



MANUAL

EM4484 – Wireless Internet Camera

WWW.EMINENT-ONLINE.COM

EM4484 – Wireless Internet Camera



Warnings and points of attention

Due to laws, directives and regulations set out by the European Parliament, this device could be subject to limitations concerning its use in certain European member states. In certain European member states the use of this product could be prohibited. More information regarding this warning can be found in the Declaration of Conformity on the last page of this document!

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1.0 Warranty conditions

The five-year Eminent warranty applies to all Eminent products unless mentioned otherwise before or during the moment of purchase. When having bought a second-hand Eminent product the remaining period of warranty is measured from the moment of purchase by the product's first owner.

The Eminent warranty applies to all Eminent products and parts inextricably connected to and/or mounted on the main product. Power supply adapters, batteries, antennas and all other products not integrated in or directly connected to the main product and/or products of which, without reasonable doubt, can be assumed that wear and tear show a different pattern than the main product are not covered by the Eminent warranty. Products are not covered by the Eminent warranty when subjected to incorrect/improper use, external influences and/or when opened by parties other than Eminent.

2.0 Introduction

Congratulations with the purchase of this high-quality Eminent product! This product has undergone extensive testing by Eminent's technical experts. Should you experience any problems with this product, you are covered by a five-year Eminent warranty. Please keep this manual and the receipt in a safe place.

Register your product now on www.eminent-online.com and receive product updates!

2.1 Functions and features

This wireless internet camera is extremely suited for remotely observing all sorts of spaces, such as a reception or storages. Of course, the camera is also ideal for observing a baby room or a living room. If connected to a router, you are able to observe your spaces from any place, anywhere using a web browser.

2.2 Packing contents

The following parts need to present in the package:

- EM4484 Wireless Internet Camera
- Power supply

- UTP network cable
- Camera stand
- Antenna
- Manual
- Installation CD-ROM with setup program and surveillance software

3.0 Installing the camera

Before using the camera, you have to setup the camera for network usage. For the initial installation a wired connection is required. For this, you need the data of the existing network. Refer to the users manual of your modem/router if necessary.

There are two programs supplied:

- 'Admin Software'
Using this program you can search and setup your camera through your network. This program is required to trace the camera's IP-Address for the initial setup
- 'Multi Camera Viewer'
Using this program you are able to make recording using one or multiple EM4484 camera's

3.1 Connecting the camera to your network using a network cable

1. Connect the supplied power supply.
2. Connect the camera to your existing network using the supplied network cable. You can connect to a switch, router or modem. (If needed, you are able to connect the camera directly to your computer if your network card has fixed IP-Address).

3.2 Search and setup the camera

1. Place the supplied CD-ROM in your CD-ROM or DVD-player.
2. Select the desired language.
3. Select 'Admin software' and click 'Next'.
4. If there is a security notification, click 'Run'.
5. The installation will be started. Click 'next'.
6. Click 'Next'.
7. Click 'Next'.
8. Click 'Install'.
9. Click 'Finish'. After finishing the installation, the program will automatically start.
10. A firewall (Windows firewall for example) can cause a warning. If so, choose 'Unblock' or 'Allow' to give permission to connect to your network. After that, you will see the following screen:

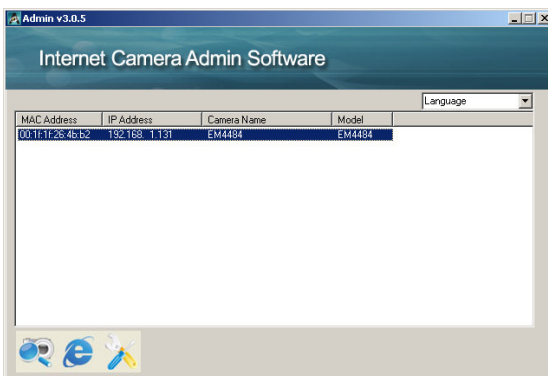


Figure 1.

