

INSTALLATION GUIDE

www.axis-shop.ru

AXIS M3011/M3014 Network Camera

ENGLISH

About this Document

This document includes instructions for installing the AXIS M3011/M3014 on your network. Previous experience of networking will be beneficial when installing the product.

Legal Considerations

Video and audio surveillance can be prohibited by laws that vary from country to country. Check the laws in your local region before using this product for surveillance purposes.

This product includes one (1) MPEG-4 decoder license. To purchase further licenses, contact your reseller.

Electromagnetic Compatibility (EMC)

This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures: Re-orient or relocate the receiving antenna. Increase the separation between the equipment and receiver. Connect the equipment to an outlet on a different circuit to the receiver. Consult your dealer or an experienced radio/TV technician for help. Shielded (STP) network cables must be used with this unit to ensure compliance with EMC standards.

USA – This equipment has been tested and found to comply with the limits for a Class B computing device pursuant to Subpart B of Part 15 of FCC rules, which are designed to provide reasonable protection against such interference when operated in a commercial environment. Operation of this equipment in a residential area is likely to cause interference, in which case the user at his/her own expense will be required to take whatever measures may be required to correct the interference.

Canada – This Class B digital apparatus complies with Canadian ICES-003.

Europe –  This digital equipment fulfills the requirements for radiated emission according to limit B of EN55022, and the requirements for immunity according to EN55024 residential and commercial industry.

Japan – This is a class B product based on the standard of the Voluntary Control Council for Interference from Information Technology Equipment (VCCI). If this is used near a radio or television receiver in a domestic environment, it may cause radio interference. Install and use the equipment according to the instruction manual.

Australia – This electronic device meets the requirements of the Radio communications (Electromagnetic Compatibility) Standard AS/NZS CISPR22.

Equipment Modifications

This equipment must be installed and used in strict accordance with the instructions given in the user documentation. This equipment contains no user-serviceable components. Unauthorized equipment changes or modifications will invalidate all applicable regulatory certifications and approvals.

Liability

Every care has been taken in the preparation of this document. Please inform your local Axis office of any inaccuracies or omissions. Axis Communications AB cannot be held responsible for technical or typographical errors and reserves the right to make changes to the product and documentation without prior notice. Axis Communications AB makes no warranty of any kind with regard to the material contained within this document, including, but not limited to, the implied warranties of merchantability and fitness for a particular purpose. Axis Communications AB shall not be liable nor responsible for incidental or consequential damages in connection with the furnishing, performance or use of this material.

RoHS

This product complies with both the European RoHS directive, 2002/95/EC, and the Chinese RoHS regulations, ACPEIP.



WEEE Directive

The European Union has enacted a Directive 2002/96/EC on Waste Electrical and Electronic Equipment (WEEE Directive). This directive is applicable in the European Union member states.



The WEEE marking on this product (see right) or its documentation indicates that the product must not be disposed of together with household waste. To prevent possible harm to human health and/or the environment, the product must be disposed of in an approved and environmentally safe recycling process. For further information on how to dispose of this product correctly, contact the product supplier, or the local authority responsible for waste disposal in your area. Business users should contact the product supplier for information on how to dispose of this product correctly. This product should not be mixed with other commercial waste.

Support

Should you require any technical assistance, please contact your Axis reseller. If your questions cannot be answered immediately, your reseller will forward your queries through the appropriate channels to ensure a rapid response. If you are connected to the Internet, you can:

- download user documentation and firmware updates
- find answers to resolved problems in the FAQ database.
- Search by product, category, or phrases
- report problems to Axis support by logging in to your private support area.

AXIS M3011/M3014 Network Camera

This guide helps you install the AXIS M3011/M3014 Network Camera on your network. For more details about this product, see the AXIS M3011/M3014 Network Camera's user manual, available from or in the Axis Network Video Product CD.

1 Installation steps

1. *Install the camera*, on page 5
2. *Assign the IP address*, on page 6
3. *Set the password*, on page 9
4. *Lens adjustments*, on page 10
5. *Complete the installation*, on page 10

Important!

