AXIS 2411
Video Server

Administration Manual

About This Document

This manual is intended for administrators and users of the AXIS 2411 Video Server, and is applicable for software release 3.01 and up. It includes instructions for installing, using and managing the AXIS 2411 on your network. Previous experience of networking will be of use when installing and using this product. Later versions of this document will be posted to the Axis Website, as required. See also the product's online help, available via the Web-based interface.

Safety Notices Used In This Manual

Caution! - Indicates a potential hazard that can damage the product.

Important! - Indicates a hazard that can seriously impair operation.
Do not proceed beyond any of the above notices until you have fully understood the implications.

Intellectual Property Rights

Axis AB has intellectual property rights relating to technology embodied in the product described in this document. In particular, and without limitation, these intellectual property rights may include one or more of the patents listed at http://www.axis.com/patent.htm and one or more additional patents or pending patent applications in the US and other countries.

Legal Considerations

Camera 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.

Electromagnetic Compatibility (EMC)

This equipment generates, uses, and can radiate radio frequency energy, and if not installed and used in accordance with the instruction manual, may cause interference to radio communications. Shielded cables should be used to ensure compliance with EMC standards.

USA – This equipment has been tested and found to comply with the limits for a Class A 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.

Europe – CE This digital equipment fulfills the requirements for radiated emission according to limit B of EN55022/1994, and the requirements for immunity according to EN55024/1998 residential, commercial, and light industry.

Liability

Every care has been taken in the preparation of this manual; Please inform your local Axis office of any inaccuracies or omissions. Axis Communications AB cannot be held responsible for any technical or typographical errors and reserves the right to make changes to the product and manuals 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.

Trademark Acknowledgments

Acrobat, Adobe, Boa, Ethernet, IBM, Internet Explorer, LAN Manager, Linux, Macintosh, Microsoft, Netscape Navigator, OS/2, UNIX, Windows, WWW are registered trademarks of the respective holders. Java and all Java-based trademarks and logos are trademarks or registered trademarks of Sun Microsystems, Inc. in the United States and other countries. Axis Communications AB is independent of Sun Microsystems Inc.

Support Services

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 staff by logging in to your private support area
- visit the Axis Support Web at www.axis.com/techsup/

Warning! – This product contains a Lithium battery which is used for back up of the real time clock. This battery lasts more than 5-10 years. Study the warning notice carefully before replacing the battery. Do not replace or remove the battery unless needed! Danger of Explosion if battery is incorrectly replaced. Replace only with the same or equivalent type recommended by the manufacturer. Dispose of used batteries according to the manufacturer's instructions.

AXIS 2411 Administration Manual
Revision 1.0
Part No: 20576
Date: June 2003

This manual is applicable for software release 3.01 and up.

Table of Contents

Produktbeschreibung und Installationsanleitung

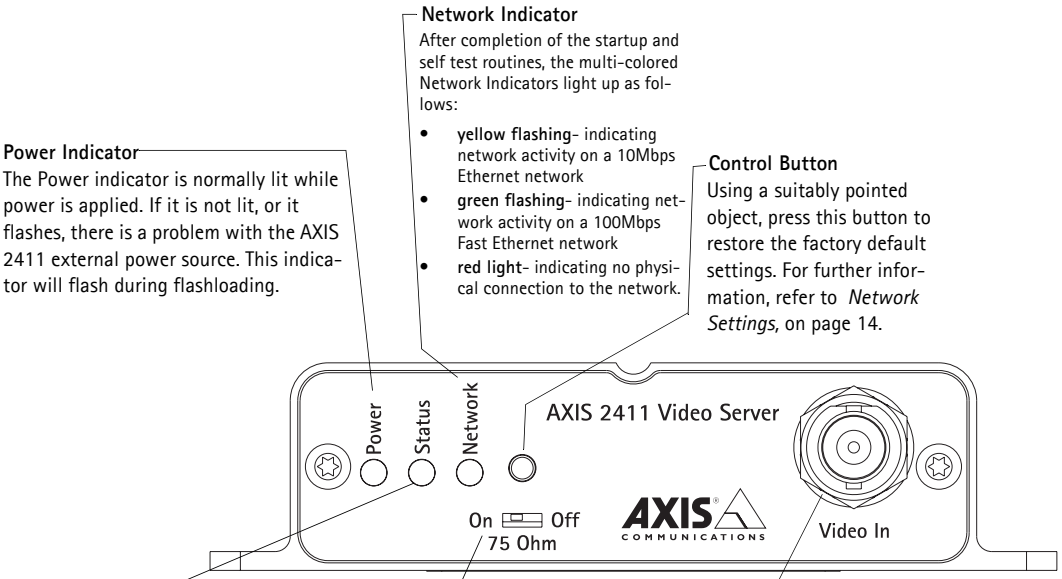
Description du Produit et Guide d'Installation

Descripción del producto y Guía de instalacíon

Product Description

Read the following information to familiarize yourself with the AXIS 2411, making particular note of where the connectors and indicators are located.

AXIS 2411 Front Panel



Network Indicator
After completion of the startup and self test routines, the multi-colored Network Indicators light up as follows:

- **yellow flashing**- indicating network activity on a 10Mbps Ethernet network
- **green flashing**- indicating network activity on a 100Mbps Fast Ethernet network
- **red light**- indicating no physical connection to the network.

Power Indicator
The Power indicator is normally lit while power is applied. If it is not lit, or it flashes, there is a problem with the AXIS 2411 external power source. This indicator will flash during flashloading.

Control Button
Using a suitably pointed object, press this button to restore the factory default settings. For further information, refer to *Network Settings*, on page 14.

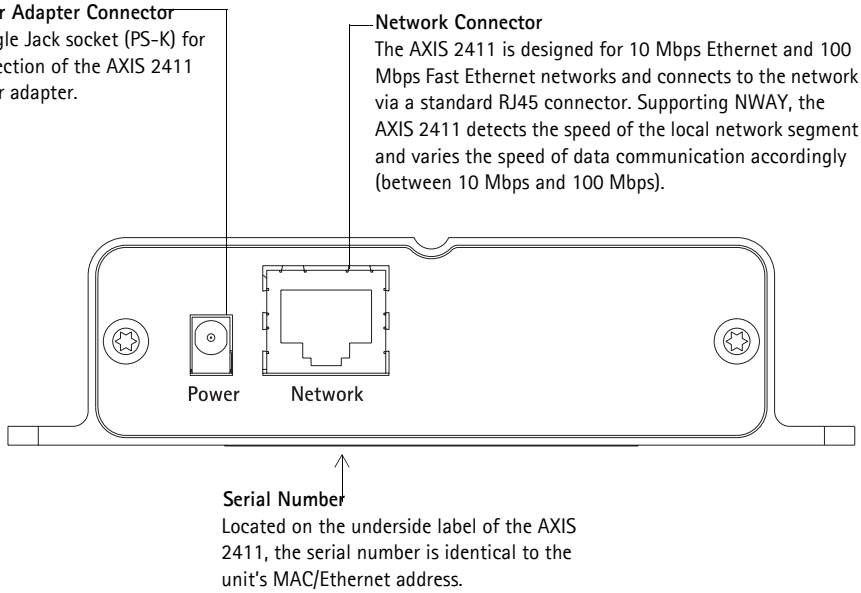
Status Indicator
The multi-colored status indicator defines the operational status of the server, as described below:

- **green** - the indicator flashes briefly and momentarily displays orange during the start-up and self-test routines; the indicator then displays green to indicate a healthy unit status.
- **red** - the indicator will display red only if a problem with the AXIS 2411 has occurred
- **orange** - flashes orange and green when resetting the factory default

DIP Switch
A single line termination for the supported video input. Units are shipped with the line termination enabled; that is, with the DIP switch positioned to the left (On). If the AXIS 2411 is to be connected in parallel with other equipment, disable the input termination by turning the DIP switch to the right-position (Off). Failure to do so can cause the picture quality to be impaired.

Video Input
Coaxial BNC connector supporting a single video source. The physical connection is made using a 75 Ohm coax video cable; with a recommended maximum length of 800 feet (250 meters).

AXIS 2411 Rear Panel



Hardware Inventory

Check the items supplied with your AXIS 2411 against the following list:

Item	Title/Variants	Quantity
Video Server	AXIS 2411	1
Warranty Document		1
Disk Media	AXIS Network Product CD v1.2 (or later)	1
Mount kit	Article nr. 18855	1
Power adapter (PS-K)	Europe UK Australia USA Japan	1
This document	AXIS 2411 Administration Manual v.1.0	1

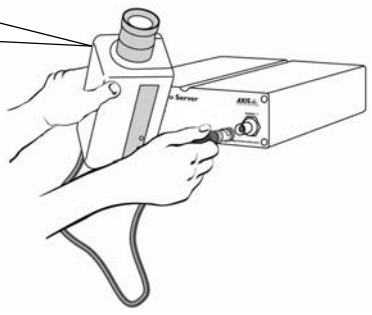
Note:

The power adapter for your AXIS 2411 is country-specific. Please check that the type you are using is correct.

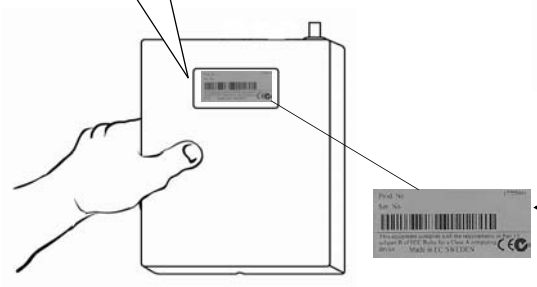
Installation

- Quick installation - Follow the instructions below to quickly install on an Ethernet network.
- Macintosh users - Please refer to *Notes for Macintosh Users*, on page 19.

❶Connect the video output of your camera(s) to the AXIS 2411 video port(s) using standard 75 Ohm coaxial video cable, terminated with a BNC-connector. If your camera is supplied with a standard phono-type (RCA) connector, use a BNC-to-RCA converter.



❷Note the Serial number on the underside of the unit. You need to know this to set the IP address.



