

EMINENT



MANUAL

EM4482 - Rotating Internet Camera

WWW.EMINENT-ONLINE.COM

EM4482 - Rotating Internet Camera



Warnings and points of attention

Opening of the product and/or products can lead to severe injuries! Repairs on this product should be done by the qualified Eminent staff only!

Table of contents

1.0 Warranty conditions.....	2
2.0 Introduction	3
2.1 Functions and features	3
2.2 Packing contents	3
2.3 Explanation of the camera	4
2.4 The remote control	5
3.0 Connecting the camera.....	5
4.0 Configuring the camera for your network	6
5.0 Setting up the camera	6
5.1 Setting the time.....	6
5.2 Adjusting the image quality	7
5.3 Configuring motion detection	7
5.4 Configuring night vision	7
5.5 Configuring and managing authority levels	7
6.0 Saving images.....	8
6.1 Inserting a Compact Flash card	8
6.2 Making screenshots.....	8
6.3 Viewing screenshots.....	8
6.4 Saving screenshots	8
6.5 Recording video.....	8
7.0 Viewing live images through the Internet	9
7.1 Remotely managing the camera	9
8.0 Configuring e-mail	9
9.0 Connecting an external source	10
10.0 Advanced functions of the camera.....	10
11.0 Frequently asked questions	11
12.0 Service and support.....	12

1.0 Warranty conditions

The five-year Eminent warranty applies for 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 indissolubly 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 exposed to incorrect/improper use, external influences and/or when opened by parties other than Eminent.

2.0 Introduction

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

2.1 Functions and features

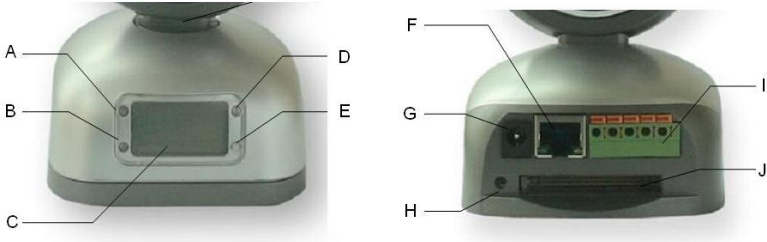
The EM4482 is a unique IP-Camera. This camera is equipped with a built-in motor, enabling the camera to turn in all directions for a complete overview. This function can even be controlled from another location, making this a perfect surveillance camera! Because of the 6 infrared LED's you will have a great view even in the dark.

2.2 Packing contents

The following parts need to be present in the packing:

- EM4482, IP-Camera.
- Remote control.
- Manual.
- Installation CD-rom.
- Power adapter.
- Mounting foot with screws.

2.3 Explanation of the camera



- (A) Status LED. This LED shows the status. Normally it blinks.
- (B) User LED. This LED will be on when someone is logged into the camera.
- (C) LCD screen. This screen alternately shows the IP address, the subnet mask and the gateway of the camera.
- (D) Privacy LED. Will be lit when the privacy function is active.
- (E) Infrared receiver.
- (F) 10/100 MB RJ45 Network connection.
- (G) 5 V DC Power connector.
- (H) Reset button.
- (I) Input & Output pins (see chapter 10.0 for use).
- (J) Compact Flash card slot.

The LCD screen displays the following symbols:



Indicates the camera is connected to the Internet.



Camera operates in Configuration status. This symbol is shown when the camera is updating.



A user is logged into the camera.

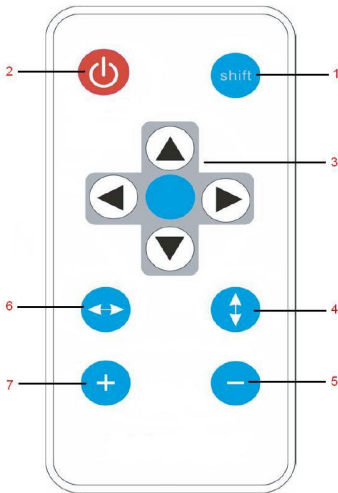


Compact Flash card detected.



Externally connected sensor activated.