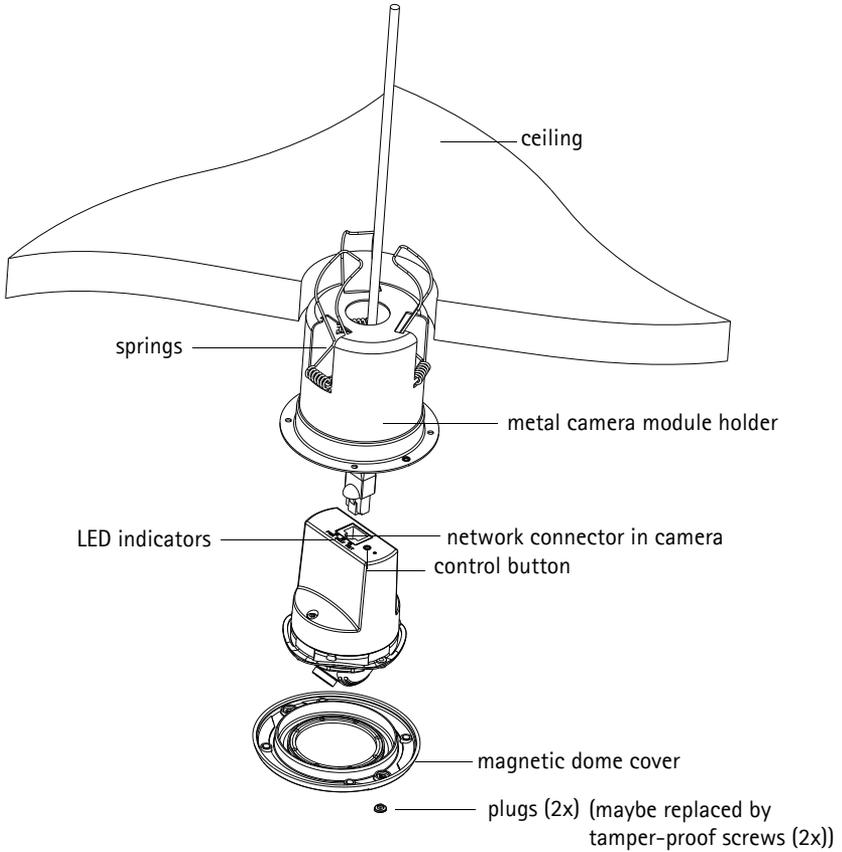
This product must be installed in compliance with local laws and regulations.

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2 Package contents

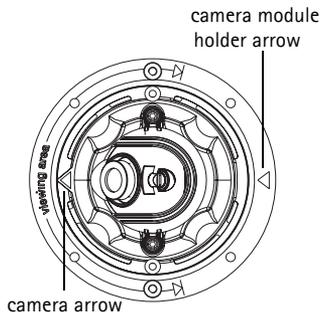
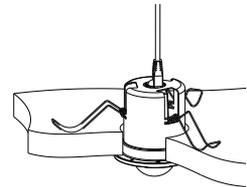
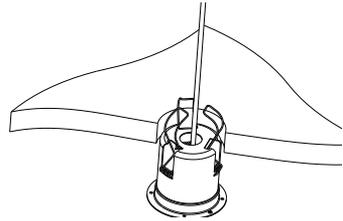
Item	Title/Variants
Network camera	AXIS M3011/M3014 Network Camera
Mounting kit	<ul style="list-style-type: none"> • 2 M3 x 4mm screws • Plastic drop ceiling mount ring and polycarbonate transparent cover • 2 plastic plugs attached to the plastic drop ceiling mount ring • Metal camera module holder • One allen key (hex key)
PoE Midspan	Power over Ethernet midspan (1 port) including mains cable (Midspan not included in bulk pack)
CD	AXIS Network Video CD, including product documentation, installation tools and other software.
Printed material	AXIS M3011/M3014 Network Camera Installation Guide Warranty document

3 Hardware overview



4 Install the camera

1. Check the package contents against the table on page 3.
2. Drill a hole (70-76mm, 2.75 - 3 inches) in the ceiling to fit the camera's metal camera module holder.
3. Remove the camera from the metal camera module holder.
4. Carefully push and set the three springs on the metal camera module holder back into their slots.
5. Pull the network cable through the ceiling and through the camera's metal camera module holder.
6. Insert the metal camera module holder through the ceiling. Ensure that **Viewing area** marked on the rim of the cup faces the area that is to be monitored.
7. Fix the metal camera module holder into the ceiling. Insert an instrument such as a screw driver into the metal camera module holder and release the springs so they clamp down on the ceiling and hold the cup in place.
8. Attach the cable to the network connector (supports PoE class 1) in the camera. If PoE is not supported by the network switch, use the supplied PoE midspan/power injector to connect power to the AXIS M3011/M3014 Network Camera.
9. Check that the indicator LEDs indicate the correct conditions. See the table on page 13 for further details.
10. Align the camera arrow with the camera module holder arrow and insert the camera into the metal camera module holder.
11. Turn the camera so that the camera arrow points to **Viewing area** marked on the rim of the metal camera module holder.



