

OMNIUS – User's instructions for settings of router, camera and Omnius user's account

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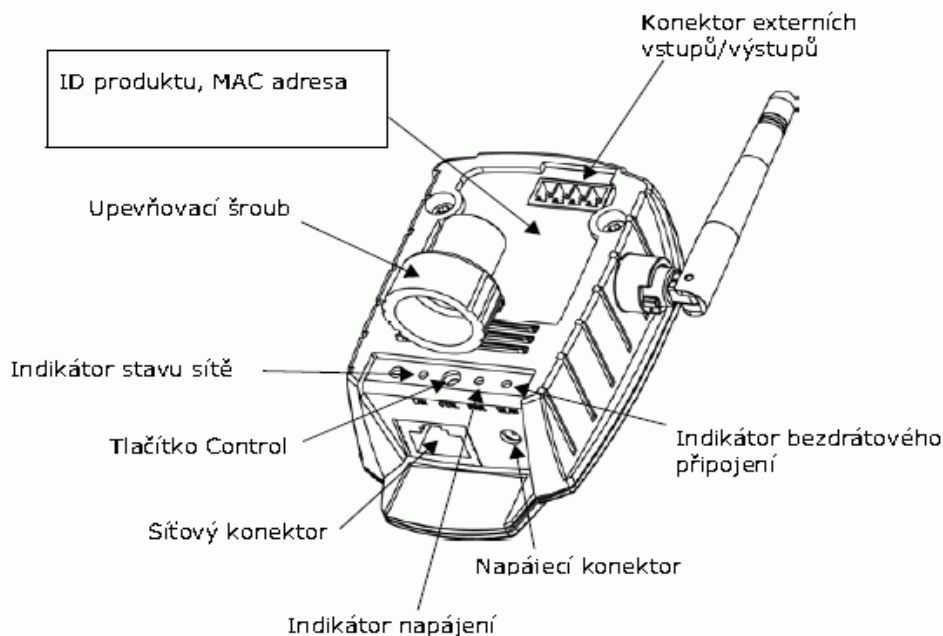
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Note: The following text describes settings of a DSL-G684T home ADSL2 router and an Axis207 camera. The settings for other product models or brands may differ.

You need to know your login name and the password of your Omnius account for adding a camera to your Omnius account.

1. Settings of router

- 1.1. Log into the router by typing the router's IP address in the address row of your web browser. The router's default address is usually <http://192.168.1.1>. or 192.168.0.1. Further information can be found in the user's manual of your router.
- 1.2. Then assign a free IP address to the appropriate serial number (MAC address) – go to LAN / Static DHCP (before this, make sure the IP address is not yet used in your network)






Note: The MAC address can be found on a seal on the back of the camera (for Axis cameras, it starts with 00408C...)

Static IP Assignment

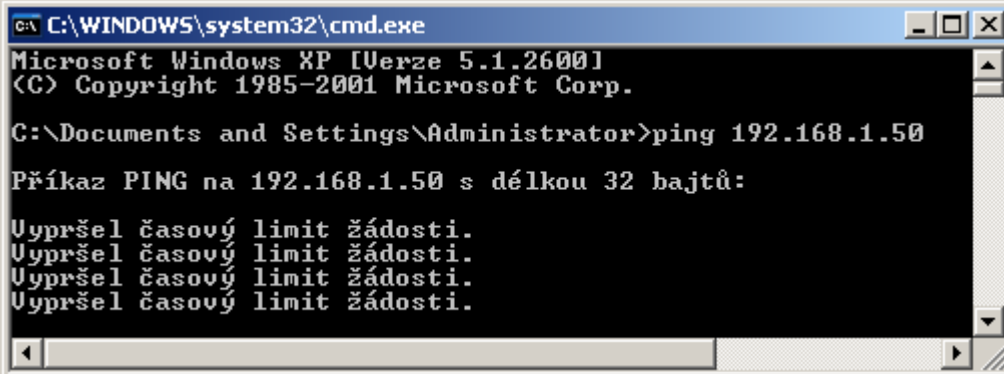
	MAC Address	IP Address
Static IP1:	00-40-8C-75-0E-47	192.168.1.50
Static IP2:		
Static IP3:		
Static IP4:		
Static IP5:		

Enter MAC Address format as
xx-xx-xx-xx-xx-xx, i.e: 00-0C-6E-D5-11-22,
and IP Address format as yyy.yyy.yyy.yyy, i.e:
10.0.0.2