2.4 The remote control



- (1) Shift. Can only be used with the + button (button 5) and the – button (button 7).
- (2) Privacy. Enables or disables the camera view.
- (3) Movement buttons. Enables you to move the camera to the left or the right and up or down. When using the center button the camera returns to its starting position.
- (4) Auto function. Automatically moves the camera up or down.
- (5) Enables you to make the camera move slower. First press the “Shift” button, then press this button to adjust the speed.
- (6) Auto function. Automatically moves the camera to the left or the right.
- (7) Enables you to make the camera move faster. First press the “Shift” button, then press this button to adjust the speed.

3.0 Connecting the camera

Before you can use the EM4482 IP-camera, you will need to set it up for your network. Make sure you have all the information about your network at hand. Consult the manual of your modem or router to obtain this information.

1. Connect the power adapter to the camera.
2. Plug the power adapter into a power socket.
3. Connect the camera to your network using the provided network cable. This can be a switch, router or modem (if needed you can also connect the camera

directly to your computer, as long as your network card has a manually configured IP address).

4.0 Configuring the camera for your network

1. Insert the CD-rom into the CD-rom or DVD drive of your computer.
2. Select the preferred language.
3. Click "Next".
4. Click the option "Install software".
5. Follow the instructions on your screen.
6. To use the installed software, click "Start/All Programs/Eminent EM4482 IPCam/Eminent Multiview/IPCam Wizard".
7. All detected cameras are displayed. Select your camera by clicking it.
8. Click "Set IP-address" to configure the IP address of your camera.
9. Make sure the IP address of the camera lies within the range of your network.

For instance: If the IP address of the router is 192.168.1.1 then set the IP address of the camera to 192.168.1.100.

10. Enter the IP address of your router in the "Gateway" field.
11. Click "Save" to assign the new IP address to your camera.
12. The camera is now configured for your network.

5.0 Setting up the camera

Now that the camera is correctly connected, you can set it up to your own wishes. Before setting up the camera you will need to open the camera menu. Follow the steps below:

1. Go to "Start/All Programs /Eminent EM4482 IPCam/Eminent Multiview/IPCam Wizard". In the window that now opens is displayed whether the camera has been detected or not. (Windows Vista users right-click the wizard and select 'run as administrator in order to avoid problems.')
2. Choose "Connect IP cam" and you will be led to the menu of the camera.
3. Choose "Set-up".
4. You are now asked to enter the username and password of the camera. Enter "admin" in the "Username" field, enter "123456" in the "Password" field
5. You are now logged in to the camera. Here you can adjust the settings of the camera.

5.1 Setting the time

It is possible to set the date and time in the camera. The easiest way is to let the camera set the date and time automatically. Follow these steps:

Use your mouse to click “Basic/Date & Time”. Then click “Automatic Time Adjustment” to automatically set the time and date.

5.2 Adjusting the image quality

This camera allows you to choose which image quality to use. You can choose between: “Low”, “Middle” and “High”. This stands for Lowest quality, Average quality and Highest quality. To set the quality, go to “Basic/Image Setting” and choose the preferred image quality.

Apart from the image quality you can also adjust the resolution. The higher you set the resolution, the clearer the image will be.

5.3 Configuring motion detection

This camera can be set to recognize movement. When this function is enabled, the camera will start recording as soon as a motion is detected. To use this function, go to “Advanced/Sensors/Enable Motion Detection”. By default the function is disabled.

Choose “Yes” to activate the motion sensor.

You can also set the sensitivity of the motion detection. You can choose from position “1”, which is the most sensitive, to position “10”, which is the least sensitive. The default position is “5”, which is average. The more sensitive the position you choose, the sooner the camera will start recording when motion is detected.

5.4 Configuring night vision

This camera is equipped with the possibility to use the camera in the dark and make recordings using night vision. Because of this function the camera is extremely capable of keeping an eye on a room or guarding it. If you want to use this function you can go to “Basic/Image Setting/Night Vision”. Check “Enable Night Vision LEDs” to enable night vision. You can also set the sensitivity of the night vision. You can choose from position “1”, which is meant for very dark environments, to position “10”, which is meant for a normal dark environment. By default the camera is set to position “1” so you will always have an optimal image in the dark.