Serial number same as MAC/Ethernet number; e.g. 00408c100086 = 00-40-8c-10-00-86

❸Using an appropriate method for your operating system, assign your product with a unique IP address from a computer on your network, as follows:

Windows only **– Start a DOS window and type these commands:**

Syntax:

arp -s <Server IP address> <Ethernet address> <my PC IP address>
ping -t <Server IP address>

Example:

arp -s 172.21.1.200 00-40-8c-10-00-86 172.21.1.193
ping -t 172.21.1.200

UNIX only **– Type this in your command line:**

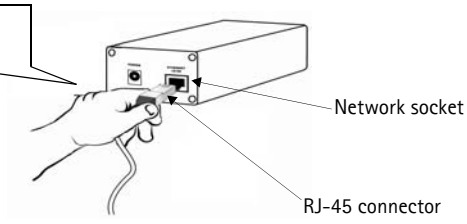
Syntax:

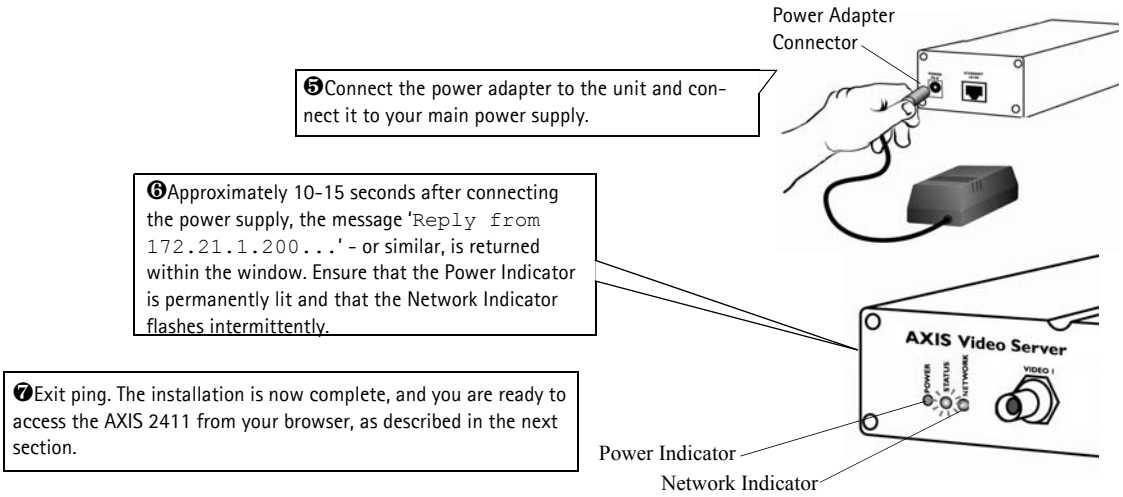
arp -s <IP address> <Ethernet address> temp
ping <IP address>

Example:

arp -s 172.21.1.200 00:40:8c:10:00:86 temp
ping 172.21.1.200

❹Connect an Ethernet cable to the AXIS 2411 and attach it to the network.





Note:

In some Unix systems, the arp command can be located in a directory that is not on the command path.

You will now see '**`Request timed out...`**' messages repeatedly returned in the window.

Verifying and Completing the Installation From Your Browser

❶Start your browser and enter the IP address of the AXIS 2411 in the location/address field.

Important!

Upon delivery, the AXIS 2411 is configured for open access (anonymous users). The unit is supplied with one pre-configured Administrator **user name: root** and **password: pass**. The Administrator password must be changed immediately to prevent unauthorized access to the Admin Tools and/or product images, as defined in the Security Settings.

Configuring the Video Server

After deciding on the application you wish to develop and having installed your AXIS 2411, the unit is now connected directly to a local area network.

This section describes how to configure the AXIS 2411 and is intended specifically for product *Administrators* – who normally have high-level privileges denied to ordinary *users*.

The AXIS 2411 is configured from a standard browser (Netscape 4.7 och 7.x Internet Explorer 5.x och 6.x and above), by using the **Administration Tools**.

Important!

To access the AXIS 2411 configuration pages, you must first set the IP address, as described in *Installation*, on page 7.

The Administration Tools

The Web-based Administration tools are displayed in an intuitive graphical user interface that allows simple point-and-click system configuration. How to access and use the tools is explained in the following pages.

Tip!

On-line help  is available on every **Admin** page of the AXIS 2411Web interface.
This information is of particular relevance when configuring the unit and should be used as a first point of reference for resolving any administration queries. The help system is stored internally in the unit.

Accessing the Tools

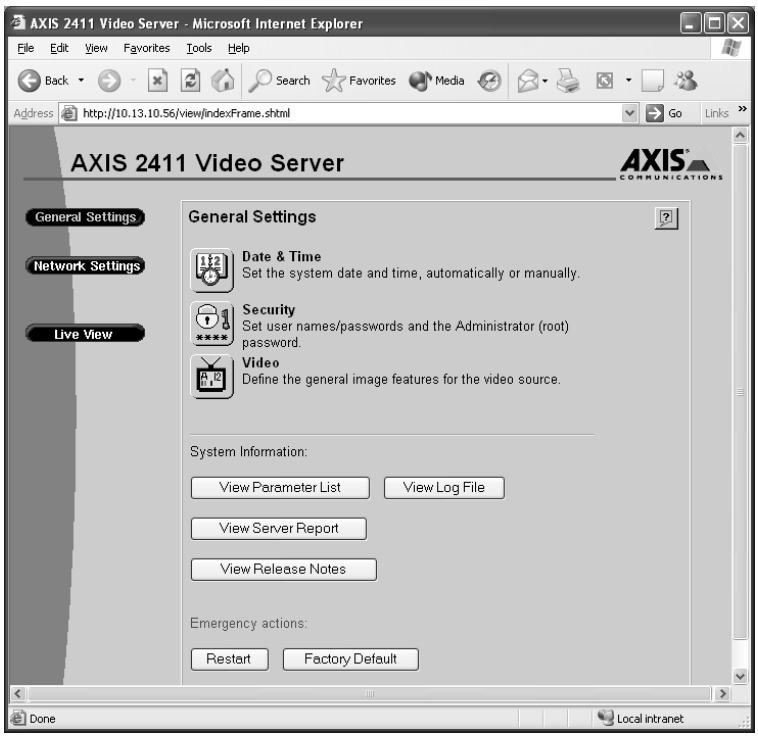
Follow the instructions below to access the Administration Tools from a browser:

1. Start the browser and enter the name or IP address of the AXIS 2411 in the location/address field.

Example!

```
http://172.21.1.200/
```

2. The **Application** page is now displayed. Click the **Admin** button to display the **Administration Overview** page and the *Administration Tools*.
3. The various components of the video server are shown as icons on the page. Simply click the desired component and configure it directly from here.



Important!

To enable the updating of images in Internet Explorer, set your browser to allow ActiveX controls and perform once-only installation of Axis' ActiveX component onto your workstation.

General Server Settings

Click the **Video Server** icon to display and/or edit the following settings:

Date and Time

Click the **Date and Time** icon to set the date and time, automatically, or manually. Automatic setting of the date and time requires you to either synchronize the time with that on your computer or, alternatively, to provide the IP address of an NTP server. To automatically adjust the time to reflect changes made by daylight saving, check the box provided. Click **Save** to register the settings with the Video Server.

Security

To prevent unauthorized use of the Video Server, access is password-protected and restricted to defined *Users* and *Administrators* **only**. *Administrators* have unrestricted access to the Administration Tools and can determine the registration of all other *users*.

As an *Administrator*, click the **Security** icon to either:

- Define or edit the *Administrator* password (the Administrator user name is permanently set to *root*, with the default password set to *pass*)
- Configure, add or delete user names and passwords
- Define the rights of different users: either **Admin** or **View**.

Video

Here you can define the general image features for the video source. With reference to the table below, configure the video to your requirements:

Header	Description
Date & time	Check to enable time display in the selected video source(s).
Text	Enable or disable the display of a text string in the selected video image. Type the text string that you want to display in the adjacent field.

Image

Color	Display *Color* or *Black and White* video images.
Resolution	Set the required resolution for your images.
Compression	Determines the compression factor (0-100) for the selected video source. Lower compression optimizes picture quality, but generates larger image file sizes, requiring greater network bandwidth and storage space.

Offset Adjustments

XOffset, YOffset	Enter values in these fields to change the horizontal and vertical synchronization for the image(s). This can be used to eliminate any black border surrounding the image.

Notes:

- Image control can also be achieved directly using CGI parameters in the image URL.
- Using CGI parameters embedded in a URL request will temporarily override any parameters defined in the Video dialog. For detailed CGI information, refer to the Axis Camera API, HTTP - Interface Specification, available from our website at www.axis.com

Important!

Upon delivery, the AXIS 2411 is configured for open access (anonymous users), with one pre-configured Administrator user name and password, set to *root* and *pass*, respectively. The Administrator password **should always be changed**, to prevent unauthorized access to the Admin Tools and/or product images. Furthermore, all Axis products are supplied with these defaults.

By default, the AXIS 2411 supports anonymous user access, which means that anybody on the Internet/intranet has access to the video images and Admin Tools from a browser. Entering at least one user name and password for an authorized user in the Security page will disable anonymous access, and thereafter only allow defined users. If the anonymous user service is satisfactory for your application, do not add any users. The Administrator password should, however, still be changed.

View Parameter List

The Parameter List provides a comprehensive list of all of the system parameters and their current settings. Click **View Parameter List** to display the list.

View Log File

System messages are recorded in a single log file and stored in product memory. Consequently, the file can be used for examining system events. The log file also serves as a useful diagnostic tool when attempting to resolve any problem that might occur. See also *Troubleshooting,* on page 21.

To display the latest server messages since the last *Restart* of the system, click the **View Log File** button.

View Server Report

This button shows important information about the server status and settings.

View Release Notes

This button opens a window showing the build information for the installed firmware.

Emergency Actions

In certain circumstances it may become necessary to perform a **Restart** of the AXIS 2411, or to return it to its **Factory Default** settings. Both of these actions can be performed by clicking the appropriate button on this page. Please see *Resetting to the Factory Default Settings,* on page 16, for more information.

Network Settings

Click **Network** to display, edit and refine the settings for:

- **TCP/IP** - used by the Video Server for transmitting data over the network.
- **DNS (Domain Name System)** - the Internet service used by the product for translating domain names into IP addresses.
- **SMTP (E-mail)** - this is the protocol used for notifying the administrator via e-mail when e.g. the ip address of the video server has changed in a DHCP network.
- **Miscellaneous** - set the network media and to restrict the bandwidth used by the product.

Configure the Network Settings with reference to the on-line help and the table below:

TCP/IP Parameters	Description
DHCP	Enable DHCP to allow centralized assignation of IP addresses. Requires a DHCP server on the network.
BOOTP	Enable the BOOTP protocol for setting the IP address automatically. For further information on using BOOTP, see *Other IP Setup Methods,* on page 18. If you intend to use the AXIS IP Installer, BOOTP must be enabled.
Internet address	Specifies the unique 32-bit IP address of your unit.
Default Router	Specifies the network router your video server will use.
Subnet Mask	If unsure what value to use, contact your system administrator. The most common value is 255.255.255.0
Host Name	If you are using a DNS server on your network (see below), this is usually the same as the assigned DNS Name.