 Apply Cancel Help

1.3. Checking the IP address:

1.4. Run the command line program (Start/Programs/Accessories/Command Line) – you have to be connected in the same network as the camera – and type *ping x.x.x.x* (whereby *x.x.x.x* is the IP address of your camera, e.g. *ping 192.168.1.50*)



```

C:\WINDOWS\system32\cmd.exe
Microsoft Windows XP [Verze 5.1.2600]
(C) Copyright 1985-2001 Microsoft Corp.

C:\Documents and Settings\Administrator>ping 192.168.1.50

Příkaz PING na 192.168.1.50 s délkou 32 bajtů:

Uypršel časový limit žádosti.
Uypršel časový limit žádosti.
Uypršel časový limit žádosti.
Uypršel časový limit žádosti.
  
```



1.5. If "Time limit of request expired" appears, the selected IP address is available. If "Response from 192.168.1.50" appears, the IP address is already in use in the network and you must choose another.

1.6. Write the MAC address (serial number) of the camera. The MAC address is written on a seal on the back the camera (it starts with 00408C).

1.7. Next, it is necessary to set up the translation of the internal IP address to a public IP address. You will get your public IP address from your ISP (Internet Service Provider). Follow the menu item Virtual Server/Rule Management, and you can set up the appropriate ports for each camera. Port numbers such as 8081, 8082, 8083, 8084, etc. are usually used.

Rule Management

Rule Name
 Protocol
 Port Start Port End
 Port Map



 Apply Cancel

Protocol	Port Start	Port End	Port Map	Delete
TCP	8081	8081	8081	<input type="checkbox"/>

Example: now the camera connected on port 8081 can be accessed from public Internet network typing whole URL in the command line of your webbrowser: <http://x.x.x.x:8081> (see also 2.5 and 3.2)

2. Settings of camera

- 2.1 Connect your camera to both the electric and the data network using the attached cables (the data cable is connected to the camera and to the router). Wait until the green LEDs are constantly lit.
- 2.2 Write the IP address of your camera in the address field of your web browser (it's the same as you set up in your router according to step 1 above) and push the Enter button.
- 2.3 When you are logged into the web administration page of your camera for the first time, you are asked to change your password. Change the password and remember it. (*Note: If you forget your password, you will have to reset your camera to the factory default settings by pushing the "RESET" button and then repeat the configuration process.*)
- 2.4 Log into the camera interface again; as the username, use *root*; as the password, use the password which you assigned in the previous step.
- 2.5 Go through the camera menu to the item **Setup/System Options /Network/TCP/IP/Advanced**, select the item *HTTP port* and change it to the same number which you set up in your router (8081 in our example). Port numbers such as 8081, 8082, 8083, 8084, etc. are usually used.

Now you will use the following for access to your camera settings interface: <http://x.x.x.x:8081> (according to our example).

3. Assigning a camera with your Omnius account

- 3.1 Log into your account through <http://www.omnius.cz> using your Omnius login name and password (which you obtained during your Omnius registration and ordering)
- 3.2 In **Settings/ Add camera** enter the camera's parameters:
 1. Camera type – select appropriate camera from the pull-down menu
 2. Name: you will see your camera with this name in the Omnius account
 3. Camera security: enter the username and password for access to your camera

4. Camera parameters – enter your public IP address **incl. the port number** (the public IP address is different from the ones according to points 1.1 and 1.4). You will obtain your IP address from your ISP.

e.g. assuming your router has the public IP address <http://x.x.x.x> and you assigned port no. 8081 to your camera – you will enter following URL in your webbrowser's comand line: <http://x.x.x.x:8081> (see also 1.7 and 2.5)

5. Click the *check* button to check if your settings are correct.

OMNIUS kamerový dohledový systém

GuardSec mobile digital surveillance solutions

[Kamery] uživatel **dheger** [odhlásit] [přidat kameru] [nastavení]

uživatelské nastavení

správa kamer přidat kameru licence změna hesla zpět na kamery

- 1 Typ kamery:**
Axis 207
- 2 změna parametrů pro axiska**
Název: Ulice
Popis: Pohled na dům z ulice
- 3 Zabezpečení kamery:**
uživatelské jméno: root
heslo: *
- 4 Parametry kamery:**
komunikační protokol: http
IP adresa kamery (hostname): xx.xx.xx.xx:8081
- 5 Kontrola kamery:** zkontrolovat

