sound On/Off</b>	Turns the sound on or off (can only be chosen when the function is activated according to section 9.4).
	<b>Microphone On/Off</b>	Turns the microphone on or off (can only be chosen when the function is activated according to section 9.4).



**Camera Indicators**







Used to quickly choose between connected cameras. Also displays status for chosen camera.

- Column 1** Green indicator is displayed when the camera is available.
- Column 2** Red indicator indicates when recording is in session.
- Column 3** Yellow indicator is displayed when the motion detector is activated.
- Column 4 and 5** Indicates I/O-status.



**Alert Log List**

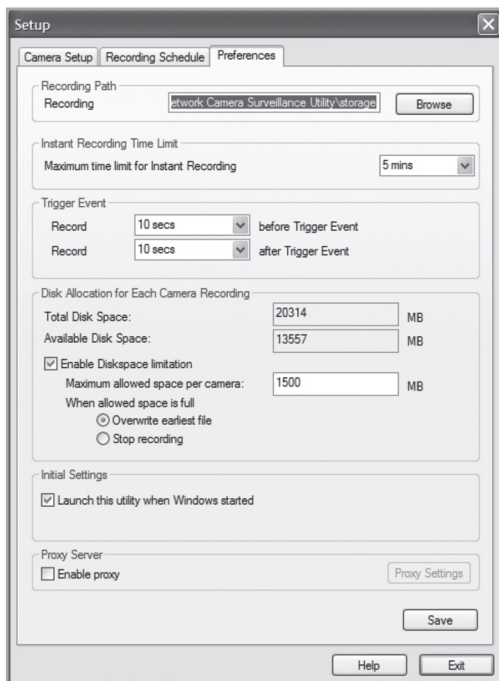
Shows history of possible alarms during motion detection.


	<p><b>Setup</b></p>	<ul style="list-style-type: none"> <li>- Searches and connects network connected cameras.</li> <li>- Sets scheduled recordings.</li> <li>- Changes recording properties.</li> </ul>
	<p><b>Playback</b></p>	<p>Opens the programme for playback of recorded sequences. Refer to the <b>7.4 Playback</b> section.</p>
	<p><b>One Video Layout</b></p>	<p>Displays the selected camera only.</p>
	<p><b>Four Video Layout</b></p>	<ul style="list-style-type: none"> <li>- Displays up to four cameras simultaneously (if more than one camera is connected).</li> <li>- Use "drag and drop" to move the image to the desired screen section.</li> </ul>
	<p><b>Six Video Layout</b></p>	<ul style="list-style-type: none"> <li>- Displays up to six cameras simultaneously (if more than one camera is connected).</li> <li>- Use "drag and drop" to move the image to the desired screen section.</li> </ul>
	<p><b>Nine Video Layout</b></p>	<ul style="list-style-type: none"> <li>- Displays up to nine cameras simultaneously (if more than one camera is connected).</li> <li>- Use "drag and drop" to move the image to the desired screen section.</li> </ul>

## 9.3 Recording playback

Recording can be done simultaneously with playback, or according to a recording schedule.

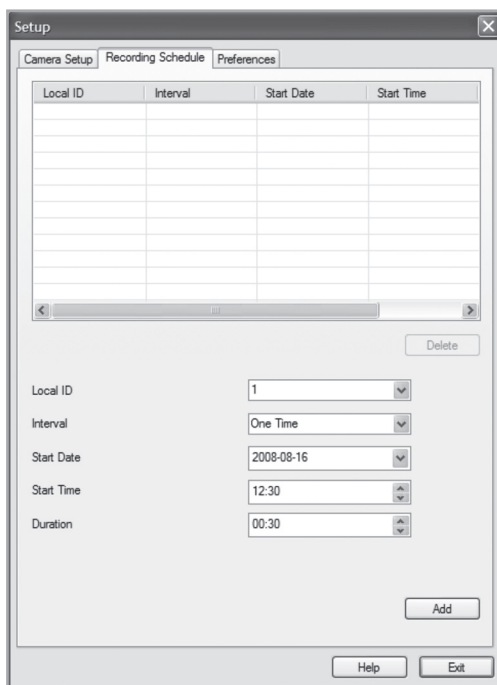
### 9.3.1 Preparing the computer for recording




1. Click on **Setup**  to change the programme's settings.
2. Select the **Preferences** tab and enter the desired settings:
  - **Recording Path** – Choose a folder where the recordings will be stored.
  - **Instant Recording Time Limit** – Enter a max. time limit for recording.
  - **Trigger Event**
    - **before Trigger Event** – Enter a time a recording should start before motion is detected. The programme can save up to 30 seconds of recording in memory before a trigger event.
    - **after Trigger Event** – Set a time for recording after motion is detected.