11. Click the 'Search' button in the bottom left corner of your screen to start searching your camera in your network.
12. When found, select the camera in the list. Two extra buttons will appear.
13. Click the button at the bottom, shown as a little wrench and screw driver, in order to be able to alter the settings of the camera.
14. Insert the default password: 'admin'. Then click 'OK'.
15. By default, DHCP is selected. As a result, the camera will automatically obtain an IP-Address from your network. We recommend the use of a fixed or static IP-Address. Therefore, select 'Manual IP'.
16. The software has the data, received by DHCP, already filled in. You can keep using this IP-Address or you can alter this IP-Address. If you decide to alter this IP-Address, you have to make sure this altered IP-Address is within your networks IP-range. (For example: Your router uses IP-Address 192.168.1.1, the camera's IP-Address will be something like the following: 192.168.1.131).
17. Fill in your routers IP-Address at 'Gateway'.
18. You can leave the 'Subnet mask' as it is, unless you have changed this subnet mask in your network.
19. Fill in your routers IP-Address at 'DNS'. You can also fill in a DNS-Address from your provider in stead of your routers IP-Address.
20. Keep 'Wep Port' unchanged.
21. Click 'OK' to save the changes.

You can leave the current screen open and follow the steps in the next chapter.

4.0 Continuing setting up the camera through the webpage

The camera has its own built-in webpage. Using this webpage, you can view the image and you can alter settings. Firefox can not be used due to the absence of the ActiveX component for image display.

4.1 Opening the camera's webpage

1. The camera's webpage can be opened using two methods:
Using the 'Admin software': Click the icon 'Internet Explorer'.
Using Internet Explorer: Enter the camera's IP-Address on the address bar manually (For example: 'http://192.168.1.131').
2. Using both methods a username and password will be asked. De default username is: 'admin', the default password is: 'admin'.
3. Internet Explorer will give a notification that an application needs to be installed. Click the notification 'Install this application for all users on this computer'. Using Windows Vista you have to choose 'run ActiveX control'.
4. The page will reload, after which a security warning will appear, giving you a warning about the software you are about to install. Choose 'Install'.
5. The live camera image will be displayed.

4.2 Setting up the camera's image

The start page of the camera will display the live image immediately. At the right side you can make several screen alterations.

The different options are:

- 'Resolution': With this option you can alter the size of the screen
- 'Image Quality': The quality of the image can be adjusted using this option
- 'Max Framerate': The maximum amount of frames per second can be adjusted using this option
- 'Frequency': Using this option you alter the frequency of the image. For example: if you see the image flashing or you can see stripes in the image, you can alter the frequency: Choose 'Outdoor' if the camera is targeted outdoors, or when is there is a large amount of sun light in the space the camera is observing
- 'Brightness', 'Contrast', 'Saturation', 'Hue' and 'Whiteness': Using these options, colour saturation can be adjusted
- 'Enable Auto Exposure': This option makes sure the camera's image will not be overexposed
- 'Enable OSD': This option will provide a date and time on screen. Ideal when making snap shots or video recordings through the webpage.

At the bottom of the page you can select the recording path. 'C:\' is selected by default. Many computers have limited writing privileges. Therefore, alter the recording path to another location, for example to the 'Pictures' folder in 'My Documents'.

Click the field where the recording path is filled in to select another folder. Then click 'Apply' to save the altered settings.

4.3 Altering the LAN settings

You can alter several LAN settings at the LAN page of the camera.

4.3.1 Setting up the IP-Address

These settings have already been changed using the supplied software.

At 'Network Type' you can select whether the camera will obtain an IP-Address by DHCP or by using a static IP-Address. Preferably make use of a static IP-Address. In case of a static IP-Address, make sure the IP-Address is in range of your network's IP-Address and is not already in use. Refer to the manual of your modem/router or access the webpage of the modem/router in order to find out the used IP-range.