Uložit

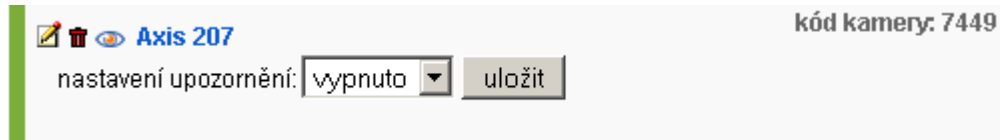
verze 7.1 [[PC klient](#)] [[uživatelský manuál](#)] © GuardSec 2006

4. Archive settings

A precondition for archive settings is your having assigned your camera to your account according to point 3.

4.1 General camera settings

- 1) **Settings of date and time.** Choose the item "Synchronize with computer time" in your camera settings menu
- 2) **Settings of FTP Upload**



Select upload type: FTP

Settings of FTP server:

address: ftp.omnius.cz

path: put the "camera code" here. The camera code is the 4-digit number which can be found to the right of the camera name in the "Settings" menu – see illustration.

username: your Omnius username

password: your Omnius password

tick "use passive mode"

- 3) **Settings of SMTP (e-mail) account** (use only in case FTP is not available; if you use FTP, skip point 3)

Primary mail server: smtp.omnius.cz (mandatory item)

Important: It is not possible to use another SMTP server for the Omnius service!!

Tick the item "Use authentication to log into this server."

username: your Omnius username (obtained during your Omnius service registration)

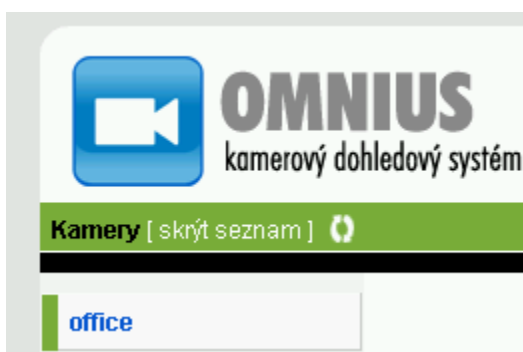
password: your Omnius password (obtained during your Omnius service registration) (tick "SMTP Authentication")

- 4) **Event settings for motion detection**

Choose: e-mail notification

E-mail address: must be written in the following form: username@archive.omnius.cz (username=your Omnius login name)

Subject: camera code (see Settings of FTP Upload)