DNS Parameters	Description
Domain Name	Enter the name of the domain your AXIS 2411 belongs to.
Primary DNS	Defines the IP address of the primary DNS server. This is used for identifying a computer by name instead of IP address.
Secondary DNS	The IP address of the secondary DNS server. This will be used if the primary DNS server is unavailable.

SMTP Parameters	Description
Primary Mail Server	Defines the server that provides your mail facilities.
Secondary Mail Server	Defines a secondary server that can provide mail facilities in the event of the primary server being unavailable.
Return Address	The reply address for e-mails sent by the AXIS 2411; that is, the name that will appear in the 'From' field of the dispatched e-mail.

Miscellaneous	Description
Select Media	This does not normally need to be changed, but if you have specific needs - due to the use of network switches or similar equipment, select the type of network media here.
Max Bandwidth	With the default set to unlimited, this parameter defines a restriction on the network bandwidth used by the video server; particularly useful for a connection to a busy network.
HTTP Port Number	This does not normally need to be changed, but may be, if you have particular requirements.

DHCP

DHCP (Dynamic Host Configuration Protocol) is a protocol that lets network administrators centrally manage and automate the assignment of IP addresses in an organization's network.

Important!

DHCP should only be enabled if you know which IP address the AXIS 2411 will get from the DHCP server, or if your version of DHCP can update a DNS server, which then allows you to access the AXIS 2411 by name. If DHCP is enabled and you cannot access the unit, you may have to reset it to the factory default settings (see page 16) and then perform the installation again (see page 7).

Dynamic IP Address Notification Settings

When the IP address changes by means beyond your control, such as by DHCP, you can choose to be notified of the change via HTTP, FTP or SMTP. Click the icon to display, edit and refine the settings for address notification.

Referring to the on-line help and the table below, configure the dynamic IP address notification settings.

Parameter	Description
HTTP	Enabling HTTP means the server will send an HTTP GET request to the specified URL. This can then easily be taken care of by a designated cgi-script, which registers the request by some means. Custom parameters can be used by entering them in the field provided. The fields User Name and Password, (located directly below the field for Custom Parameters) should be used if the script is password protected. If you need to pass a proxy server to connect to the URL for the host, provide your user information in the relevant fields. See also the On-line help for more information.
SMTP	Enabling SMTP will send an e-mail notification of any change in IP address. Enter the recipient's address and a sender's address, as well as any text you want to appear in the subject of the e-mail. Note that you must configure the mail server under Network Settings. See also the On-line help for more information.
FTP	Saves a notification file on an FTP server. Provide the connection details for the server and your user name and password. If there is a firewall between the server and the FTP server, it is recommended that Passive Mode is enabled. There are 3 levels of TXT Type to choose from; **Short** - the IP address only; **Extended** - multi-line file; and **HTML** - contains the same information as Extended, but includes HTML tags. See also the On-line help for more information.
TXT Field	Specify your own text to include in the notification.

Important!

The AXIS 2411 supports the two most common video standards - NTSC and PAL.
NTSC delivers 525 lines of resolution at 60 half-frames per second and is the common standard in the United States; whereas PAL delivers 625 lines at 50 half-frames per second and is the dominant video standard in Europe.

Resetting to the Factory Default Settings

In certain circumstances, it may be necessary to reset to the **Factory Default** settings for your AXIS 2411. This is performed by clicking **Admin =>Factory Default** in the web interface.

An alternative way to perform a factory default is by using the **Control Button**. The Control Button is located next to the three LED indicators.

Follow the instructions below to reset to the product factory default settings, using the Control button:

1. Switch off the AXIS 2411 by disconnecting the power cable.
2. Using a suitably pointed object, press in and keep the Control Button pressed.
   While the button is pressed, reconnect the power cable.
3. Keep the button pressed until the Status Indicator displays *yellow* (note that this may take up to 15 seconds). Now release the Control Button. When the Status Indicator changes to *green* (which may take up to 60 seconds) the AXIS 2411 will then have been reset to the original factory default settings.

Note:

Resetting to the factory default settings will cause all parameters (including the IP address) to be reset. Refer to *Installation*, on page 7, or *Other IP Setup Methods*, on page 18, for information on how to set the IP address.

Using the Video Server

This section is intended specifically for system *Users*; that is, personnel responsible for using the AXIS 2411 as part of an integrated surveillance system.

Important!

- Your system *Administrator* has installed the AXIS 2411 on your computer network, connected a video camera to the unit, and tailored the user functions and general look and feel of the system to meet your specific surveillance needs. Consequently, many of the functions and examples provided within the section may differ from those displayed in your system.
- Any deficiencies or shortcomings in your application should be referred to the system administrator, who has high-level privileges that are normally denied to ordinary users.

Accessing your Surveillance Image

The AXIS 2411 can be used with most operating systems; Windows, Linux, UNIX, Mac, and several others. You can access the AXIS 2411 from Netscape 4.7 och 7.x Internet Explorer 5.x och 6.x and above (see the note below).

Follow the instructions below to access your surveillance images:

4. Start your browser.
5. Enter the name or IP address of the AXIS 2411 into the **Location/Address** field (URL) of your browser:

Example!

```
http://172.21.1.200/
```

A video image is now displayed in your browser.

Note:

To enable the updating of images in Microsoft Internet Explorer, you must set your browser to allow ActiveX controls and perform a once-only installation of Axis' ActiveX component onto your workstation.

Appendix A - Other IP Setup Methods

As an alternative to the ARP command (described earlier in the Installation section of this manual), you can set the IP address for your AXIS 2411 using the following method:

Method	Operating Systems	Refer to...
AXIS IP Installer	Windows 95, 98, NT	*"Using AXIS IP Installer"* (page -19)
BOOTP Requiring a BOOTP daemon on your system, this method operates over the entire network. A request to an active daemon initiates a search of the boot table to find an entry matching the unit's Ethernet address. The daemon downloads the IP address to the device if a match is found.	UNIX	

Notes:

- Make sure the AXIS 2411 is powered up and connected to the network.
- IP Address: Acquire an unused IP address from your Network Administrator, and do NOT use the default IP address featured in the following examples when installing your AXIS 2411.
- Server Privileges: Although no special privileges are required for Windows 95/98/Me or XP (Home), you will need *Administrator* privileges for Windows NT/2000 and XP (Professional). UNIX systems require *Root* privileges.

Ethernet/MAC Address: The AXIS 2411 is pre-configured with a unique Ethernet/MAC Address based upon the serial number printed on the underside label of the unit; where the serial number typically follows the format 00-40-8c-xx-yy-zz. You need this address to complete the installation.

Notes for Macintosh Users

When using the AXIS 2411 on a Macintosh, please observe the following points:

- The AXIS 2411 has a default IP address of 192.168.0.90.
- Assign a temporary IP address to a Mac workstation in the same subnet (e.g. 192.168.0.90) and then connect to the server.
- Run the Installation wizard and set the desired IP address for the server.
- Reset the correct IP address for the Macintosh workstation.
- Changing the IP address for a Macintosh does not require a reboot.
- Currently there are limitations in the ActiveX Support in Internet Explorer running on the Macintosh. This results in problems when viewing live moving images. The recommended solution for viewing images from the AXIS 2411 on the Macintosh is to use Netscape Navigator.

Using AXIS IP Installer

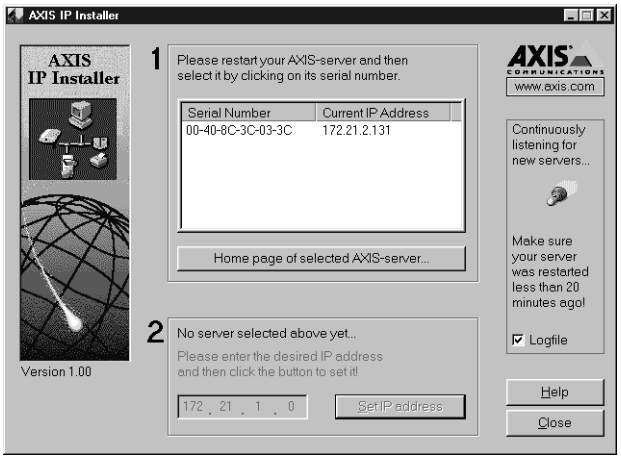
AXIS IP Installer is a program for Windosw 95, Windows 98 and Windows NT that is ideal for setting the IP addresses for multiple Axis networking products. Allowing you to conveniently access the home page of any Axis device connected to your network, this freely distributed software is available for download from the Axis Website at www.axis.com

Installing AXIS IP Installer:

1. Download the latest version of AXIS IP Installer onto your desktop and run **Setup_IPInstaller.exe** to start the installation.
2. The AXIS IP Installer setup dialog is displayed on the screen.
3. Follow the instructions as they appear. Click **Finish** to complete the installation.

Setting the IP Address with AXIS IP Installer:

1. Run **AXIS IP Installer** from the **Start** menu. The **AXIS IP Installer** dialog is displayed on the screen.



2. Restart your AXIS 2411.
3. Select the serial number of your AXIS 2411 in the list. The serial number is identical to the unit's Ethernet address.
4. Enter the IP address. Click **Set IP address**. The IP address will now be set.
5. To access the home page of the AXIS 2411, click **Home page of selected Axis-server...** You can now configure the AXIS 2411 to your requirements.
6. Click **OK** to exit the program.

For more help during the installation of the IP address, click **Help** or use the **F1** key.

Appendix B - Troubleshooting

This appendix provides useful information to help you to resolve any difficulty you might have with your AXIS 2411. Symptoms, possible causes and remedial actions are provided in a quick reference table.

Checking the Firmware

One of your first actions when attempting to solve a problem should be to check the firmware version currently installed. An updated version may contain a correction that fixes your particular problem. For more information, please see *Updating the Firmware*, on page 25.

Support

If you cannot solve your problem after reading the information in this appendix or after referring to the AXIS 2411 FAQ, you can pass the problem to the AXIS support desk. To help us help you resolve your problems expediently, please be sure to provide the following information:

- a brief description of the problem
- the Server Report
- the log file
- if relevant, an example of a poor image.

Server Report

The server report contains important information about the server and its software, as well as a list of the current parameters.