- **Disc Allocation** for Each Camera Recording – Displays the amount of disk space allocated to each camera.
  - **Initial Setting** – Select if you wish the programme to start when starting Windows.
  - **Proxy Server** – Enter proxy settings when using a proxy server.
3. Click on **Save** to save your settings and **Exit** to return to Monitor Manager.

### 9.3.2 Scheduling recording



1. Click on **Setup**  to change the programme's settings.
2. Select the **Recording Schedule** tab to create a recording schedule. Enter desired settings for the following:
  - **Local ID** – Select the camera to record.
  - **Interval** – Select the interval for recording.
  - **Start Date** – Start date for recording.
  - **Start Time** – Start time for recording.
  - **Duration** – Select length of recording (up to 24 hours).

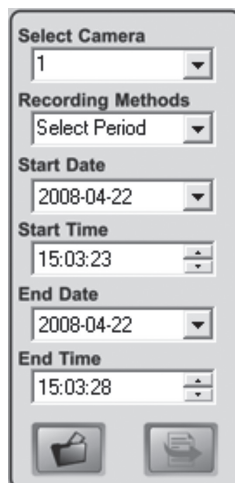
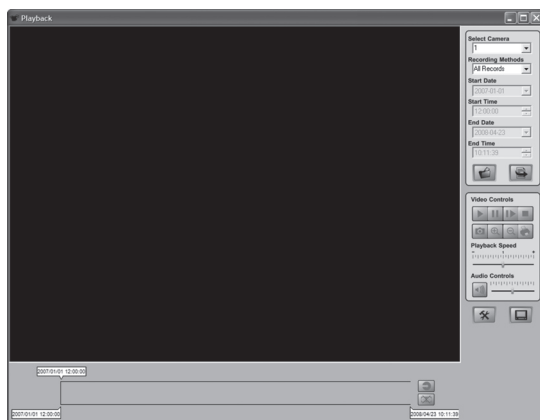
- Click **Add** to save the newly created schedule on the recording schedule list.  
The programme will now automatically start recording according to the programmed schedule.
- Repeat steps 2-3 if you wish to add more recording schedules.

**N.B.**

In order for the recording schedule to function the **Recorder** programme must be started. The **Recorder** programme starts automatically when the Monitor Manager programme starts, and continues to be active even when Manager becomes inactive.

### 9.3.3 Playing back recorded files

- Click on  to open the video player.



#### Explanation of control functions:

<b>Select Camera</b>	Select a desired camera number.
<b>Recording Methods</b>	Select the type of recording to be viewed.
<b>Start Date/Time</b>	Enter the date and time you want to begin showing the recording.
<b>End Date/Time</b>	Enter the date and time you wish to end the showing of the recording.
<b>Load other Cameras</b>	Load additional cameras from the network.
<b>Submit</b>	Start playback according to the above settings.

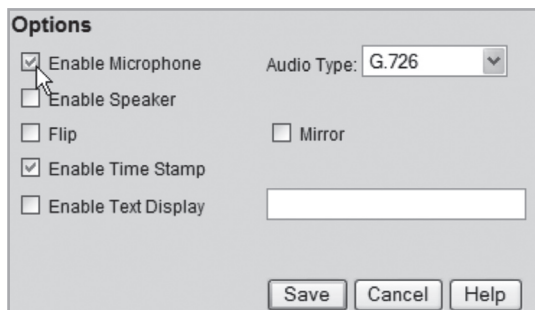
<b>Play</b>	Resumes playback after stopping or pausing
<b>Pause</b>	Temporarily stops/freezes playback
<b>Frame by Frame</b>	Each mouse click progress video sequences frame by frame
<b>Stop</b>	Stops playback
<b>Snapshot</b>	Takes a snapshot from the video sequence
<b>Zoom In</b>	Enlarges the image
<b>Zoom Out</b>	Reduces the image
<b>Print</b>	Prints out the current image
<b>Playback Speed</b>	Regulates playback speed
<b>Audio Controls</b>	Volume control
<b>Setup</b>	Changes programme settings
<b>Monitor</b>	Opens the Monitor Manager programme
<b>Convert</b>	Converts selected video sequence to AVI-format
<b>Delete</b>	Erases selected video sequence