12. Proceed to *Assign the IP address*, on page 6.

Note:

If the camera module holder is mounted onto a hard ceiling such as metal or wood, the metal camera module holder can be screwed onto the ceiling, and the springs can be removed.

5 Assign the IP address

The AXIS M3011/M3014 Network Camera is designed for use on an Ethernet network and requires an IP address for access. Most networks today have a DHCP server that automatically assigns IP addresses to connected devices. If your network does not have a DHCP server, the AXIS M3011/M3014 Network Camera will use 192.168.0.90 as the default IP address.

AXIS IP Utility and AXIS Camera Management are recommended methods for setting an IP address in Windows. These free applications are available on the Axis Network Video Product CD supplied with this product, or they can be downloaded from Depending on the number of cameras you wish to install, use the method that suits you best.

Method	Recommended for	Operating system
 AXIS IP Utility See page 7	Single camera Small installations	Windows
 AXIS Camera Management See page 8	Multiple cameras Large installations Installation on a different subnet	Windows 2000 Windows XP Pro Windows 2003 Server Windows Vista

Note:

If you are unable to set the IP address, check for any firewall blocking the operation.

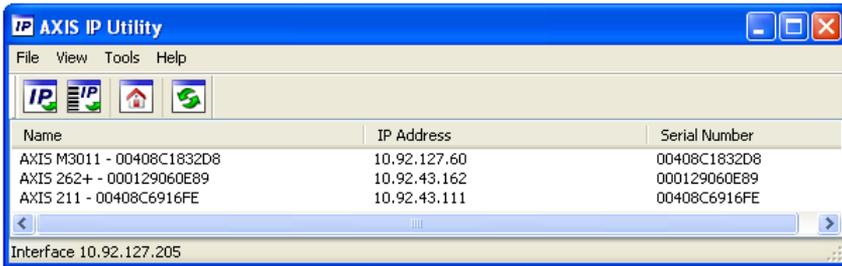
See page 11 for other available methods for setting or discovering the IP address of the AXIS M3011/M3014 Network Camera, in relation to other operating systems.

AXIS IP Utility – single camera/ small installation

AXIS IP Utility automatically discovers and displays Axis devices on your network. You can also manually set a static IP address through this application. AXIS IP Utility is available on the Axis Network Video Product CD, or it can be downloaded from

Note that you must install the AXIS M3011/M3014 Network Camera on the same network segment (physical subnet) as the computer running AXIS IP Utility.

Automatic discovery



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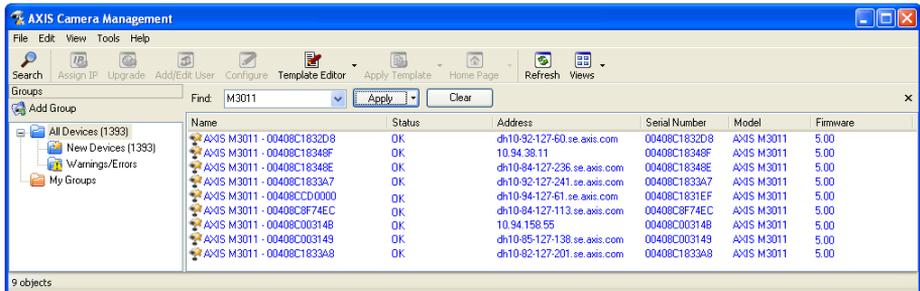
1. Check that the AXIS M3011/M3014 Network Camera is connected to the network and that power has been applied.
2. Start AXIS IP Utility.
3. When AXIS M3011/M3014 appears in the window, double-click to open the camera's home page.
4. See page 9 for instructions on how to set the password.

Set the IP address manually (optional)

1. Acquire an unused IP address on the same network segment your computer is connected to.
2. Click the button  Assign new IP address to selected device – and enter the serial number and IP address for the AXIS M3011/M3014 Network Camera. The serial number is located on the product label.
3. Click the Assign button and follow instructions.
4. Click the Display device home page button to access the AXIS M3011/M3014 Network Camera web pages.
5. See page 9 for instructions on how to set the password.

AXIS Camera Management - multiple cameras/large installations

AXIS Camera Management can automatically discover multiple Axis devices, show connection status, manage firmware upgrades and set IP addresses.