The subnet mask has to be the same as the subnet mask you are using on your modem/router. At the field 'Gateway' you have to fill in the IP-Address of your modem/router. Usually, you can fill in the same number as the 'Primary DNS' field, however, you can also fill in an external DNS server used by your provider. If there is knowledge of a secondary DNS server, you can fill in this DNS server at 'Secondary DNS'.

4.3.2 Video and HTTP port

The 'Video Port' field indicates the port used to make a video connection. In the 'HTTP Port' field, you will see the current port used for the camera's webpage. By default this port number is 80, this can be altered to your desire. Bear in mind that the camera will be accessible using this new port. For example: <http://192.168.1.131:8080>.

4.3.3 Setting up PPPoE

If connect directly to a PPPoE cable connection, you can use the PPPoE settings. Fill in the correct data and enable this setting by clicking 'Enable'.

4.3.4 Setting up DynDNS

Because a name can be remembered more easily and an Internet IP-Address can change, you can make a dynamic DNS name and set this name in the camera itself. This way, you can view the camera's image by using the name camera.dyndns.org for example.

Attention! If you have already set a dynamic DNS name in your wireless router, there is no need to set this name again in the camera.

You can make an account by sing www.dyndns.org. You will then receive a dynamic DNS name, an username and a password for your connection.

Use the following settings to setup the camera:

1. Select the option 'Enable' at 'Enable DDNS'.
2. Select your 'Dynamic DNS' provider at 'Provider'.
3. Fill in your dynamic DNS name at 'Host Name'. In the 'camera.dyndns.org' example the host name is 'camera'.
4. Fill in the username of your dynamic DNS name at 'User Name'.
5. Fill in the password of your dynamic DNS name at 'Password'.
6. click 'Apply' to save the settings.

If your camera is directly connected to the internet (without wireless router), your camera should be accessible by using your dynamic DNS name!

If your camera is connected wirelessly or by wire by using a (wireless) router, you have to make some alterations in the webpage of your router before the camera can be accessible through the internet. Follow the instructions in chapter 5.

4.3.5 Setting up UPnP

The camera has it's own UPnP function, which can be handy, because with this function, the camera is much easier to find within your network.

The UPnP function is enabled by default and only works if your modem/router had UPnP support. Check the manual of your modem/router whether this function is enabled. If you do not want to use this function, you can disable this function by choosing 'Disable'.

4.3.6 Setting up a snapshot location

Using this function, you can make a snapshot of the camera's image with a name given by your self. For example, fill in a name in the 'snapshot' field and click 'Apply'. Then, open Internet Explorer, and fill in the camera's IP-Address and add the text '/snapshot.jpg'. For example: 'http://192.168.1.131/snapshot.jpg'.

This function can be used if you want to display the camera's image on your own website. Make sure your use the external IP-Address of your website or use the DynDNS name. Do not use the local IP-Address (For example: 192.168.1.x). So, if you want to use the DynDNS name as described in the manual (For example: camera.dyndns.org) use the following shortcut: <http://camera.dyndns.org/snapshot.jpg>

4.4 Setting up the wireless connection (WLAN)

By using the 'WLAN' page, a wireless connection can be established with the use of multiple security types.

Before you can setup a wireless connection, you need some relevant information about your wireless network. You will need the following items before you can setup a wireless connection. (These settings can be found in your modem/router or in the users manual of your modem/router).

- SSID – The name of your wireless network
- Channel – The channel on which your wireless signal is broadcasted
- Security – Indicates the used type of security and what security key is used
WEP, WPA, WPA2 and WPS are the most used security types described in this manual

Make sure you have this information, since you need this information in order to setup the wireless connection.

The camera displays a list of available wireless connections. If your own wireless network is not displayed, click the 'Refresh' button. If your wireless network is still not available, go to the 'Frequently Asked Questions' at the end of this manual.