The Log File

The AXIS 2411 log file records events within the unit and can prove a useful diagnostic tool when attempting to resolve any problems that might occur.

Viewing the File

To display the latest log entries since the last *Restart* of the system:

1. Click **Admin** in the graphic interface.
2. Click the **View Log File** button. All Video Server commands executed since the last *Restart* of the system are displayed in a separate window.

Alternatively, get a copy of the log file by typing the following command directly into the location/Address field (URL) of your browser:

```
http://<servername>/support/messages
```

The log file can be read in any text editor and will look something like this:

```
Jan  1 00:01:29 (none) syslogd 1.3-3: restart.
Jan  1 00:01:29 (none) parhand[17]: Starting.
Jan  1 00:01:29 (none) sh: Firmware release: AXIS 2411 video Server 3.00
Jan  1 00:01:29 (none) sh: Network configuration for AxisProduct
Jan  1 00:01:29 (none) sh: IP: 172.21.1.200 MAC: 00:40:8C:18:16:F2
Jan  1 00:01:29 (none) sh: Netmask: 255.255.0.0 Broadcast: 10.13.255.255
Jan  1 00:01:29 (none) sh: Network: 172.21.1.60 Gateway: 10.13.1.1
Jan  1 00:01:30 (none) camd[22]: camd $Revision: 1.69 $ starting up
Jan  1 00:01:30 (none) iod[23]: iod: Starting 13:26:34  $Revision: 1.22.2.1 $
Jan  1 00:01:32 (none) dstd[51]: Starting.
Jan  1 00:01:32 (none) ssid[54]: "Starting" 13:23:40  $Revision: 1.14 $  0
```

Typical AXIS 2411 Log File

PINGing Your IP Address

By sending a packet to the specified address and waiting for a reply, the PING utility can determine whether a specific IP address is accessible. It also provides a particularly useful method for confirming addressing conflicts with your AXIS 2411 on the network.

Having disconnected your AXIS 2411, follow the instructions below in association with *Symptoms, Possible Causes and Remedial Actions*, on page 23, and run the PING utility to troubleshoot TCP/IP problems on your network:

1. Start a Command window and type **`ping x.x.x.x`**, where **`x.x.x.x`** is the IP address of the AXIS 2411.
2. If you receive the reply `destination host unreachable`, then the AXIS 2411 is not accessible on your subnet. You must obtain a new IP address and reinstall the unit.
3. If this does not solve the problem, disconnect the AXIS 2411 from the network and run PING again. See the table below for an interpretation of the results.

PING Reply	Interpretation and recommendation
Reply from <IP address>: bytes = 32; time = 10 ms.....	The IP address is already used and cannot be used again. You must obtain a new IP address.
Request timed out	This IP address is not used and is available for use with your AXIS 2411. If you already installed the unit using this IP address, the installation may have failed. Reinstall the unit. Also check all cabling.

Symptoms, Possible Causes and Remedial Actions

Symptoms	Possible causes	Remedial actions
The AXIS 2411 cannot be accessed from a browser.	The IP address is already being used by another device.	Run the PING utility (as described above) and follow the appropriate recommendations.
	The IP address is located on a different subnet.	Run the PING utility (as described in *PINGing Your IP Address,* on page 22). If you get "no response" or similar, the diagnosis is probably correct. In Windows, check that the IP address for your AXIS 2411 is on the same subnet as your workstation. Exactly how this is done varies from one version of Windows to another. See Windows' help for more information. If your AXIS 2411 and your workstation are on different subnets, you will not be able to set the IP address. Contact your network administrator.
	In Windows 95, the ARP table was empty when you tried to set the IP address.	In Windows 95, the ARP command cannot be used if you have an empty ARP table. If the table is empty, re-install the product ensuring that the IP address for your own PC is also used. Type `arp -a` to view the ARP table. If it is empty, you must ping an existing unit on your network before you can download the IP address to the AXIS 2411, using ARP. **Note:** The AXIS IP Installer is an easy-to-use alternative for installing the unit.
	The IP address has changed.	Check that there is no DHCP server running on the network and disable BOOTP in the video server. Note: The AXIS IP Installer will not work with DHCP.
	Other networking problems.	Test the network cable by connecting it to some other network device and then PINGing that device from your workstation. Test the unit's network interface by connecting a local computer to the unit, using a standard *Crossover (hub-to-hub) Cable.* If the above actions do not resolve the problem, the AXIS 2411 may be faulty. In this case, report your findings to your local distributor.
	A programming script is locking the unit.	Restore the unit to the factory default settings.
The Power indicator is not constantly lit.	Faulty power supply.	Verify that you are using an Axis PS-K power adapter.
The Network indicator displays red.	Faulty cabling.	See *Other networking problems*, above.
The Status indicator is flashing red rapidly.	Hardware failure.	Contact your Axis dealer.
Your AXIS 2411 works locally, but not externally.	Firewall protection.	Check the Internet firewall with your system administrator.
	Default routers required.	Check if you need to configure the default router settings.

Symptoms	Possible causes	Remedial actions
Bad snapshot images.	Display incorrectly configured on your workstation.	In Display Properties, configure your display to show at least 65000 colors, i.e. at least 16-bit. Using only 16 or 256 colors on your display will produce dithering artifacts in the image.
Incorrect exposure in images.	Incorrect line termination.	If the AXIS 2411 is to be connected in parallel with other equipment, disable the input termination by turning the corresponding DIP switch to the right-position (OFF). Inversely, when not using other equipment, set the Termination dip-switch to ON (Left= default setting).

Note:

If you still have a problem after reading this information, please contact your reseller or check the FAQ on the Axis Website at www.axis.com

Appendix C - Updating the Firmware

The AXIS 2411 firmware is stored in Flash memory. This memory is provided by a silicon chip that, just like any other ROM device, retains data content even after power is removed. Flash memory is unique because it allows its data to be erased and re-written. This means you can install firmware updates for your AXIS 2411 as they become available - without having to replace any parts. New firmware can be simply loaded into the AXIS 2411 over the network.

Obtaining Updated firmware

The latest version of the AXIS 2411 firmware is available free of charge from the Axis website at www.axis.com or from your local distributor.

Updating the firmware

The AXIS 2411 Flash memory is updated over the network using FTP. See the detailed instructions supplied with each new firmware release.

Important!

- Always read the upgrade instructions available with each new release, before updating the firmware.
- Upgrading normally takes between 30 seconds and 10 minutes, although it can take longer. After starting the process, you should always wait at least 20 minutes before power-cycling the AXIS 2411 - even if you suspect the procedure has failed.
- In controlled environments, flash memory updates provide a very safe way of updating the firmware. However, flash products can become damaged if the update is not performed correctly. Your dealer reserves the right to charge for any repair attributable to faulty updating by the user.

Appendix D - Customizing The Video Server

Modifying the File System

The Linux-based operating system and flash memory file system make it possible for advanced users and application developers to customize the AXIS 2411 by adding additional files to the read-write area of the flash memory.

Important!

- Modification of the flash file system is NOT supported by Axis. In practice, this means that Axis will not answer questions relating to custom script or Web page development, but merely wishes to inform potential application developers of the possibilities afforded by the Linux-based file structure of the AXIS 2411.
- When attempting to modify the product, you may inadvertently create a problem that will require you to return the AXIS 2411 to its factory default settings. At worst, you may even cause permanent damage to the unit, rendering it unusable. Consequently, Axis strongly recommends that inexperienced users DO NOT modify the file system.

Although modification of the file system is not supported, the Axis web at www.axis.com does maintain various documents designed to assist third-party development. These include detailed information such as the Axis Camera API, HTTP-Interface Specification

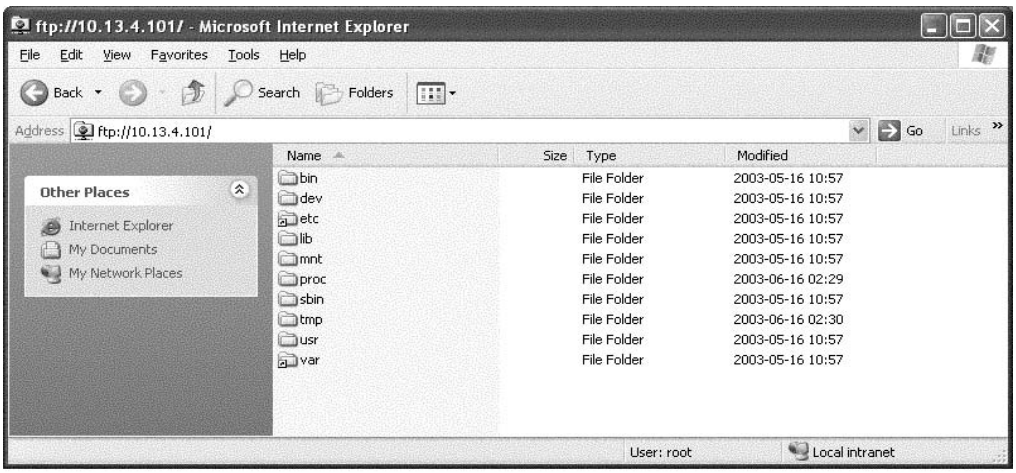
Configuring using FTP

As an alternative to configuring the AXIS 2411 using a browser, the configuration parameters of your unit can be modified using the File Transfer Protocol (FTP).

FTP is supported by most operating environments and is a useful method for quickly downloading standard pre-configurations to one or more video servers.

Here's how to access the video server via ftp:

1. In the Address/Location field of your browser, type:
   `ftp://<video server ip address>`
2. Press **Enter:**



Example using ip address 10.13.4.101

3. Enter the user name and password to log in:
   Default user name: **root**
   Default password: **pass**
4. You will find useful configuration files in these catalogues:
   etc/sysconfig
   etc/network

Custom Web Pages

The AXIS 2411 contains a re-writable flash memory file system that allows some directories and files to be changed by the *root* user, using FTP. This strictly non-supported product functionality, makes it possible for advanced users and application developers to add their own Web pages, scripts, and other files to the Axis product.

Customizing Procedures

The existing Administration pages are stored in a compressed read-only area of the file system. If you intend to try changing them you must adhere strictly to the instructions provided here and ensure that you DO NOT inadvertently change any files other than those featured in this section. Failure to comply with this notice may render your product unusable.

All files stored in the `/etc/httpd/html` directory are available through the product Web server in the virtual directory `/local/`. The URL to resident pages in the `/etc/httpd/html` directory is `http://IP/local/<filename>.htm`.

