



AXIS 210/210A/211/211A
Network Camera
Installation Guide

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AXIS 210/210A/211/211A Network Camera Installation Guide

This installation guide provides instructions for installing the AXIS 210/210A/211/211A Network Camera on your network. For other aspects of using the product, please see the AXIS 210/210A/211/211A User's Manual, available on the CD included in this package, or from www.axis.com

Installation steps

Follow these steps to install the network camera on your local network (LAN):

1. Check the package contents against the list below.
2. Connect the network camera. See page 4.
3. Set an IP address. See page 5 for information on the available methods.
4. Set the password. See page 9.

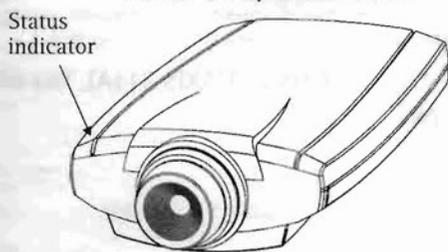
Package contents

Item	Notes
Network camera	AXIS 210/210A/211/211A
Power adapter	Country-specific
Camera stand	Supplied with mounting screws
I/O terminal connector	4-pin I/O terminal connector – 1 transistor output, 1 digital input, auxiliary power and GND
CD	Installation tool and other software, product documentation
Printed materials	<ul style="list-style-type: none"> • AXIS 210/210A/211/211A Installation Guide (this document) • Axis Warranty Document

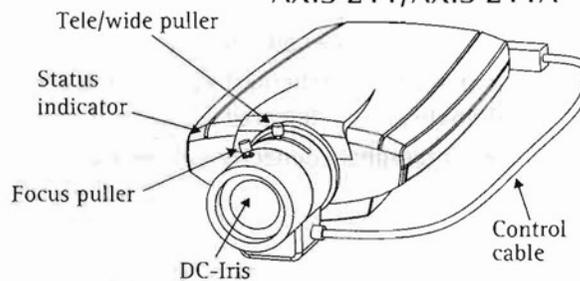
Overview

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AXIS 210/AXIS 210A



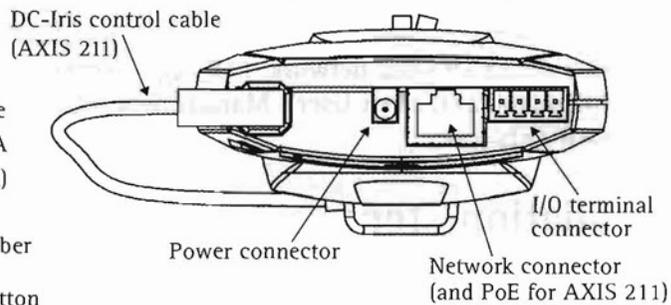
AXIS 211/AXIS 211A



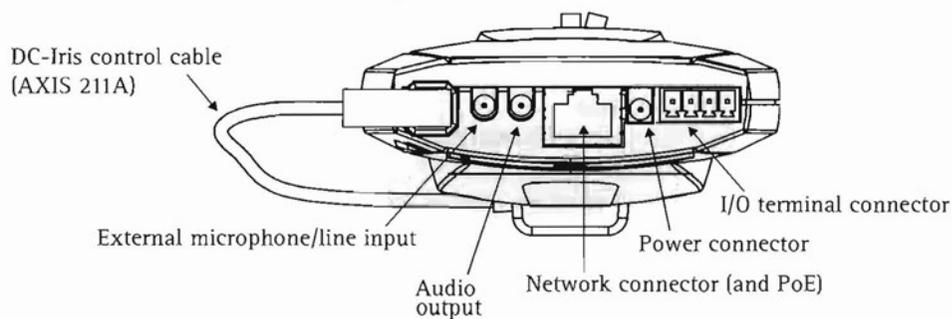
Underside



Rear panel AXIS 210/AXIS 211



Rear panel AXIS 210A/AXIS 211A



Connections

1. Connect the network camera to your network using a standard network cable.
2. Connect power, using one of the 3 supported methods listed below:
 - The supplied power adapter.
 - PoE (Power over Ethernet) via the network cable (AXIS 210A/AXIS 211/AXIS 211A). This will automatically be detected if available via the network.
 - The I/O terminal connector on the rear panel.

Important!

To use the network camera outdoors it must be installed in an outdoor enclosure. For more information on outdoor enclosures, please visit www.axis.com

Setting the IP address

The AXIS 210/210A/211/211A is designed for use on an Ethernet network and must be assigned an IP address to make it accessible.