1. Select 'Enable' at 'Wireless Connection'.
2. 'Network Type' has to be set to 'Infrastructure'.
3. Select your own wireless network, after which the known settings are showed in the planes below (SSID and security).
4. 'At 'Basic Rate', 'Auto' is selected by default. If desired, you can set the speed of your wireless network.
5. If you have a wireless network without security, you can click 'Apply' immediately to save the settings. After that, disconnect the network cable from the camera. The camera is now accessible wirelessly.
If you are using a wireless network with security, you have to set these security settings on the camera itself. Go to the chapter where you . Ga naar het hoofdstuk met de door jouw draadloze netwerk gebruikte beveiliging.

4.4.1 Setting up WEP security

If you have selected your own wireless network in the list, the correct wireless security settings are automatically selected. You only have to fill in the correct network key in the 'WEP Key 1' field (mostly used), or fill in the network key in the 'WEP Key 2, WEP Key 3, or WEP Key 4' field. In what 'Wep Key' field the key has to be filled in depends on the settings of your wireless network.

Then click the 'Apply' button to save the settings. It can take a little while before the page will be reloaded, because the camera itself is trying to establish a connection.

Once the connection has been established, you can disconnect the network cable and you can access the camera wirelessly!

4.4.2 Setting up WPA/WPA2 security

If you have selected your own wireless network in the list, the correct wireless security settings are automatically selected. You only have to fill in the correct network key in the 'WPA Pre-Shared Key' field.

Then click the 'Apply' button to save the settings. It can take a little while before the page will be reloaded, because the camera itself is trying to establish a connection.

Once the connection has been established, you can disconnect the network cable and you can access the camera wirelessly!

4.4.3 Making a connection using WPS

If you have a wireless modem or router which has WPS support, you can simply establish a connection without the need of inserting complicated codes.

1. Press the WPS button on your modem or router for about 1 second.
2. Then press the 'Start PBC' button, after which the camera will try to search the wireless signal and attempts to establish a connection.

Then click the 'Apply' button to save the settings. It can take a little while before the page will be reloaded, because the camera itself is trying to establish a connection. The connection has now been secured.

If you have secured the wireless network using a PIN code, you can use the field 'Registrar SSID'. Fill in your SSID and press the 'Start PIN' button, after which the camera attempts to establish a connection with your network.

Once the connection has been made, you can disconnect the network cable and access the camera wirelessly.

4.4.4 Making an ad-hoc wireless connection

An ad-hoc wireless connection is a direct connection between two wireless devices (or more) without using a wireless router or access point.

We will not explain this subject further, due to the lack of usage of this type of connection.

4.4.5 Disconnecting a connection

If you want to disconnect the wireless connection, you can simply delete the contents of the 'SSID' field. In order to prevent confusion, you can also delete the contents of the 'Security' fields. Then click the 'Apply' button.

4.5 Setting up e-mail

The EM4484 is able to send pictures by e-mail. If this function is enabled, a picture will be send according to a preset time interval.

For this, you have to fill in the mail server (also called SMTP server) of your provider and several other settings in the camera's webpage.

The e-mail server, or SMTP server, can be found on the provider's support page. In the following example we will be using Ziggo (Formerly known as @Home). But, if you have an internet connection by another provider, the Ziggo settings will not work.

1. Click 'E-mail & FTP' at the top of the menu.
2. Fill in the recipients e-mail address at the 'Recipient E-Mail Address' field.
3. Fill in the SMTP or mail server of your provider at the 'SMTP Server' field.
(For example 'smtp.ziggo.nl')
4. Fill in your own e-mail address at the 'Sender E-Mail Address' field.

Optional: In case your provider requires authentication for sending e-mail: (Not required for Ziggo)

5. Select the 'Enable' option at 'SMTP Authentication'.
6. Fill in the username of your e-mail account at the 'User Name' field.
7. Fill in the password of your e-mail account at the 'Password' field.
8. Click 'Apply' to save the settings.

Following the instructions in chapter 4.7, you can setup motion detection, and, you can send e-mail messages based on motion detection to your e-mail account.

4.6 Setting up FTP

The EM4484 can send images automatically using FTP. If enabled, a picture will be send to your FTP server or to your website according to a preset time interval.