5.5 Configuring and managing authority levels

You can set a number of users for this camera, each with their own authority level. You would not want a normal user to alter the settings of the camera, therefore Eminent implemented this camera with the possibility to set several types of users. This way you (as administrator) can configure and manage all settings, while friends or acquaintances can log in and only watch the image. A safe and easy solution. To use this option go to “Basic/Users”. In this menu you can enter names and passwords and set the preferred authority level for each user. You can also set an additional user with Administrator rights, if for some reason you can not manage the camera yourself, but you still want the camera to be managed. Go to “Basic/Users”

and add Administrator rights to the preferred user. This user will then have all rights, just like the administrator.

6.0 Saving images

The EM4482 IP camera allows you to save images and files, for instance on a Compact Flash card. In the camera menu you can also choose to print certain images, or to view saved images.

6.1 Inserting a Compact Flash card

If you own a Compact Flash card, this camera allows you to save images and files to this card. Turn off the camera and then insert the card in the appropriate slot of the camera. See image J in chapter 2.3. After the card has been inserted you can turn the camera back on.

6.2 Making screenshots

You can use this camera to make screenshots of the image the camera is showing at that moment. If you want to make a screenshot, follow these steps:

Log in to the camera as explained in chapter 5 and then go to "User Visit". Use the button "Snapshot" to make screenshots of the current image of the camera. These images will be saved to your computer and also to the Compact Flash card, if you inserted it.

6.3 Viewing screenshots

The screenshots you made can also be viewed. When the Compact Flash card has been inserted, you can watch these screenshots by clicking "Links/History Images", where the images are stored.

6.4 Saving screenshots

When the button "Snapshot" is used, the images will be automatically saved to the computer in a predefined location. If you wish you can alter the location of these images by clicking "Set snapshot Path". Here you can enter the location to which the images will be saved.

6.5 Recording video

Using this Eminent camera you can record video files. All motions and images the camera registers can be saved as a video. A useful feature if you wish to view what event took place while you were away.

To record video files, click "REC" in the menu of the camera. Here you can enter the location to which the video file should be saved. From that point on everything the camera registers will be saved to a video file. Note that saving these files takes up a

lot of hard disk space. If you do not stop recording, the camera will keep recording until there is no free disk space left. To stop recording, click "STOP REC". The camera will stop recording the video. If you wish to view the recorded video files, you can browse to the location where the files have been saved to.

7.0 Viewing live images through the Internet

You can even access the camera through the Internet. A useful feature if you are not at home but would still like to view the events happening in the room where the camera has been installed. The following steps need to be taken if you wish to access the camera through the Internet from another location.

7.1 Remotely managing the camera

Make sure your connection to the Internet is functioning properly if you want to configure the camera. You only need to follow a few instructions:

You will first need to know your WAN IP address, which is the Internet address your modem or router received from your provider. You can easily find your IP address at www.whatismyip.com. Write down the IP address, you will need it later on.

To be able to access the camera through the Internet you will need to open port 80 in your modem or router. Consult the manual of your modem or router to find out how to open this port.

After following these instructions you can test the connection. Open your Internet browser (Internet Explorer, Mozilla Firefox). To access the camera through the Internet enter the following address in the address bar: <http://wanipaddress:80> . If everything has been correctly configured you are now able to view the image of the camera.

It is not always possible to access the camera from within your own home network using your WAN IP address. This will only work if your modem or router supports the so-called loopback function. If your modem or router is not equipped with this function you will need to test the camera from another location or Internet connection. Ask a friend or colleague to access the camera from his/her location.

8.0 Configuring e-mail

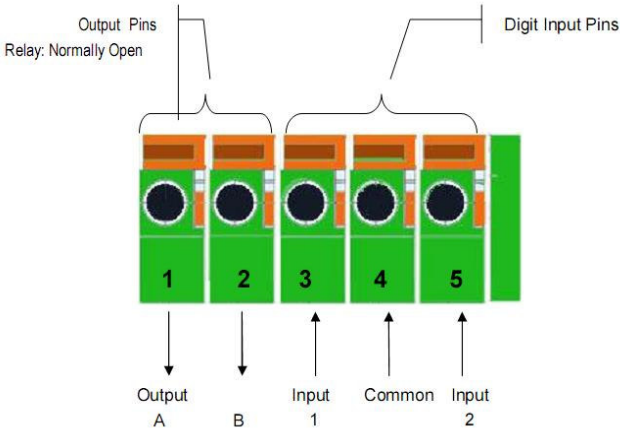
The camera is equipped with an e-mail reporter. This means the camera can be configured to send you an e-mail containing an image as soon as a motion is detected. The following steps need to be followed to accomplish the latter.