Automatic discovery

1. Check that the camera is connected to the network and that power has been applied.
2. Start AXIS Camera Management. In the window that appears double-click AXIS M3011/M3014 to open the camera's home page.
3. See page 9 for instructions on how to set the password. Set the IP address in multiple devices.

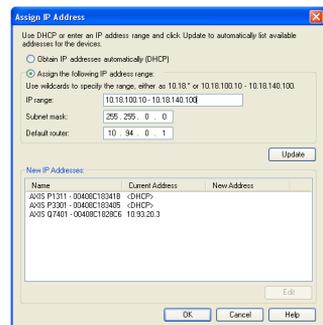
Assign an IP address in a single device

1. Select AXIS M3011/M3014 in AXIS Camera Management and click the Assign IP button .
2. Select Assign the following IP address and enter the IP address, the subnet mask, and default router the device will use.
3. Click OK.



Assign IP addresses in multiple devices

1. AXIS Camera Management speeds up the process of assigning IP addresses to multiple devices, by suggesting IP addresses from a specified range.
2. Select the devices you wish to configure (different models can be selected) and click the Assign IP button .
3. Select Assign the following IP address range and enter the range of IP addresses, the subnet mask, and default router the devices will use.
4. Click the OK button.



6 Set the password

To gain access to the product, the password for the default administrator user root must be set. This is done in the 'Configure Root Password' dialog, which is displayed when the network camera is accessed for the first time.

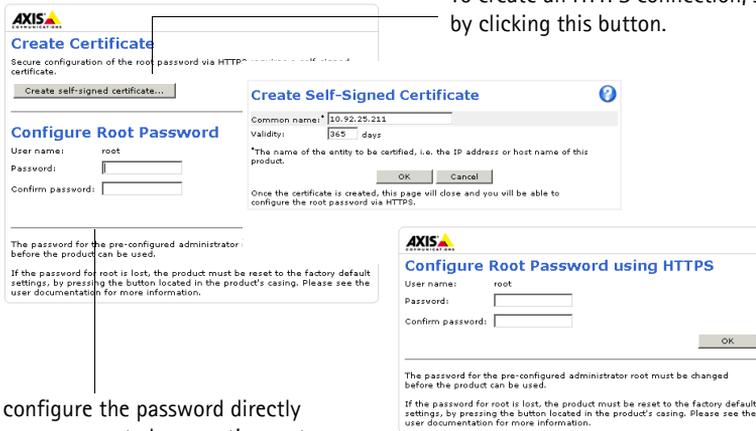
To prevent network eavesdropping when setting the root password, this can be done via an encrypted HTTPS connection, which requires an HTTPS certificate (see note below).

To set the password via a standard HTTP connection, enter it in the **Configure Root Password** window.

To set the password via an encrypted HTTPS connection, follow these steps:

1. Click the Create self-signed certificate button.
2. Provide the requested information and click OK. The certificate is created and the password can now be set securely. All traffic to and from the AXIS M3011/M3014 Network Camera is encrypted from this point on.
3. Enter a password and then re-enter it to confirm the spelling. Click OK. The password has now been configured.

To create an HTTPS connection, start by clicking this button.



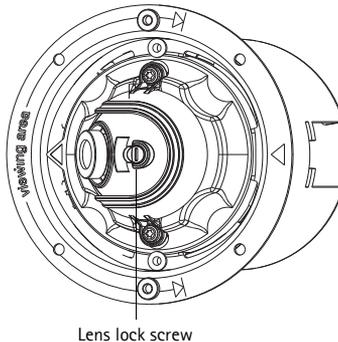
To configure the password directly via an unencrypted connection, enter the password here.

4. To log in, enter the user name "root" in the dialog as requested. (The default administrator user name root cannot be deleted.)
5. Enter the password as set above, and click OK. If the password is lost, the AXIS M3011/M3014 must be reset to the factory default settings. See page 13.
6. If required, click Yes to install AMC (AXIS Media Control), which allows viewing of the video stream in Internet Explorer. You will need administrator rights on the computer to do this.
7. The Live View page of the AXIS M3011/M3014 is displayed. The Setup link gives you menu options that allow you to customize the camera.

7 Lens adjustments

To adjust the position of the lens, follow these steps:

1. Open the Live View page in your web browser.
2. While checking the image in the Live View page, move the lens to the desired position.



Focus

The focus of the AXIS M3011/M3014 Network Camera is set at the factory from 0.5m to infinity. It does not normally need adjustment. To focus on objects closer than 0.5m, or if for some reason the lens has lost focus, this can be adjusted in the following way:

1. Loosen the lens lock screw.
2. Manually rotate the lens to adjust the focus until the image on the Live View page is satisfactory.
3. Gently retighten the lens lock screw.