Editing and Storing Your Web pages

Follow the instructions below to create and save customized pages to the AXIS 2411:

1. Using a html editor, create your html file and store it on your local PC hard drive.
2. Now use ftp to upload the file to the AXIS 2411. Enter the following on the command line:

```
ftp <server ip address >
```

Example!

```
ftp 172.21.1.200
```

3. Log on as `root` with the root password `pass`.
4. Change to the correct directory within the AXIS 2411 by entering the following command:

```
cd /etc/httpd/html
```

5. For binary storage of the files (not absolutely necessary, but good practice), type `bin`.
6. Upload your html files by entering:

```
put <filename.html>
```

7. Start your browser and view the Web pages you uploaded, by entering the following URL in the location/Address field:

```
http://<server ip address>/local/<filename.html>
```

Example!

```
http://172.21.1.200/local/index.html
```

The images are now updated in your browser.

8. Enter `bye` in the command window to exit the ftp program.

Note:

You can change the html files as and when you like, but remember that the available flash memory is limited.

Creating a New Home Page

Having created and stored your new custom Web pages in product memory, you then proceed to assign one of these pages as your default Home page in the AXIS 2411, as described below:

Caution!

Adding a new Web page to your AXIS 2411 is not something that should be undertaken lightly. Remember: Axis does not support the personalization of product Web pages and strongly recommends that inexperienced users DO NOT perform such modifications.

1. Start a new ftp session to the AXIS 2411, by entering:

   ```
   ftp <camera ip address >
   ```

2. Type `bin`
3. Navigate your way to the appropriate directory, entering:

   ```
   cd /etc/httpd/conf/
   ```

4. Fetch the `boa.conf` file, by typing:

   ```
   get boa.conf
   ```

5. Edit `boa.conf` and add the following line to the end of the file:

   ```
   Alias /index.html /etc/httpd/html/index.html
   Alias / /etc/httpd/html
   ```

   This will create an alias to your own "homemade" `index.html` file stored in the `/etc/httpd/html/` directory and redirect access to it. Replace the edited `boa.conf` in the video server, by using the `Put` command.

Note:

As an alternative to the above, you might like to edit the line starting with `Document Root` so that it points directly to the local directory. However, after doing this you will then be unable to access the original Home pages - so be warned!

6. After making these changes, you will not be able to automatically access the default index page. Instead you must type in the complete URL to access it:

```
http://IP#/view/indexFrame.shtml
```

Appendix E - Technical Specifications

System Requirements - The AXIS 2411 uses the standard Internet TCP/IP suite of protocols and can be used with most operating systems: Windows, Linux, UNIX, Mac. etc. The only software required is Netscape 4.7 och 7.x Internet Explorer 5.x och 6.x and above.

Installation - Physical network connection using RJ-45 twisted pair cable. Installs directly to NTSC or PAL video cameras using BNC connectors. Use as a standalone system or as an add-on to existing CCTV systems.

Management - Remote configuration and status using Web-based tools.

Compression - Motion-JPEG, as well as single snapshot JPEG images. User-controlled compression level.

Video Features - Time stamp and text overlay. Color control (B/W or color).

Video Input - Single BNC composite video connection with 75 Ohm/Hi Z termination, with PAL or NTSC auto-sensing.

Networking - 10baseT Ethernet or 100baseTX Fast Ethernet, TCP/IP, HTTP, FTP, SMTP, NTP, ARP, BOOTP.

Security - Multi-user password protection.

Operating Conditions: - Temp: 40^{o} to 125^{o}F (5^{o} to 50^{o}C), Humidity: 20-80% RHG .

Approvals EMC

- FCC Class B.
- CE : EN55022/1994, EN55024/1998.

Approvals - Safety: - EN60950, UL, CSA.

Metrics: - Height: 27mm (1.1 inch) Width: 112mm (4.4 inch) Length: 130mm (5.1 inch) Weight: 0,31 kg (0,68 lbs), excluding Power adapter.

Hardware - ARTPEC-1 compression chip, ETRAX-100 LX, 32-bit RISC, 100 MIPS CPU, 16MB SDRAM, 4MB FLASH PROM.

Power - External power adapter 9V DC, 9W, 7-15V AC, min 10VA, 7-20V DC, min 7W.

Complimentary Software - AXIS Camera Control (ActiveX component software required for Microsoft Internet Explorer - installed automatically on first use).

Axis Chipset Technology – Axis renowned chipset technology is built upon an open architecture that is streamlined to provide device connectivity independent of any file server.

The AXIS 2411 is driven by a powerful AXIS ETRAX 100 LX 32-bit RISC processor and includes the industry's first dedicated digital video surveillance compression chip - the AXIS ARTPEC-1.

Performance – The AXIS 2411 delivers the following file sizes:

NTSC			PAL		
Resolution	File size (kb)	Max fps*	Resolution	File size (kb)	Max fps*
704 x 480**	7 - 150	10	704 x 576**	8.5 - 180	8
352 x 240	1.4 - 40	30	352 x 288	1.7 - 50	25
176 x 112	0.3 - 10	30	176 x 144	0.4 - 12	25

* Maximum performance with single user and one AXIS 2411 in use.

** Interlaced image

All specifications are subject to change without prior notice.

Produktbeschreibung

Machen Sie sich anhand der folgenden Informationen mit dem AXIS 2411 vertraut, und beachten Sie insbesondere die Position der Anschlüsse und Anzeigen.

AXIS 2411 Bedienfeld, Ansicht von vorne

Die Statusanzeige (Status)

Die mehrfarbige Statusanzeige gibt den Betriebsstatus des Servers wieder, wie im folgenden beschrieben:

- Grün – Die Anzeige blinkt kurz und leuchtet während der Start- und Selbsttestroutinen orange, anschließend deutet die grüne Anzeige auf fehlerfreien Status der Einheit hin.
- Rot – Die Anzeige leuchtet nur rot, wenn ein Fehler am AXIS 2411 aufgetreten ist.
- Orange – Beim Zurücksetzen auf die werkseitigen Standardeinstellungen blinkt die Anzeige orange.

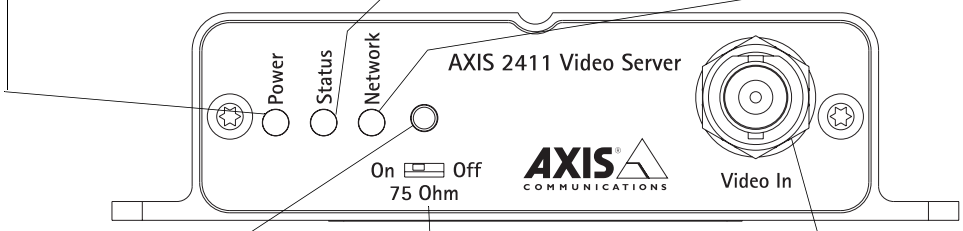
Netzwerkanzeige (Network)

Im Anschluss an die Start- und Selbsttestroutinen blinkt die mehrfarbige Netzwerkanzeige. Die Farben haben folgende Bedeutung:

- Gelb – Zeigt Aktivität in einem 10Mbit/s Ethernet-Netzwerk an.
- Grün – Zeigt Aktivität in einem 100Mbit/s Fast-Ethernet- Netzwerk an.
- Rot – Zeigt fehlende physische Verbindung zum Netzwerk an.

Betriebsanzeige (Power)

Diese Anzeige leuchtet, wenn das Gerät mit Strom versorgt wird. Leuchtet die Anzeige nicht oder blinkt sie, liegt ein Problem am AXIS 2411 oder an seinem Netzteil vor.



Kontroll-Taste

Zum Zurücksetzen auf die werkseitigen Standardeinstellungen drücken Sie diese Taste mit einem geeigneten spitzen Gegenstand.

DIP-Schalter

Ein für jedes unterstützte Videoein gabegerät passender Leitungsabschluss (single line termination). Werkseitig ist der Leitungsabschluss für jedes unterstützte Videoeingabegerät aktiviert, d. h. der DIP-Schalter ist nach links gedrückt (On).

Wenn der AXIS 2400+ parallel mit anderen Geräten angeschlossen werden soll, deaktivieren Sie den jeweiligen Eingabeabschluss, indem Sie den DIP-Schalter nach rechts drücken (Off). Andernfalls kann die Bildqualität beeinträchtigt werden.

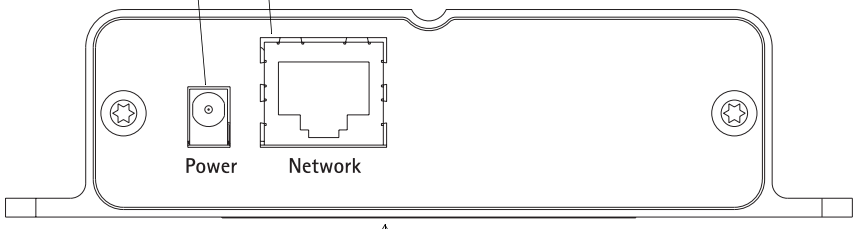
Videoeingabegerät

Koaxial-BNC-Stecker, der eine einzelne Videoquelle unterstützt. Für die physische Verbindung wird 75-Ohm-Koaxialvideokabel mit empfohlener Maximallänge von 250m verwendet.

AXIS 2411 Bedienfeld, Ansicht der Rückseite

Anschluss für Netzkabel
Eine Einzel-Steckdose (PS-K) zum Anschließen des AXIS 2411-Netzkabels.

Netzwerkanschluss
Der AXIS 2411 ist für 10-MBit/s-Ethernet- und 100-MBit/s-Fast-Ethernet-Netzwerke konzipiert und wird über einen standardmässigen RJ45-Stecker mit dem Netzwerk verbunden. Durch Unterstützung von NWAY ermittelt der AXIS 2411 die Übertragungsgeschwindigkeit des Segments im lokalen Netzwerk und stimmt die Datenkommunikation darauf ab (zwischen 10 Mbit/s und 100 Mbit/s).



Seriennummer
Die Seriennummer befindet sich auf dem Etikett auf der Unterseite des AXIS 2411 und ist identisch mit der MAC/Ethernet-Adresse der Einheit.