For using this function, you need to use the IP-Address, DNS name or the name of your FTP server.

1. Click 'E-mail & FTP' at the top of the menu.
2. Fill the IP-Address or name of your FTP server at the 'FTP Server' field. (For example: ftp.jewebsite.nl).

3. Fill in the FTP server port at the 'FTP Server' field. By default the FTP port is 21. Only alter this port number if this port number has been changed in your FTP server.
4. Fill in the FTP's server's username in the 'User Name' field.
5. Fill in the FTP's server's password in the 'Password' field.
6. Fill in the name of the folder where the images need to be saved. (For example: 'Images').
7. Select 'Enable' at the 'Passive mode' option if your FTP server uses this function. Select 'Disable' if your FTP server does not use this function.
8. Click 'Apply' to save the settings.
9. Navigate to the 'Motion Detection' page.
10. Select 'Enable' at the 'Enable Motion Detection' field.
11. Select the amount of seconds needed at the 'Motion Detection Interval' field.
12. Set at the 'Threshold' field the level of motion detection. Choose 1 for 'Most sensitive' and 9 for 'Not sensitive'.
13. Select the option 'No' at the 'Send snapshot file to E-mail' field.
14. The 'E-mail Subject' field can remain empty.
15. Select the option 'Yes' at the 'Snapshot File to FTP' field.

4.7 Setting up motion detection

In order to activate the motion detection, choose 'Enable'. The planes below will be accessible afterwards. We will give a short explanation about the planes below:

Motion Detection Interval

With this, you can set up a time interval to send the pictures (To e-mail or FTP).

Threshold

With this, you can set the level of motion detection. 1 is the most sensitive level, 9 is the least sensitive level.

Once you have altered the settings, click the 'Apply' button to save these settings. The e-mail and FTP functions are explained elsewhere in the manual.

4.8 Setting up a time schedule

It is possible to send pictures to e-mail or FTP by using a time schedule.

4.8.1 Setting up a FTP time schedule

Make you have inserted the correct FTP settings as described earlier in this manual. In order to send pictures to a FTP server, you have to select the 'Enable' option at 'Enable FTP Schedule'. The planes below will be accessible afterwards

In order to send images to a FTP server, you have to select the 'Enable' option at 'Enable FTP Schedule'. The planes below will be accessible afterwards. A short explanation of the planes are given below:

Time Interval

You are able to setup a time interval, for example, for sending 1 picture every hour. You can alter this setting according to your own wishes, from the amount of frames till the time interval per second, minute, hour or day.

File Control

Choose 'Upload Files with filename composed of date/time' if you want to send the pictures with the date and time as file name. This means you will receive separate files.

Choose 'Overwrite with the same filename' if you want to use only one file name. Fill in a name where 'Snapshot' is mentioned by default and fill in a name you want to give to the file. At each time interval, the file will be overwritten by a files with the same name. This is especially suited if you want to display images on a website.

Click 'Apply' to save the settings.

4.8.2 Setting up an e-mail time schedule

Make sure you have filled in the correct e-mail settings as described in chapter 4.5.

In order to be able to send pictures using e-mail, you have to select the 'Enable' option at the 'Enable E-mail schedule'. The planes below will be accessible afterwards. A short explanation of the planes are given below:

Time Interval

You can setup a time schedule, for example, for sending 1 picture each hour. You can alter this setting according to your own wishes, from the amount of frames till the time interval per second, minute or day.

4.9 Altering System settings and date and time

You can alter the name of the camera and the default administration password as described in the following steps:

1. Click 'System' at the top of the menu.
2. Fill the desired name for the camera at the 'Camera Name' field.
3. Fill in the new password at the 'Password' field.
4. Click 'Confirm Password' to confirm the new password.
5. Click 'Apply' to save the settings.