AXIS IP Utility

AXIS IP Utility is the recommended method for setting an IP address in Windows. This free application can be used on networks with or without a DHCP server. See page 6 for more information.

All installation methods

This table shows all of the available methods for setting or discovering the IP address. Select a method from the left-hand column and check the requirements for it to the right.

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Installation methods ↓	Requirements →	DHCP Server in network	Install on same network segment	Internet connection with no HTTP proxy	Operating system
AXIS IP Utility (recommended method) See page 6		Optional	Required		Windows
UPnP™ See page 7		Optional	Required		Windows (ME or XP)
ARP/Ping See page 7			Required		All
AXIS Dynamic DNS Service See page 8		Recommended		Required	All
View DHCP server admin pages for IP address (See note below)		Required			All

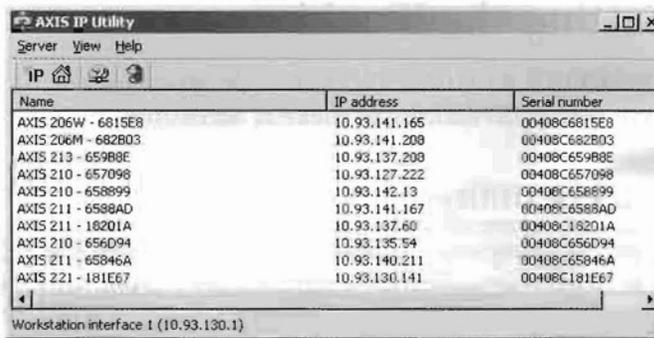
- Notes:
- UPnP™ and DHCP are both enabled by default in the AXIS 210/210A/211/211A.
 - The AXIS 210/210A/211/211A has the default IP address 192.168.0.90
 - To view the admin pages for the DHCP server, please see the server's own documentation. You may need to contact your network administrator.
 - If setting the IP address fails, check that there is no firewall blocking the operation.

AXIS IP Utility

AXIS IP Utility is a free Windows application that discovers and displays Axis devices on your network.

The application can also be used to manually set a static IP address.

Note that you must install the network camera on the same network segment (physical subnet) as the computer running AXIS IP Utility.



The screenshot shows the AXIS IP Utility application window. It has a menu bar with 'Server', 'View', and 'Help'. Below the menu bar are icons for IP, Home, and Refresh. The main area contains a table with three columns: Name, IP address, and Serial number. The table lists several Axis devices with their respective IP addresses and serial numbers. At the bottom of the window, it says 'Workstation interface 1 (10.93.130.1)'.

Name	IP address	Serial number
AXIS 206W - 6815E8	10.93.141.165	00408C6815E8
AXIS 206M - 682B03	10.93.141.209	00408C682B03
AXIS 213 - 65988E	10.93.137.209	00408C65988E
AXIS 210 - 657098	10.93.127.222	00408C657098
AXIS 210 - 658899	10.93.142.113	00408C658899
AXIS 211 - 6588AD	10.93.141.167	00408C6588AD
AXIS 211 - 18201A	10.93.137.60	00408C18201A
AXIS 210 - 656D94	10.93.135.54	00408C656D94
AXIS 211 - 65846A	10.93.140.211	00408C65846A
AXIS 221 - 181E67	10.93.130.141	00408C181E67

AXIS IP Utility is available on the CD supplied with this product, or it can be downloaded from www.axis.com/techsup

Automatic discovery

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

Set the IP address manually

1. Acquire an unused IP address on the same network segment your computer is connected to.
2. Click the button  (Set IP address using serial number) and enter the serial number and IP address for the network camera. The serial number (S/N) is located on the camera's underside label (see page 4).
3. Click the Set IP button and then restart the network camera (within 2 minutes).
4. Click View Home Page to access the network camera's web pages.
5. See page 9 for instructions on how to set the password.

Note:

AXIS IP Utility can be used to change a dynamically set IP address to a static one.

UPnP™

UPnP™ functionality is enabled by default in the AXIS 210/210A/211/211A. If also enabled on your computer (Windows ME or XP), the network camera will automatically be detected and a new icon will be added to "My Network Places." Click this icon to access the network camera.

See also page 9 for instructions on how to set the password.