Lieferumfang

Vergleichen Sie die mit dem AXIS 2411 gelieferten Komponenten mit folgender Liste:

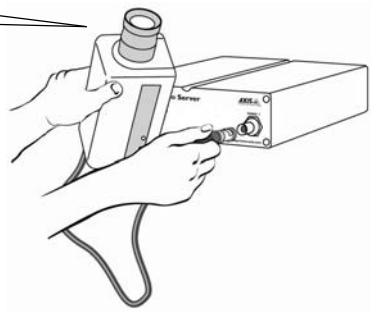
Teil	Bezeichnung	Quantität	Teil	Bezeichnung	Quantität
Video-Server	AXIS 2411	1	Netzteil (PS-K)	Europa Großbritannien Australien USA Japan	1
Garantiekarte		1			
Dieses Dokument	AXIS 2411 Administration Manual v1.0	1	CD	AXIS Network Product CD v1.2 (oder später)	1
Mount kit	18855	1			

Hinweis: Das mit dem AXIS 2411 ausgelieferte Netzkabel ist landesspezifisch. Bitte überprüfen Sie, ob Sie das richtige Netzkabel verwenden.

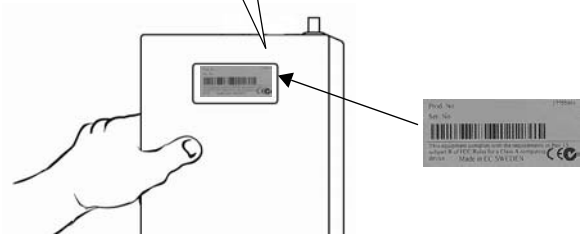
Installation

- Quick Installation - Befolgen Sie die nachfolgenden Anweisungen.
- Macintosh Anwender- bitte lesen Sie *Notes for Macintosh Users* auf Seite page 19.

❶Schließen Sie das Videoausgabegerät Ihrer Kamera(s) mit 75-Ohm-Koaxial-Standardvideokabeln mit BNC-Steck verbindern an den/die Videoanschluss/-anschlüsse des AXIS 2411 an. (Verwenden Sie einen BNC-in-RCA-Konverter, wenn Ihre Kamera standardmäßig mit einem Phono (RCA)-Stecker ausgestattet ist.)



❷Notieren Sie sich die auf der Unterseite der Einheit angegebene Seriennummer. Sie benötigen sie zum Konfigurieren der IP-Adresse.



Seriennummer identisch mit MAC/Ethernet-Nummer; z. B. 00408c100086 = 00-40-8c-10-00-86

❸Weisen Sie Ihrem Produkt mithilfe des für Ihr Betriebssystem geeigneten Verfahrens eine eindeutige IP-Adresse von einem Computer in Ihrem Netzwerk aus zu. Gehen Sie folgendermaßen vor:

Windows – Rufen Sie ein DOS-Fenster auf, und geben Sie folgende Befehle ein:

Syntax:

```
arp -s <Server-IP-Adresse> <Ethernet-Adresse> <eigene PC-IP-Adresse>
ping -t <Server-IP-Adresse>
```

Beispiel:

```
arp -s 172.21.1.200 00-40-8c-10-00-86 172.21.1.193
ping -t 172.21.1.200
```

UNIX – Geben Sie die folgenden Befehle in die Befehlszeile ein:

Syntax:

```
arp -s <IP-Adresse> <Ethernet-Adresse> temp
ping <IP-Adresse>
```

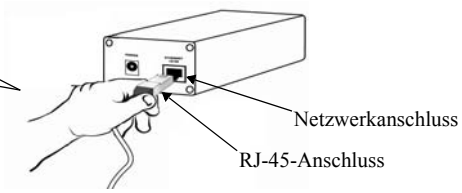
Beispiel:

```
arp -s 172.21.1.200 00:40:8c:10:00:86 temp
ping 172.210.10.200
```

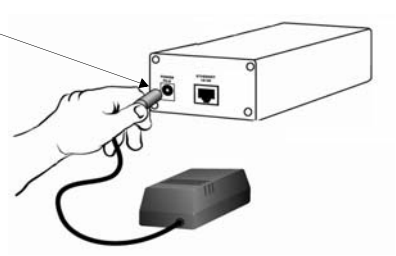
Hinweis: Bei einigen Unix-Systemen befindet sich der arp-Befehl nicht in einem Verzeichnis des Befehlspfads.

Es werden wiederholt Meldungen vom Typ **`"Zeitüberschreitung für Anforderung ..."`** im DOS-Fenster angezeigt.

❹ Schließen Sie ein Ethernet-Kabel an Ihren AXIS 2411 an, und verbinden Sie es mit dem Netzwerk.

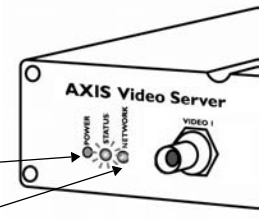


❺ Schließen Sie das externe Netzteil an die Einheit an, und verbinden Sie es mit Ihrem lokalen Stromnetz.



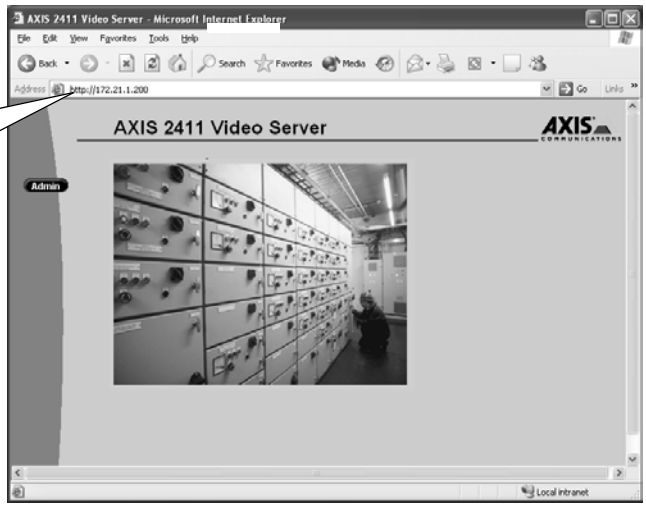
❻ Etwa 10 - 15 Sekunden nach dem Anschluss an das Stromnetz wird die Meldung "`Antwort von 172.21.1.200...`" (oder eine ähnliche Meldung) im DOS-Fenster angezeigt. Vergewissern Sie sich, dass die Betriebsanzeige konstant leuchtet und die Netzwerkanzeige in bestimmten Abständen blinkt.

❼ Drücken Sie Strg+C, um den Ping-Befehl zu beenden. Die Installation ist jetzt abgeschlossen, und Sie können von Ihrem Web-Browser aus auf den AXIS 2411 zugreifen. Dies wird im folgenden Abschnitt beschrieben.



Überprüfen und Abschließen der Installation von Ihrem Browser aus

❶Starten Sie Ihren Web-Browser und geben Sie die IP-Adresse Ihres AXIS 2411 in die Adresszeile ein, z. B. 172.21.1.200, wie nachfolgend gezeigt.



Wichtig!

Bei Lieferung ist der AXIS 2411 auf offenen Zugriff eingestellt (anonyme Benutzer). Das Gerät wird mit vorkonfiguriertem Benutzernamen und Kennwort geliefert, die auf "root" und "pass" eingestellt sind. Der Benutzername muss sofort geändert werden, um nicht-autorisierten Zugriff auf Admin Tools und/oder Bilder zu verhindern, wie in den Sicherheitseinstellungen erklärt.

Werkseitige Standardeinstellungen

Unter bestimmten Umständen kann es erforderlich sein, die **werkseitigen Standard**einstellungen Ihres AXIS 2411 wiederherzustellen. Klicken Sie dazu auf die entsprechende Schaltfläche in den **Verwaltungsprogrammen**, *oder* drücken Sie die **Kontroll-Taste**.

Befolgen Sie die Anweisungen, um die werkseitigen Standardeinstellungen mithilfe der Kontroll-Taste wiederherzustellen:

1. Schalten Sie den AXIS 2411 aus, indem Sie das Netzkabel ziehen.
2. Drücken Sie mit einem geeigneten spitzen Gegenstand die Kontroll-Taste und halten Sie sie gedrückt, während Sie das Netzkabel wieder einstecken.
3. Halten Sie die Kontroll-Taste gedrückt, bis die Statusanzeige *gelb* leuchtet (dies kann bis zu 15 Sekunden dauern). Lassen Sie die Kontroll-Taste los. Die Statusanzeige leuchtet nach max. 1 Minute *grün*, und im AXIS 2411 sind jetzt wieder die werkseitigen Standardeinstellungen geladen.

Hinweis:

Beim Wiederherstellen der ursprünglichen Standardeinstellungen werden alle Parameter, inklusive IP-Adresse, zurückgesetzt.

Description du produit

Lisez les informations ci-dessous pour vous familiariser avec le serveur AXIS 2411, en portant particulièrement attention à l'emplacement des connecteurs et des voyants.

Panneau avant du serveur AXIS 2411

Voyant d'état

Le voyant d'état multicolore définit l'état opérationnel du serveur, comme cela est décrit ci-dessous :

- vert – le voyant clignote brièvement et s'affiche momentanément en orange pendant les sous-programmes de mise en route et d'auto-test ; il doit ensuite normalement s'afficher en vert pour indiquer un état d'unité correct.
- rouge – le voyant ne s'affiche en rouge qu'en cas de problème du serveur AXIS 2411.
- orange – clignote avec une couleur orangée lors de la réinitialisation du serveur aux paramètres d'usine par défaut.

Voyant réseau

Après exécution des sous-programmes de mise en route et d'auto-test, le voyant réseau multicolore clignote de manière indépendante, comme cela est indiqué ci-dessous :

- jaune – indique une activité réseau sur un réseau Ethernet 10 Mbit/s
- vert – indique une activité réseau sur un réseau Fast Ethernet 100 Mbit/s
- rouge – indique l'absence de connexion physique avec le réseau (clignote pas).

Entrée vidéo

Connecteur BNC coaxial supportant une seule source vidéo. La longueur maximale conseillée pour une connexion physique effectuée avec du câble vidéo coax, 75 Ohms, est de 250 mètres.

Bouton Control

En vous aidant d'un objet pointu adéquat, vous pouvez appuyer sur ce bouton pour restaurer les paramètres d'usine par défaut.

Commutateur DIP

Terminaison de ligne simple pour la entrée vidéo supportée. Toutes les unités sont fournies avec la terminaison de ligne activée, c'est-à-dire avec le commutateur DIP en position à gauche (On).

Si le serveur AXIS 2411 doit être connecté en parallèle avec un autre équipement, désactivez la terminaison d'entrée en plaçant le commutateur DIP correspondant en position à droite (Off). Le non respect de cette consigne peut entraîner une dégradation de la qualité de l'image.