8 Complete the installation

- Place the magnetic dome cover over the camera. Align the rivet holes.
- The rivet holes can be covered with the plastic plugs provided.
- If the dome needs to be secured, use the tamper-proof screws provided and screw the dome on.
- The installation is now complete.

Other methods of setting the IP address

This table shows alternative methods for setting or discovering the IP address. All methods are enabled by default, and all can be disabled.

	Use in operating system	Notes
UPnP™	Windows	When enabled on your computer, the camera is automatically detected and added to "My Network Places."
Bonjour	MAC OS X (10.4 or later)	Applicable to browsers with support for Bonjour. Navigate to the Bonjour bookmark in your browser (e.g. Safari) and click on the link to access the camera's web pages.
AXIS Dynamic DNS Service	All	A free service from Axis that allows you to quickly and simply install your camera. Requires an Internet connection with no HTTP proxy. See for more information.
ARP/Ping	All	See below. The command must be issued within two minutes of connecting power to the camera.
View DHCP server admin pages	All	To view the admin pages for the network DHCP server, see the server's own documentation.

Note:

- UPnP™, DHCP and Bonjour are enabled by default in the AXIS M3011/M3014 Network Camera.

Setting the IP address with ARP/Ping

1. Acquire an IP address on the same network segment your computer is connected to.
2. Locate the serial number (S/N) on the AXIS M3011/M3014 Network Camera product label.

In Command Prompt enter the following commands (as appropriate for your operating system):

Windows syntax
<pre>arp -s <IP Address> <Serial Number> ping -l 408 -t <IP Address></pre>
Windows example
<pre>arp -s 192.168.0.125 00-40-8c-18-10-00 ping -l 408 -t 192.168.0.125</pre>

UNIX/Linux/Mac syntax
<pre>arp -s <IP Address> <Serial Number> temp ping -s 408 <IP Address></pre>
UNIX/Linux/Mac example:
<pre>arp -s 192.168.0.125 00:40:8c:18:10:00 temp ping -s 408 192.168.0.125</pre>

3. Check that the network cable is connected to the camera. Start/restart the camera by disconnecting and reconnecting power.
4. Close the Command prompt when you see 'Reply from 192.168.0.125:...' or similar.
5. Start your browser, type in `http://<IP address>` in the Location/Address field and press Enter on your keyboard.
6. See page 9 for instructions on how to set the password.

Note:

- To open a command prompt in Windows - select Run... from the Start menu, and type cmd (or command in Windows 98/ME). Click OK.
- To use the ARP command on a Mac OS X, use the Terminal utility, which is found under Application > Utilities.

LED indicators

LED	Color	Description
Network	Green	Steady for connection to 100 Mbit/s network. Flashes for network activity.
	Amber	Steady for connection to 10 Mbit/s network. Flashes for network activity.
	Unlit	No connection.
Status	Green	Shows steady green for normal operation. Note: The Status LED can be configured to be unlit during normal operation, or to flash only when the camera is accessed. See the online help files for more information. Go to Setup > System Options > LED settings
	Amber	Steady during startup, reset to factory default or when restoring settings.
	Red	Slow flash for failed upgrade.
Power	Green	Normal operation.
	Amber	Flashes green/amber during firmware upgrade.

Accessing AXIS M3011/M3014 Network Camera from the Internet

Once installed, the AXIS M3011/M3014 Network Camera is accessible on your local network (LAN). To access the camera from the Internet, network routers must be configured to allow incoming traffic, which is usually done on a specific port. Please refer to the documentation for your router regarding this.

For more information on this and other topics, visit the Axis Support Web at

Resetting to the Factory Default Settings

This will reset all parameters, including the IP address, to the Factory Default settings:

1. Disconnect power from the camera.
2. Press and hold the Control button and reconnect power.
3. Keep the control button pressed until the Status Indicator displays amber (this may take up to 15 seconds).
4. Release the control button.
5. When the Status Indicator displays green (which can take up to 1 minute) the process is complete and the camera has been reset.
6. Re-install AXIS M3011/M3014 Network Camera using one of the methods described in this document.

More information

It is also possible to reset all parameters, except the IP parameters, to the original factory settings via the web interface. For more information, please refer to the online help and the user's manual. The AXIS M3011/M3014 Network Camera User's Manual is available from the Axis Web site at or from the Axis Network Video Product CD.