You can alter the date and time of the camera using the following steps:

6. On the same 'System' page you can manually fill in the data and time by clicking 'Set Date/Time manually'. Then fill in the date and time in the corresponding fields. The order should be following: 'Year/Month/Day' and 'Hours: Minutes'.
7. Select the 'NTP Server' option if you want the date and time automatically be obtained.
8. Select the correct time zone at the 'Time Zone' field. For the Netherlands this is: 'GMT+01:00' Netherlands, France, Italy'.
9. Fill in a time server at the 'NTP Server' field. By default this is 'pool.ntp.org'.
10. Click 'Apply' to save these settings.

4.9.1 Performing a firmware update

Check www.eminent-online.com in order to see if a firmware update is available for the EM4484. If available, download the ZIP file and use the following instructions to install the firmware correctly.

Attention! Only perform the firmware update using a wired connection. If installed using a wireless connection, the camera will be damaged beyond repair!

1. Download the firmware's ZIP file from the website and save this file on your desktop.
2. Extract the files. When using Windows XP or Windows Vista, right click the zipped folder and choose 'Extract all'. Follow the instructions of the wizard onscreen to finish extracting.
3. Connect the camera to your network using a network cable.
4. Temporarily disable the wireless connection by choosing 'Disable' on the WLAN page of the camera.
5. Go to the 'System' page.
6. Click the 'Upgrade Firmware' button, after which a notification will appear. Click 'OK'.
7. A new page will be loaded. Click the 'Browse' button and select the BIN file you have extracted earlier. Click 'Open' to select the file.
8. Then click the 'Upgrade' button in order to load the new firmware.
9. Wait until the upgrading process is done. This process can take a few minutes to be finished. Do not interrupt this procedure!
10. A new page with the following notification will appear automatically: 'System is rebooting'. After a few seconds a link will appear: 'Reconnect to system'. Click this link, after which the 'Status' page will be displayed. On this page you can check if the firmware version has been changed.
11. go to the 'System' page again.
12. Click the 'Reset' button in order to reset the camera to factory defaults.
13. After resetting you have to setup the camera again using the instructions in the manual.

4.10 Creating users

Visitors have to login to camera's webpage with an username and a password. To limit the amount of external visitors, you have to create a 'q\guest' account. Surely, you do not want everybody to be able to alter the settings of your camera.

1. Click 'Users' at the top of the page.
2. Select the option 'Enable' at 'User 1'.
3. Fill in 'quest' at 'Login'.
4. Fill in 'guest' at 'Password'.
5. Again, fill in 'guest' in the 'Confirm Password' field.
6. Click 'Apply'.
7. The account has now been activated.

You can create three more accounts using the same steps, for specific purposes or needs.

To prevent third parties to alter the settings of your camera, we advise never to provide external users the administrator password.

4.11 Other pages

Click 'Log' to view the camera's log. In this log you can see the status of the network connection and the users login activity.

Click 'Logout' to logout. The page will be closed.

5.0 Viewing live camera images through the internet

It is possible to access your EM4484 Internet Camera through the internet in order to view the camera's live images from another location.

You can view the camera's images using a dynamic DNS name (For example: camera.dyndns.org) or based on the camera's internet IP-Address. Setting up a dynamic DNS name has been explained earlier in chapter 4.3.4. If a dynamic DNS name has already been set in your router, there is no need to set up a dynamic DNS name in your camera.

In order to make the camera accessible through the internet, you have to open a port in your modem or (wireless) router. In the following example we will be describing port opening or port forwarding in the Eminent EM4551 wLINK 300 Pro router.