Voyant d'alimentation

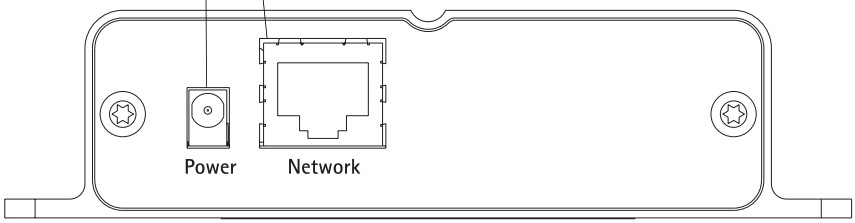
Il est normalement allumé lorsque le système est sous tension. S'il est éteint ou s'il clignote, il signale une défaillance de la source d'alimentation externe du serveur AXIS 2411.

Panneau arrière du serveur AXIS 2411

Connecteur d'alimentation
Une fiche monojack (PS-K) pour la connexion de l'alimentation du serveur AXIS 2411.

Connecteur réseau

Le serveur AXIS 2411 est conçu pour les réseaux Ethernet 10 Mbit/s et Fast Ethernet 100 Mbit/s et se connecte au réseau à l'aide d'un connecteur RJ-45 standard. Compatible NWAY, le serveur AXIS 2411 détecte la vitesse du segment de réseau local et adapte la vitesse des communications de données en conséquence (entre 10 Mbit/s et 100 Mbit/s).



Numéro de série
Situé sur l'étiquette que vous trouverez sous le serveur AXIS 2411, le numéro de série est identique à l'adresse MAC/Ethernet de l'unité.

Liste du matériel

Vérifiez les éléments fournis avec votre AXIS 2411 par rapport à la liste suivante:

Elément	Titre/Modèles	Quantité	Elément	Titre/Modèles	Quantité
Serveur vidéo	AXIS 2411	1	PSU (PS-K)	Europe Royaume-Uni Australie Etats-Unis Japon	1
Garantie	-	1			
Support disque	AXIS Network Product CD v1.2 (ou suivante)	1	Ce document	AXIS 2411 Administration Manual v1.0	1
Mount kit	18855	1			

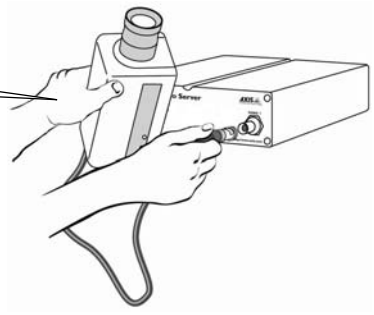
Remarque:

Le bloc d'alimentation fourni avec votre serveur AXIS 2411 est propre à chaque pays. Assurez-vous que le type d'alimentation que vous utilisez est correct. Reportez-vous à la Liste du matériel.

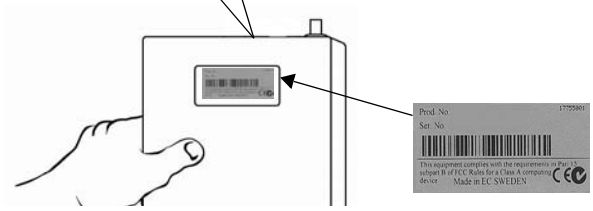
Installation sur un réseau

Utilisez le guide ci-dessous pour installer rapidement votre serveur AXIS 2411 dans un réseau Ethernet:

❶Connectez la sortie vidéo de votre caméra au port vidéo du serveur AXIS 2411 à l'aide d'un câble vidéo coaxial 75 ohms standard, terminé par un connecteur BNC (utilisez un convertisseur BNC-RCA si votre caméra est fournie avec un connecteur de type audio standard (RCA)).



❷Notez le numéro de série sous l'unité. Vous en aurez besoin pour définir l'adresse IP.



Numéro de série identique au numéro MAC/Ethernet ; par ex. 00408c100086 = 00-40-8c-10-00-86

❸ En utilisant une méthode appropriée pour votre système d'exploitation, attribuez à votre produit une adresse IP unique à partir d'un ordinateur de votre réseau :

Windows uniquement **– Ouvrez une fenêtre DOS et saisissez les commandes suivantes :**

Syntaxe:

```
arp -s <adresse IP du serveur> <adresse Ethernet> <adresse IP de mon PC>
ping -t <adresse IP du serveur>
```

Exemple:

```
arp -s 172.21.1.200 00-40-8c-10-00-86 172.21.1.193
ping -t 172.21.1.200
```

UNIX uniquement **– Saisissez les commandes suivantes sur la ligne de commande :**

Syntaxe:

```
arp -s <adresse IP> <adresse Ethernet> temp
ping <adresse IP>
```

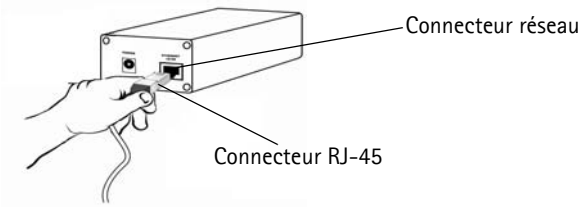
Exemple:

```
arp -s 172.21.1.200 00:40:8c:10:00:86 temp
ping 172.21.1.200
```

Remarque: Sous certains systèmes Unix, la commande arp peut être située dans un répertoire qui n'est pas dans le chemin des commandes.

Vous voyez maintenant apparaître des messages **`'Request timed out ...'`** de manière répétée dans la fenêtre DOS.

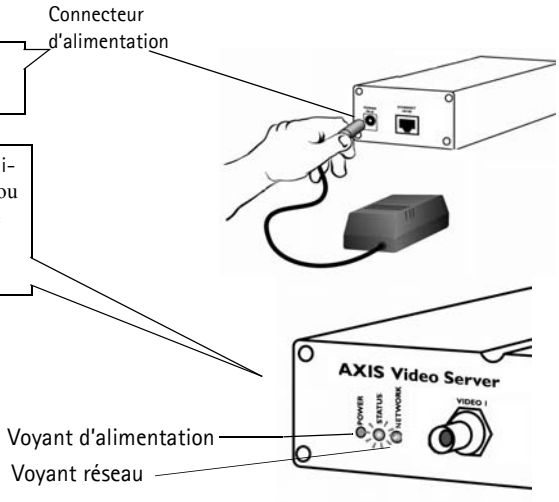
❹Connectez un câble Ethernet à votre AXIS 2411, puis reliez-le au réseau.



❺Connectez l'adaptateur secteur externe à l'unité et branchez-le sur une source de courant secteur.

❻Approximativement 10 à 15 secondes après la connexion de l'alimentation, le message `'Reply from 172.21.1.200...'` ou similaire, est renvoyé dans la fenêtre DOS. Assurez-vous que le voyant d'alimentation est allumé et que le voyant réseau clignote par intermittence.

❼Appuyez sur Control-C pour sortir de la commande ping. L'installation est maintenant terminée et vous pouvez accéder au serveur AXIS 2411 à partir de votre navigateur Web, comme cela est décrit dans la section suivante.



Vérification et fin d'installation à partir de votre navigateur

❶Lancez votre navigateur Web et entrez l'adresse IP de votre serveur AXIS 2411dans la zone d'adresse.

Important!

A la livraison, l'AXIS 2411 est configuré en accès libre (utilisateurs anonymes). L'unité est livrée avec un nom et mot de passe d'administrateur préconfigurés, definis respectivement par **root** et **pass**. Le mot de passe de l'administrateur doit être modifié immédiatement pour éviter des accès nonautorisés aux outils d'administration et/ou aux images, comme défini dans les paramètres de sécurité.

Des paramètres d'usine par défaut

Dans certaines circonstances, il peut être nécessaire de restaurer les paramètres par défaut (**Factory Default**) de votre serveur AXIS 2411. Pour cela, cliquez sur le bouton approprié dans la fenêtre **Administration Tools**, *ou* appuyez sur le bouton **Control**.

Suivez les instructions ci-dessous pour restaurer les valeurs d'usine par défaut des paramètres du produit, en utilisant le bouton **Control**:

4. Mettez le serveur AXIS 2411 hors tension en débranchant le cordon d'alimentation.
5. Tout en appuyant sur le bouton Control, reconnectez le cordon d'alimentation secteur.
6. Continuez à maintenir le bouton Control enfoncé jusqu'à ce que le voyant d'état s'affiche en *jaune* (notez que cela peut demander jusqu'à 15 secondes), puis relâchez le bouton. Lorsque le voyant d'état s'affiche en *vert* (ce qui peut prendre une minute) l'AXIS 2411 aura alors restauré les paramètres d'usine.

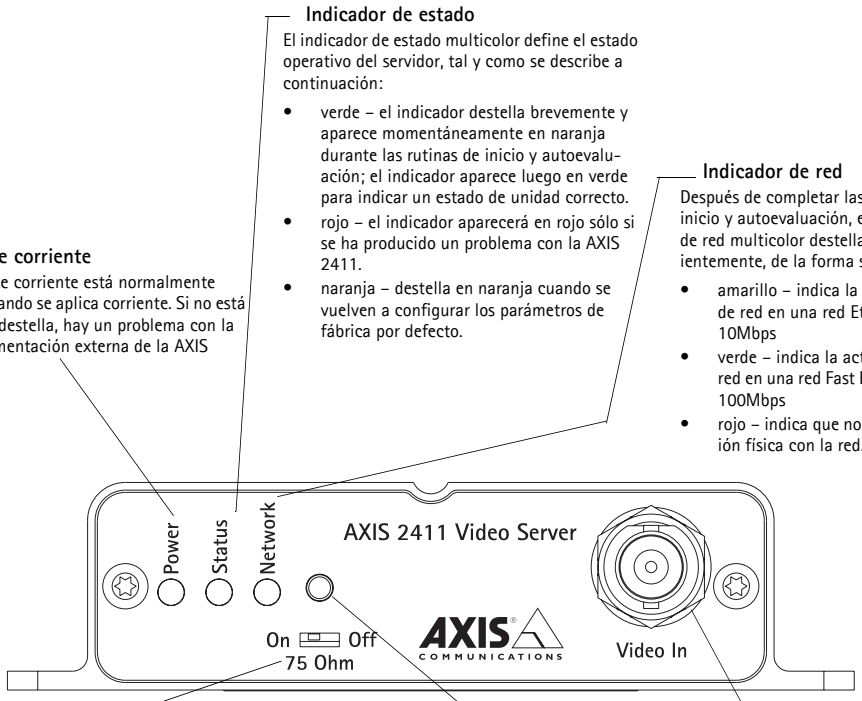
Remarque:

La restauration des paramètres d'usine par defaut réinitialise tous les paramètres, adresse internet incluses.