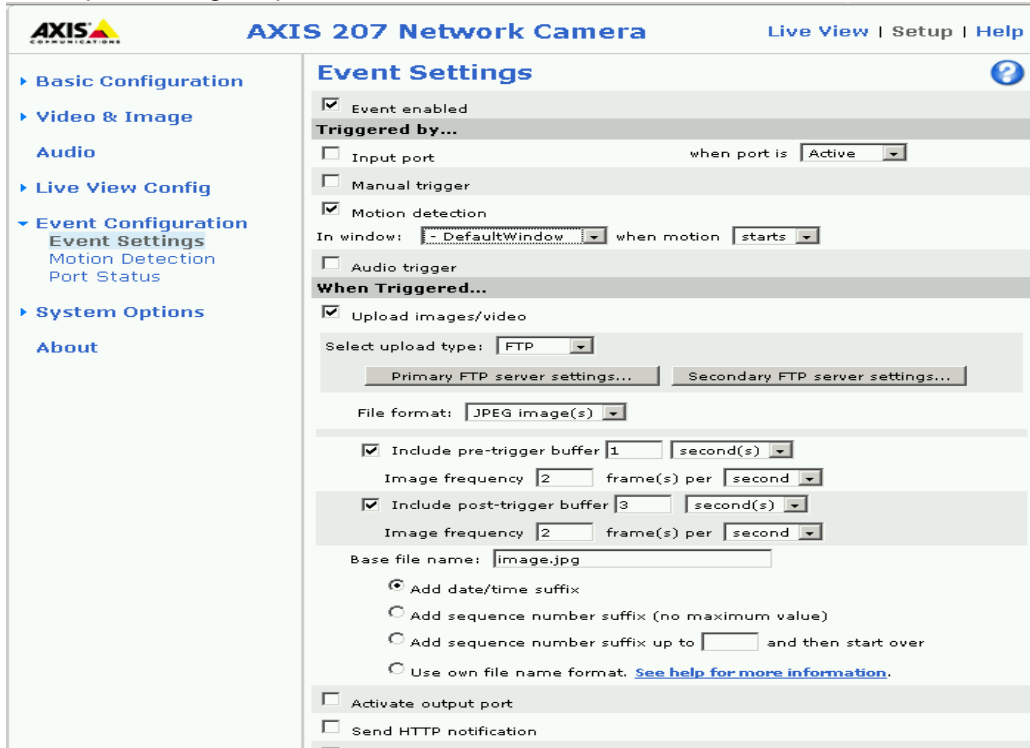
4.2 Settings of Axis 207 camera

4.2.1 Settings of the camera time

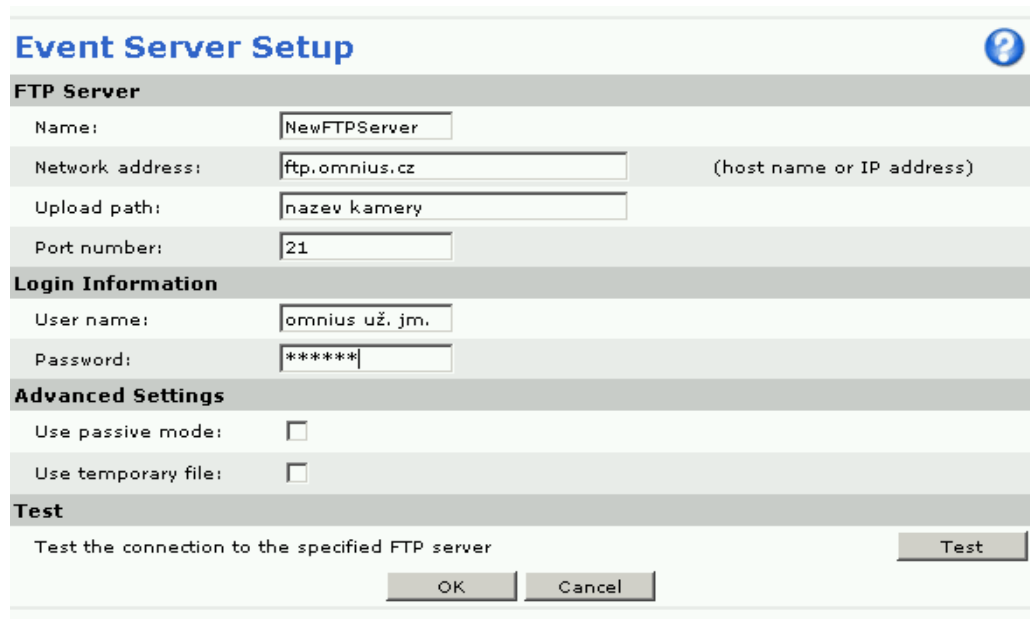
In your camera menu choose "Basic Configuration"

4.2.2 Settings of FTP server

Set up according the picture:



Then click the Primary FTP server settings and set up according to the following illustration:



The **Upload path** is your camera name which you assigned in the Omnius portal (see point 3.2). Use English alphabetic characters only, excluding special characters (such as space?!*#&... etc.), otherwise the

communication of the camera and the Omnius archive server will not be established and you will have no data in the archive.

Username and Password: use your Omnius account login name and password.
Check if everything is correct by clicking the **Test** button

4.3 Settings of motion detection

(for Axis cameras)

4.3.1 General

Image motion detection is a way to consider and evaluate the movement of objects in a defined space by means of analysis of the image. This solution enables the definition of the specific part of the frame where you want to monitor motion.

4.3.2 Camera position

The correct settings of motion detection and good quality of archived data also depend on the camera position. Several tips:

Picture quality:

- Put the camera in a well-lit area.
- Don't position the camera facing strong light sources.
- If possible, don't aim the camera at high-contrast places.
- When shooting through a window, put the camera as close to the window as possible in order to avoid a mirror effect.
- Don't aim the camera towards direct sunlight. (This can even damage the camera chip!)

Motion detection:

- Position the camera so that it detects only the motion which you want to monitor (i.e., don't place the camera at a great distance or in an area with an extreme amount of motion in the frame)

Note: Sudden changes of lighting (e.g. flash, car headlight reflection, etc.) may be considered as motion and Omnius will send a notification and start archive recording (according to your settings).