1. Double click the 'Admin Software' shortcut placed on your desktop.
(This program has been installed and described in chapter 3).
2. The program will automatically search for your camera in your network. When found, the camera will be displayed in the list.
3. Write down the IP-Address of your camera. (For example: 192.168.8.100).
4. Close the program.
5. Now open the webpage of your EM4551 by opening Internet Explorer and filling in the EM4551's IP-Address on the address bar, in this case it is:
<http://192.168.8.1>.
6. Login using the EM4551's username and password. The EM4551's default username and password are: 'admin' for username, 'admin' for password.
7. Click 'Setup Tool'.
8. Click 'Advanced Setup'.
9. Click 'NAT/Routing'.
10. Click 'Port Forwarding'.
11. Fill in 'EM4484' in the 'Rule Name' field.
12. Fill in the camera's IP-Address in the LAN IP Address' field, for example: '192.168.8.100'.
13. Select the 'TCP' option at 'Protocol'.
14. Fill in '80' at both 'External Ports' fields. If port 80 is already in use, you can also use another port, for example: 8080.
15. Fill in '80' at both 'Internal Ports' fields, unless you have changed this port in the camera itself. (at the 'LAN' page).
16. Click 'Add', after which the new rule will be added to the list.

The port forwarding has now been finished. Your camera is now accessible externally for third parties. The camera is accessible on the internet IP-address or by using your dynamic DNS name. The camera's webpage can now be opened by typing the following in the address bar of Internet Explorer: <http://external.ip.addr.ess>, (for example: <http://84.12.98.15>).

If you have not set port number 80 at step 14, but another port number, you have to fill in this port number. For example, If you have set port number 8080:

<http://external.ip.addr.ess:8080> or <http://camera.dyndns.org:8080>.

Hint: Fill in the camera's and internet IP-Addresses below. This way, you always have the correct information at hand!

Camera IP-Address: ____ . ____ . ____ . ____

Internet IP-Address: ____ . ____ . ____ . ____

6.0 Using the surveillance software

The surveillance software will automatically be installed through the Wizard on the CD-ROM. At the right upper corner you can set the language to 'Dutch' if needed.

1. An 'IPcam' shortcut has been added to your desktop in order to start the 'IPCam Surveillance Software'. Click this shortcut in order to start the program.
2. Press the button with the little wrench to add the camera to the software.
3. Choose 'Configure Camera'.
4. A firewall notification may appear (For example, the Windows firewall). Grant permission to make a connection.
5. For the first camera, select 'channel 1' in the 'Channel List'.
6. The found camera's will be displayed in the frame 'Camera Search'. If the camera has not been found, click 'Refresh'. Select your camera. Information about the camera will be filled in the frame 'Camera Configuration'.
7. Go to 'Set Time schedule' if you want to make recordings on specific times.
8. Go to 'Motion detection' to set motion detection.
9. Click 'OK' to close the page.
10. Now you will see the camera's image in the grid.

6.1 Making recordings

1. Click the button with the little wrench to alter the camera's settings.
2. Choose 'General Options'.
3. Select a folder to save the recording to at 'Data Directory'.
4. If needed, alter the settings in the frame 'General Settings':
 - a. 'Maximum size video files', maximum size of the video files is 50 Mb.
 - b. 'Scan Time', the amount of seconds to scan, 3 is the default setting
 - c. 'Recording cycle', recycling the file (and size), 'Disable' is the default setting.
5. Click 'OK' to save the settings.
6. Select the camera from which you want to make recordings of, by clicking the desired camera.
7. Accordingly click the 'Record' with the camera icon. Or click the camera icon with the right mouse button and choose 'Start Recording'.
8. The recording will start, also shown by the red 'Rec' notification at the right lower part of the screen.
9. Click with the right mouse button on the camera's image to stop the recording.

6.2 Viewing and managing recordings

1. Click the 'Play' button to view recordings.
2. By using the 'Time Search' frame, you can search specific times in all available recordings.

3. By using the 'Motion Search' frame, you can search for recorded motion detections on specific times in all available recordings.
4. Then click 'Play' to view the selected recording.

7.0 Frequently asked questions

Q: The CD-ROM does not start automatically?

A: You can start the CD-ROM manually. Go to 'Start', 'Run' and type: 'x:\wizard\wizard.exe' (x= the drive letter of your CD-ROM or DVD station) and press the 'Enter' button on your keyboard.

Q: How can I sharpen the image?

A: By carefully turning the camera's lens, you can alter the images sharpness.

Q: The camera's image seems to be overexposed. What can I do about this?