Descripción del producto

Lea la información siguiente para familiarizarse con el AXIS 2411, haciendo especial atención en el lugar en el que están situados los conectores e indicadores.

AXIS 2411 Panel frontal



Indicador de estado

El indicador de estado multicolor define el estado operativo del servidor, tal y como se describe a continuación:

- verde – el indicador destella brevemente y aparece momentáneamente en naranja durante las rutinas de inicio y autoevaluación; el indicador aparece luego en verde para indicar un estado de unidad correcto.
- rojo – el indicador aparecerá en rojo sólo si se ha producido un problema con la AXIS 2411.
- naranja – destella en naranja cuando se vuelven a configurar los parámetros de fábrica por defecto.

Indicador de red

Después de completar las rutinas de inicio y autoevaluación, el indicador de red multicolor destella independientemente, de la forma siguiente:

- amarillo – indica la actividad de red en una red Ethernet de 10Mbps
- verde – indica la actividad de red en una red Fast Ethernet de 100Mbps
- rojo – indica que no hay conexión física con la red.

Indicador de corriente

El indicador de corriente está normalmente encendido cuando se aplica corriente. Si no está encendido, o destella, hay un problema con la fuente de alimentación externa de la AXIS 2411.

Clavija DIP

Una terminación de línea única para la entrada de video soportada. Las unidades se ofrecen con una terminación de línea habilitada; es decir, con una clavija DIP establecida en la posición a la izquierda (On).

Si la AXIS 2411 se conecta en paralelo con otro equipo, tiene que deshabilitar la terminación de entrada girando la clavija DIP correspondiente en la posición hacia derecho(Off). No hacer esto puede deteriorar la calidad de imagen.

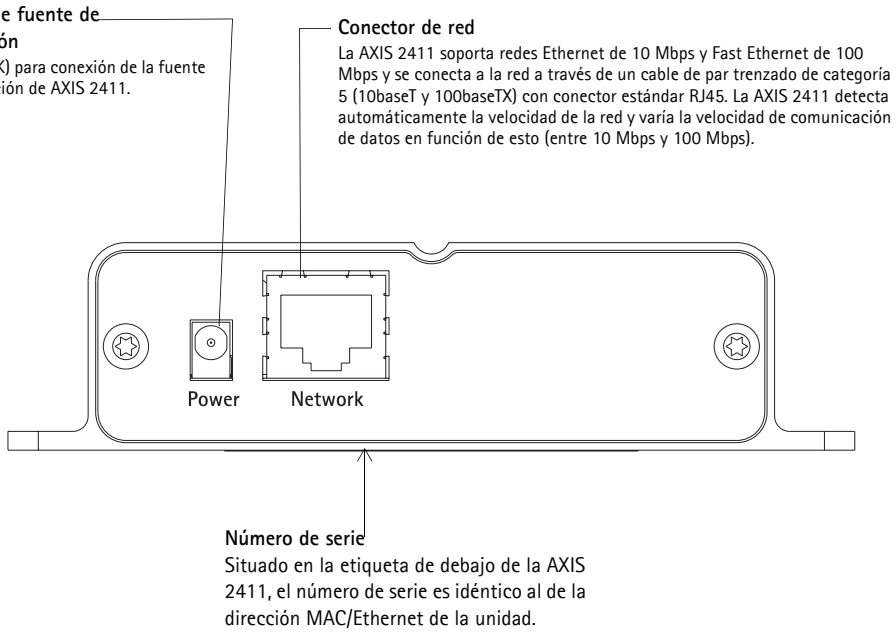
Botón Control

Con un objeto puntiagudo adecuado, pulse este botón para recuperar los parámetros de fábrica por defecto.

Entrada de video

Un conector coaxial BNC que soporta una fuente de video única. La conexión física se hace usando cable coaxial de video, 75 Ohm, con una longitud máxima recomendada de 250 metros.

AXIS 2411 Panel posterior



Inventario de hardware

Compruebe los elementos que se ofrecen con la AXIS 2411 teniendo en cuenta la lista siguiente:

Elemento	Título/Variantes	Cantidad	Elemento	Título/Variantes	Cantidad
Servidor de video	AXIS 2411	1	PSU (PS-K)	Europa R.U. Australia EE.UU. Japón	1
Documento de garantía		1			
Disco Media	AXIS Network Product CD v1.2 (o posteriores)	1	Este documento	AXIS 2411 Administration Manual v1.0	1
Mount kit	18855	1			

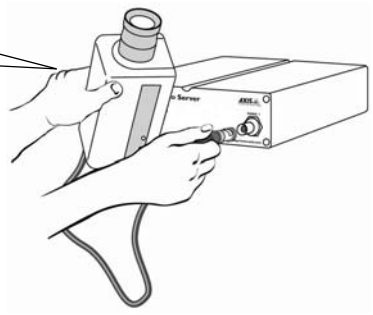
Nota:

La fuente de alimentación que se ofrece con su AXIS 2411 depende del país. Por favor, compruebe que el tipo de fuente de alimentación que utiliza es correcta.

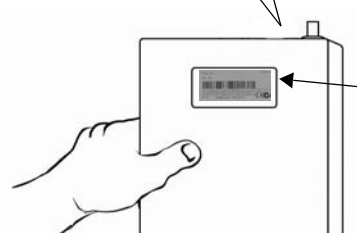
Instalar en una red

- Instalación rápida - Siga las instrucciones debajo para instalar la AXIS 2411 en una red Ethernet.
- Instalación sencilla - Utilize AXIS IP Installer. Consulte *Using AXIS IP Installer* en la página 19.
- Si Usted utiliza Macintosh - Consulte *Notes for Macintosh Users* en la página page 19.

❶ Conecte la salida de video de su(s) cámara(s) al puerto(s) de video de la AXIS 2411 usando un cable coaxial de video estándar de 75 ohm, terminado con un conector BNC. (Utilice un convertidor BNC a RCA si su cámara se suministra con un conector tipo fono estándar (RCA)).



❷ Fíjese en el número de serie de la parte inferior de la unidad. Debe saberlo para establecer la dirección IP.



Es el mismo número que el número MAC/Ethernet; p. ej. 00408c100086 = 00-40-8c-10-00-86

❸ Utilice un método adecuado para su sistema operativo, asignando a su producto una dirección IP única desde un ordenador a su red, de la forma siguiente:

Sólo Windows - **Inicie una ventana de DOS y teclee estos comandos:**

Sintaxis:

```
arp -s <Dirección IP servidor> <dirección Ethernet> <mi dirección IP de PC>
ping -t <dirección IP servidor>
```

Ejemplo:

```
arp -s 172.21.1.200 00-40-8c-10-00-86 172.21.1.193
ping -t 172.21.1.200
```

Sólo UNIX **- Teclee estos comandos:**

Sintaxis:

```
arp -s <dirección IP> <dirección Ethernet> temp
ping <dirección IP>
```

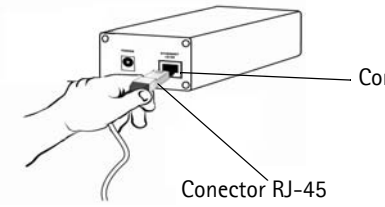
Ejemplo:

```
arp -s 172.21.1.200 00:40:8c:10:00:86 temp
ping 172.21.1.200
```

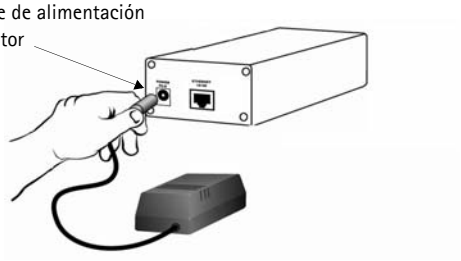
Nota: En algunos sistemas Unix, el comando arp puede situarse en un directorio que no está en la ruta comando.

Ahora ve mensajes de **'Tiempo de espera agotado para esta solicitud'** que vuelven a aparecer repetidamente en la ventana de DOS.

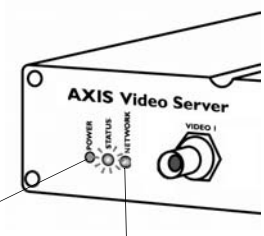
❹ Conecte un cable Ethernet a su AXIS 2411 y conéctela a la red.



❺Conecte la fuente de alimentación externa a la unidad y conéctela a la fuente de alimentación principal.



❻10 o 15 segundos después de haber conectado la fuente de alimentación, elmensaje `'Respuesta desde 172.21.1.200...'` – o similar vuelve a aparecer en la ventana de DOS. Asegúrese de que el indicador de corriente está encendido de forma permanente y de que el indicador de red destella intermitentemente.



❼Pulse Control-C para salir de ping. La instalación se ha completado y está preparado para acceder a la AXIS 2411 desde su explorador de web, tal como se describe en la sección siguiente.

Indicador de corriente

Indicador de red

Verificando y completando la instalación desde su explorador web

❶ Inicie su explorador de web e introduzca la dirección IP de su AXIS 24111 en el campo ubicación/dirección, tal y como aparece a continuación.

¡Importante!

Para su venta AXIS 2411 esta configurada para ser públicamente accedida (usando 'anonymous'). La unidad también esta configurada para poder acceder a ella como Administrador, usando el nombre de usuario y la contraseña 'root' y 'pass' respectivamente. La contraseña del Administrador debe de ser cambiada inmediatamente para prevenir el acceso sin autorización a la administración y a las imágenes. Luego de hacerlo, cierre y vuelva a abrir su navegador para asegurar que los nuevos parámetros han sido registrados.

Incluir los parámetros por defecto

En algunas circunstancias, puede ser necesario volver a incluir los parámetros **de fábrica por defecto** para su AXIS 2411. Esto se realiza haciendo clic en el botón adecuado en **Herramientas de administración** *o* pulsando el **botón Control**.

Siga las siguientes instrucciones para volver a incluir los parámetros del producto de fábrica por defecto utilizando el botón Control:

1. Apague el AXIS 2411 desconectando el cable de la corriente.
2. Con un objeto convenientemente agudo, pulse y mantenga apretado el botón "Control" y vuelva a conectar el cable de la corriente
3. Siga manteniendo el botón "Control" apretado hasta que el indicador de estado luce *amarillo* (tenga en cuenta que puede tomar 15 segundos), luego deje de apretar el botón "Control". El indicador de estado aparece en *verde* después de máximo 1 minuto y su AXIS 2411 se reinicia ahora con las configuraciones originales de la fábrica.

Nota:

La reinstalación de los parámetros originales de la fabrica causara a todos los parámetros ser reajustados, incluyendo la dirección IP.

Index