4.3.3 Settings of motion detection (Axis 207)

Motion detection has to be set up directly through the webpage of the camera settings.

- Log into your camera (see 2.4)

- Click **Setup / Event Configuration / Motion Detection**
- If required, enter your login name ("root") and password again
- Click **Add Window** and, using the mouse, change the size of the window to the requested size of the object (e.g, entry door) and change the description from the "Default Window" to, e.g., "Door".
- Save your settings by clicking the Save button.
- Set up sensitivity using Object Size, History and Sensitivity (see description below).



- ▶ **Basic Configuration**
- ▶ **Video & Image**
- ▶ **Audio**
- ▶ **Live View Config**
- ▶ **Event Configuration**
 - Event Settings
 - Motion Detection**
 - Port Status
- ▶ **System Options**
- ▶ **About**

Motion Detection

Motion Detection

0

Include Exclude

DefaultWindow

Object Size

History

Sensitivity

Activity

View All Windows

View Selected Window

Video

5 fps

Description of particular features.

Object size: The size of the moving object which is supposed to trigger detection. 0% = small objects will also be considered and will trigger detection. 100% = only very large objects will be considered and will trigger detection.

History: Settings of the memory of the object's size. 0% = the object in the detection frame must move for a long time in order for detection to be triggered. 100% = an object which appears in the frame even briefly will trigger detection.

Sensitivity: Brightness changes in the frame. 100% = standard-colored objects in a normal background will trigger motion detection. 0% = only very bright objects in a very dark background will trigger detection.

Note: You may try to set up several options in order to find the best settings for you.

Typical examples:

- 5.1. apartment
- 5.2. office during the time when no one is present, lit poorly only by exterior light (even at night)
- 5.3. workshop with slight lighting even when no one is present
- 5.4. space with constantly good lighting

Advice: When testing your detection settings, make a movement similar to that which you want to archive. If the chart in the "Activity" window becomes red and it's above the horizontal line, the motion has successfully been detected.

5. Archive on the Omnius portal

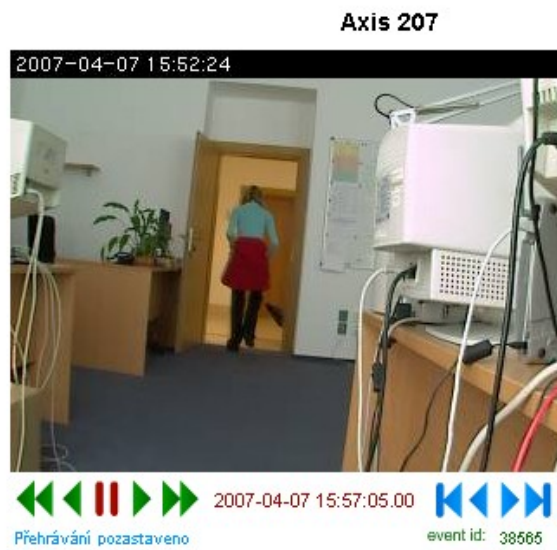
After a correct setting of the camera (see Chap. 4. Settings), the pictures are stored on the Omnius server when motion is detected.

5.1 Archive access

- Log into the Omnius service (<http://www.omnius.cz>) using your Omnius login name and password.
- In the left navigation field, select the camera which you set up for archive storage of events. (Archive setting is done in the camera menu.)
- Click the "archive" link.
- You will see a list of events stored in your archive and, at the same time, the last event is played.

5.2 Organization of the archive

The archive is organized by time units: days, hours and minutes. Recorded events are highlighted in red.



archiv [on-line](#)

<	duben 2007						dnes	>
Po	Út	St	Čt	Pá	So	Ne		
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2	3	4	5	6	7	8		
9	10	11	12	13	14	15		
16	17	18	19	20	21	22		
23	24	25	26	27	28	29		
30								

7. duben 2007						
0:00	1:00	2:00	3:00	4:00	5:00	
6:00	7:00	8:00	9:00	10:00	11:00	
12:00	13:00	14:00	15:00	16:00	17:00	
18:00	19:00	20:00	21:00	22:00	23:00	

hodina 15:00																													
00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29
30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59

5.3 Searching the archive

When accessing the archive, automatic playing of the last event begins. Playing of other events is activated by clicking the red-highlighted recordings. The archive size is limited by your Omnius package. You can find the size and approx. length of your archive in the technical specifications of the Omnius service (see <http://www.omnius.cz>)