A: The image can get overexposed when exposed to sunlight. Select the 'Frequency' option on the 'Camera' page, select 'Outdoor' and click 'Apply' to save these settings.

Q: The image of the camera contains horizontal stripes. What is causing this?

A: It can be caused by the light Fluorescent tubes transmit. This light does not sync with the camera's lighting. You can solve this by selecting the '60Hz' option on the 'Camera' page.

Q: Can I turn off the LED's on the front of the camera?

A: This is possible. Log in to the camera's webpage and go to 'System'. On this page, click the 'Turn off LED light' option to disable the LED's.

Q: How can I reset the camera to factory settings?

A: Turn on the camera and wait until the LAN light on the front of the camera begins to burn, sometimes this light will blink. Now press the tip off a ballpoint or paperclip to the 'Reset' button at the bottom of the camera for about 20 seconds till the lights on the camera go out. The camera has now been reset to factory defaults. Now wait for another 30 seconds before setting up the camera again.

Q: Does the camera work behind a firewall or router?

A: You can make the camera externally accessible when port 80 is forwarded in the firewall or router. Refer to the manual of your firewall or router for more specific details.

Q: I do not get an image in Internet Explorer?

A: Click 'Tools' in Internet Explorer, then click Internet Options'. Choose the tab 'Security', then 'adaptor level'. Disable all ActiveX options (Or choose 'Ask') and

click 'OK'. Close all Internet Explorer pages. Then restart Internet Explorer and try to obtain the camera's image.

- Q: My wireless network (SSID) is not visible on the WLAN page?*
- A: Check whether the antenna is screwed onto the EM4484.
- A: Make sure the EM4484 is within range of your wireless network. For a starting point, place the camera within a few meters of your wireless modem/router. Once you have made the setup, you can place the EM4484 on the desired location.
- A: If your wireless network is hidden (Hidden SSID), your SSID will not be displayed. Based on the displayed MAC address, you can check whether it is your own network. The MAC address of your router can be found on the bottom of the router itself. (The last digit can deflect from the displayed MAC address).
- Q: I am using Windows Vista and I am not able to make a snapshot or recording from the webpage of the camera?*
- A: Temporally disable the secured mode of Internet Explorer.
1. Click 'Extra' in Internet Explorer.
 2. Click 'Internet Options'.
 3. Click 'Security'.
 4. Disable 'Secured mode'.
 5. Click 'Add'.
 6. A warning will appear. Click 'OK'.
 7. Click 'OK' to close 'Internet Options'.
 8. Close Internet Explorer and then restart Internet Explorer.
- A: Add the camera's IP-Address to the trusted websites.
1. Click 'Extra' in Internet Explorer.
 2. Click 'Internet Options'.
 3. Click 'Security'.
 4. Click 'Trusted Websites'.
 5. Click 'Websites'.
 6. A new screen will appear. Disable the 'Server verification' option (https:).
 7. Add the camera's IP-Address, for example 'http://192.168.1.131'.
 8. Click 'Add'.
 9. Click 'Close'.
 10. Click 'Add'.
 11. Click 'OK' to close 'Internet Options'.
 12. Close Internet Explorer and then restart Internet Explorer.
- A: Start Internet Explorer in the administrator mode. Right click the Internet Explorer icon (On your desktop or in your start menu) and choose 'Run as Administrator'.

8.0 Service and support

This users manual has been carefully written by Eminent's technical experts.

If you have problems installing or using the product, please fill out the support form at the website www.eminent-online.com/support.

Declaration of Conformity

To ensure your safety and compliance of the product with the directives and laws created by the European Commission you can obtain a copy of the Declaration of Conformity concerning your product by sending an e-mail message to: info@eminent-online.com. You can also send a letter to:

Eminent Computer Supplies
P.O. Box 276
6160 AG Geleen
The Netherlands

Clearly state 'Declaration of Conformity' and the article code of the product of which you would like to obtain a copy of the Declaration of Conformity.



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