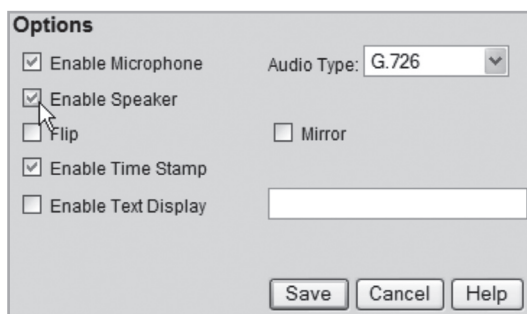
## 9.4 Using the microphone and speakers

The camera is equipped with a built-in microphone for audio monitoring. Audio is played back on the computer at the monitoring location.

### 9.4.1 Activates the camera's microphone



1. Select the **Enable Microphone** alternative in the **Video & Audio** menu.
2. Click on **Save** to save your settings.
3. Click on **View Video** to display the camera image. Audio from the camera's microphone is played on the computer's speakers.



### 9.4.2 Activating the camera's speaker output

1. Connect the speaker (e.g. a computer speaker) to the outlet marked **SPKR Out** (3.5 mm mono) at the back of the camera.
2. Connect a computer microphone to the computer's mic. outlet.
3. Select the **Enable Speaker** alternative in the **Video & Audio** menu.
4. Click on **Save** to save your settings.
5. Click on **View Video** to display the camera image. Audio from the microphone should now be heard from the speaker.

## 10. Care and Maintenance

Use a soft moist cloth to clean the product.  
Never use strong detergents or solvents for cleaning.

## 11. Troubleshooting

**It is not possible to connect to the camera/the programme does not have any contact with the camera**

- Make sure that your computer's firewall is not blocking the camera's connection to the network. Turn off or reconfigure your firewall.
- Make sure that the IP address you have given to the camera corresponds to the network's series of IP addresses. Connect the camera and run the configuration programme again.
- Make sure that the network cable you are using is undamaged and of the same type that was included with the camera.
- Shortly disconnect the camera from the power source, reconnect and try again.
- Try to restart the camera by pressing the reset button on the camera's underside.

**There is no connection between the camera and the wireless network**

- Connect the camera with network cable and check the settings for your wireless network.
- Make sure that you have given the right security settings for your wireless network. Contact the network administrator for assistance if you do not own the network yourself.
- Try to connect another wireless device in order to make sure that your connection settings are proper and that the wireless network is functioning.

## 12. Disposal

When it is time to dispose of the product, dispose of it according to your local ordinances. If you are unsure please contact your municipality.

## 13. Specifications

Power supply	5 V DC, 2 A (via included adaptor)
Network	LAN/WLAN with support for TCP/IP, SMTP, SHCP, HTTP, DDNS 802.11b/g (WPA2-PSK, WEP, 64/128 bits security)
Network connection	Ethernet 10/100BaseT (RJ45)
Lens	F4.6 mm @ F1.89 Fixed Focus
Max. resolution	640 x 480 (VGA)
Dimensions	90 x 35 x 90 mm (W x H x L)
Operating temperature	0 °C to 40 °C
Storage temperature	0 °C to 40 °C



## Declaration of Conformity



Hereby, Clas Ohlson AB declares that following product(s):

**Wireless IP-CAMERA**  
**36-2914/18-2062**  
**RC8030/RC8030-UK**

is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC.

<b>Article 3.1a (Safety):</b>	<b>EN 60950-1</b> <b>EN 50385</b>
<b>Article 3.1b (EMC):</b>	<b>EN 301489-1</b> <b>EN 301489-17</b>
<b>Article 3.2 (Radio):</b>	<b>EN 300328</b>



Insjön, Sweden, June 2008

A handwritten signature in black ink, appearing to read 'Klas Balkow', with a long horizontal flourish extending to the right.

Klas Balkow  
President

Clas Ohlson, 793 85 Insjön, Sweden

This product's intended usage is within the countries of Sweden, Norway, Finland and United Kingdom.





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