Note:

To install the UPnP™ service on your computer, open the Control Panel from the Start Menu and select Add/Remove Programs. Select Add/Remove Windows Components and open the Networking Services section. Click Details and then select UPnP as the service to add.

UPnP™ is a certification mark of the UPnP™ Implementers Corporation.

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Manual Installation with ARP/Ping

1. Acquire an unused IP address on the same network segment your computer is connected to.
2. Locate the serial number (S/N) on the camera's underside label (see page 4).
3. Open a Command Prompt on your computer. As appropriate for your operating system, enter the following commands:

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

4. Check that the network cable is connected. Start/restart the camera by disconnecting and reconnecting power, which must be done within 2 minutes of entering the ARP command.
5. Close the Command prompt when you see 'Reply from 192.168.0.125: ...' or similar.
6. Start your browser, type in http://<IP address> in the Location/Address field and press Enter on your keyboard.
7. See page 9 for instructions on how to set the password.

- Notes:**
- To open a command prompt in Windows: from the Start menu, select Run... 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.

The AXIS Internet Dynamic DNS Service

The AXIS Internet Dynamic DNS Service is a free service provided by Axis. This service allows you to quickly and simply install your camera, which then receives a static name (DNS name) and a dynamic IP address. More information about the AXIS Internet Dynamic DNS Service is available at www.axiscam.net

To perform this procedure, your network should have an Internet connection with no HTTP proxy, and IP addresses should preferably be assigned via DHCP.

Follow these instructions:

1. After making the connections for network and power, wait for the Status indicator on the front of the camera to show a steady green.
2. Press the Control button on the underside of the camera **once**. The Status indicator flashes green while it connects to the AXIS Internet Dynamic DNS Service.
3. Wait for the Status indicator to go back to showing a steady green.
4. To complete the installation, now visit www.axiscam.net from an Internet connected computer. This must be done within 60 minutes of pressing the Control button.
5. Follow the on-screen instructions provided by the AXIS Internet Dynamic DNS Service. You will need the product's serial number to complete the installation. See page 4. See also page 9 for instructions on how to set the password.

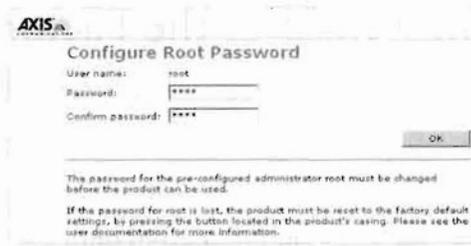
Important!

Please note that this procedure will send the IP address, firmware version, product type, serial number and HTTP port number of the network camera to the AXIS Internet Dynamic DNS Service. No personal information is transferred.

To remove the DNS name and unregister from this service, open the Setup pages in the network camera, click **System Options > Network > TCP/IP > Basic**, click the **Settings** button for the AXIS Internet Dynamic DNS Service and finally, click the **Remove** button.

Setting the Password

1. When accessing the AXIS 210/210A/211/211A for the first time, the 'Configure Root Password' dialog will be displayed on the screen.
2. Enter a password and then re-enter it, to confirm the spelling. Click OK.
3. The 'Enter Network Password' dialog will appear. Enter the User name: root
 Note: The default administrator user name root is permanent and cannot be deleted.
4. Enter the password as set in step 2 above, and click OK. If the password is lost, the AXIS 210/210A/211/211A must be reset to the factory default settings. See page 10.
5. If required, click Yes to install AMC (AXIS Media Control), to allow viewing of the video stream in your browser. You will need administrator rights on the computer to do this.
6. The Live View page of the AXIS 210/210A/211/211A is displayed, complete with links to the Setup tools, which allow you to customize the camera to your specific needs.



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Live View | Setup | Help

Help - Displays online help on all aspects of using the camera.

Setup - Provides all the necessary tools for setting up the camera to requirements.

Accessing the network camera from the Internet

Once installed, your network camera is accessible on your local network (LAN). To access the network 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 for further instructions.

For more information on this and other topics, please visit the Axis Support Web at www.axis.com/techsup

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 (on the underside of the camera) and reconnect power.
3. Keep the button pressed until the Status Indicator displays yellow (this may take up to 15 seconds), then release the button.
4. When the Status indicator displays green (which can take up to 1 minute) the camera is reset to the factory default settings.
5. Re-install the network camera using one of the methods described in this document.

Further information

For further information, please see the AXIS 210/210A/211/211A User's Manual, which is available on the CD included in this package. Updated versions can be obtained from www.axis.com