1. Go to "Advanced/Sensors" in the menu of the camera.
2. In the "Motion Detection" menu you need to go to "Enable Motion Detection".
3. Choose "Always" to enable the motion detection.

4. Go to “Send E-mail” and select “Enable”.
5. In the “Mail Receiver 1” field you need to enter the e-mail address where you would like to receive a message as soon as motion is detected.
6. You can enter a second e-mail address in the “Mail Receiver 2” field. (optional)

9.0 Connecting an external source

You can connect an external source to your camera. This source can be connected on the back of the camera. See the following figure:



An external source can, for instance, be a door switch. You can connect this with 1 cable to the Common pin and 1 cable to the Input 1 pin. To connect a cable, use a screwdriver to push the orange lip above the pin. Now push in the cable. Configuring the external source can be done in the “Advanced/Sensors”.

10.0 Advanced functions of the camera

This camera is equipped with a number of advanced. Here you will find a short explanation of a selection of functions:

1. Encryption: Here you can secure the video stream of the camera with an encryption key. The maximum key length is 16 characters. We recommend you to choose a key with a minimum length of 6 characters. The key may consist of both letters and numbers.

JPEG encryption can best be used in combination with a user or guest authority level (see chapter 5.5) and not in combination with an admin authority level.

2. FTP service: If the FTP service is enabled you can let the camera send images to your FTP server as soon as motion is detected.
3. Maintenance: Here you can upgrade the software of the camera to a newer version. You can also return the camera back to its default settings.

11.0 Frequently asked questions

Q: The CD-rom does not start automatically.

A: You can start the installation wizard by clicking "Start", then "Run". Type "X:\wizard\wizard.exe" in the field 'Open' (X is the drive letter of your CD-rom or DVD station) and click "OK".

Q: The image is unclear. How can I improve the image?

A: You can adjust the focus by carefully turning the lens of the camera.

Q: The lights on the camera are not lit, is this correct?

A: These are infrared LED's. Infrared light is virtually invisible. When the infrared light is activated images can still be viewed, but within a limited range (ca. 3 meters).

Q: The image of the camera seems over-exposed, what can be done?

A: Change the sensor settings in the webpage of the camera. Open the webpage and select "System Setup". Choose "Image Setting". Choose "Indoor" for indoor use of the camera and "Outdoor" when the camera is used outdoors.

Q: The image of the camera shows horizontal lines. Why does this happen?

A: This can happen when the light of a neon tube is not synchronous to the lights of the camera. You can solve this by changing the exposure, in the webpage of the camera under "System Setup/Image Setting", to 60 Hz, which is the same frequency as the neon light.

Q: How do I reset the camera to its defaults settings?

A: Turn the camera on. Push the button under the connection of the power adaptor using a pen or paperclip. Keep it pushed for about 15 seconds. The camera has now been reset.

Q: Can the camera function behind a firewall or router?

A: The camera can be made externally reachable by forwarding port 80 in the router or firewall. Consult the manual of your router for more details.

Q: I cannot view the camera image using Internet Explorer?

A: Click “Extra” in Explorer, then “Internet Options”. Choose the “Security” tab, then “Custom Level”. Disable all ActiveX options and click “Ok”. After a restart the image should work.

Q: *What are the screw holes underneath the camera for?*

A: These can be used to attach the provided foot to the camera. The foot allows you to attach the camera to a wall or the ceiling.

12.0 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 contact support@eminent-online.com.

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.



Trademarks: all brand names are trademarks and/or registered trademarks of their respective holders.
The information contained in this document has been created with the utmost care. No legal rights can be derived from these contents. Eminent cannot be held responsible, nor liable for the information contained in this document.



Eminent is a member of the Intronics Group