Axis Camera Servers

The First Plug-and-Picture
Web Camera

Q u i c k
I n s t a l l a t i o n
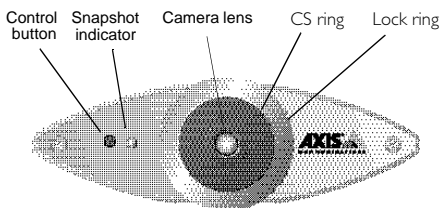G u i d e

AXIS
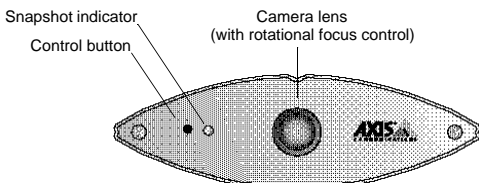COMMUNICATIONS

Quick Installation Guide

The AXIS 200+ Camera Server supersedes the AXIS 200 Camera Server. This guide covers the installation and basic setup procedures for both products. Should you require more detailed instructions, please refer to the AXIS 200+ User's Manual available via the Axis WWW Home Page at:
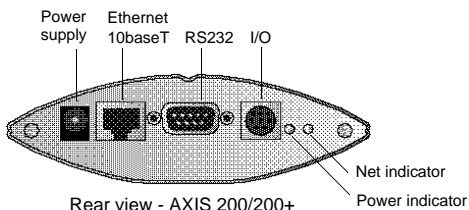
http://www.axis.com/salessupport/manuals.html, or
http://www.se.axis.com/products/documentation/manuals.html

Control button / Snapshot indicator / Camera lens / CS ring / Lock ring

Front view - AXIS 200+

Snapshot indicator / Control button / Camera lens (with rotational focus control)

Front view - AXIS 200

Power supply / Ethernet 10baseT / RS232 / I/O / Net indicator / Power indicator

Rear view - AXIS 200/200+

Installing the AXIS 200+

Follow these instructions to install your AXIS 200+:

1. Record the serial number of your AXIS 200+. Please note that the serial number is identical to the Ethernet address of the unit.

2. Connect your AXIS 200+ to the network using an Ethernet 10baseT connector.

3. Connect the external power supply (Axis type PS-D), to the AXIS 200+ and check that the Power indicator is lit.

4. Acquire an unused Internet address for your AXIS 200+.

5. Assign the Internet address to your AXIS 200+ using the method appropriate for your network environment as detailed below:

Windows 95, Windows NT

Start a DOS window and type the following commands:

```
arp -s <Internet address> <Ethernet address>
ping <Internet address>
```

Example:
```
arp -s 192.168.3.191 00-40-8c-10-00-86
ping 192.168.3.191
```

When using the Windows 95 implementation of ARP you must first, if you have an empty ARP table (seen with arp -a), ping an existing unit on your network before setting the Internet address.

UNIX

Type the following commands:

```
arp -s <Internet address> <Ethernet address> temp
ping <Internet address>
```

Example:
```
arp -s 192.168.3.191 00:40:8c:10:00:86 temp
ping 192.168.3.191
```

6. Access the AXIS 200+ by entering its Internet address (URL) into the location field of your Web browser.

Example:
http://192.168.3.191/

7. Adjust the focus. Reload your browser to test your adjustments.
AXIS 200: A white dot on the lens assembly indicates the approximate focus position for the camera, when adjusted to the 12 o' clock position.
AXIS 200+: The AXIS 200+ is delivered in approximate focus position, with focus set to infinity. If you need to fine adjust to close focus, carefully turn the smaller lens. If you cannot obtain a sharp picture, loosen the lock ring and bring the camera into focus by turning the larger lens. Tighten the lock ring afterwards. The installation is complete and you can now include snapshots taken by the camera into your own applications.

Taking Snapshots

To trigger a camera snapshot, simply enter the URL of your camera into the location field of your Web browser.

These snapshot types are available:

File name	Size (pixels)	Description
fullsize.jpg	352 x 288 30 kbytes	Full size JPEG snapshot. Generation time = 0.5 sec
halfsize.jpg	176 x 144 15 kbytes	Half size JPEG snapshot. Generation time = 0.3 sec
lastshot.jpg	352 x 288 or 176 x 144	The last snapshot taken by the camera, either "full size" or "half size".

File name	Size (pixels)	Description
hugesize.jpg	704 x 576	The highest resolution snapshot available. As opposed to the 'fullsize' and 'halfsize' images, this type of snapshot is software generated. Generation time = 18 sec
zoom.jpg	352 x 288	Derived from the from the center of 'hugesize'. Generation time = 8 sec

To integrate live snapshot images into your own applications and web pages, refer to the target snapshot type as detailed below:

Example:
http://192.168.3.191/fullsize.jpg

Example: (Adding an HTML reference)
<IMG SRC="http://192.168.3.191/fullsize.jpg" ALT="A fullsize JPEG Image from AXIS 200+">

The CRON Script

The AXIS 200+ includes a CRON script service that facilitates periodic command execution. It allows you to program event and/or time triggered functions within the AXIS 200+.

From the AXIS 200+ Home Page, you can access an on-line editor for generating the CRON script file. Alternatively, you can use a common text editor and download the file via ftp.

For example, you can program the AXIS 200+ to store a new fullsize image on an ftp server every 5 minutes.

The AXIS 200+ can also be activated by logical transitions on its input ports. Thus, by connecting a digital microcircuit to an entrance door, the AXIS 200+ could be triggered to take a snapshot on each occasion the door opens and then, for example, send an e-mail with the snapshot to an operator.

Refer to the AXIS 200+ User's Manual for more information.

EyeGet - the JPEG Script

When using the AXIS 200+ over the Internet, we recommend that it is accessed over an assisting web server and not directly. This is because the AXIS 200+ has limited capacity for handling the extra amount of buffering that the Internet may generate.

Axis has developed a JPEG collector program that periodically collects JPEG snapshots from your AXIS 200+ and writes them to a local file on your web server for later retrieval.

The program is called EyeGet and is available in both Windows and UNIX versions. You can download EyeGet free of charge from
http://www.axis.com/products/axis_neteye_200/scripts.shtml

Point to Point Protocol (PPP)

PPP support allows you to use your AXIS 200+ remotely, just as if it were on your local network. Any PPP capable host can be used to dial into the AXIS 200+.

PPP configuration for a Windows 95 host

Please refer to the AXIS 200+ web pages should you wish to use PPP from another host, i.e. Windows NT or UNIX.

Follow these instructions to configure PPP from a Windows 95 host:

1. Connect the remote modem to the serial port of the AXIS 200+ (US Robotics modem recommended).

2. From the Windows desktop, double-click on the My Computer icon and then open Dial-Up Networking.

3. Double-click on Make New Connection. From within this dialog, define a <name> that describes the connection you are creating in the 'Type name for the computer you are using' field. Select a local modem from the displayed modem list.

4. Click on the Configure button to enter the modem Properties page. Accept all default settings, but ensure that modem speed is compatible with your modem and does not exceed 38,400 bps, which is the maximum serial port speed for the AXIS 200+.

5. Click the Connection tab and then click the Advanced button.
   AXIS 200: Check the Software (XON/XOFF) radio button.
   AXIS 200+: Check the Hardware radio button.
   Click OK to return to the 'Make new connection' dialog.

6. Enter the relevant phone number information for the remote modem connected to your AXIS 200+. Click Next.

7. Click Finish. The system then proceeds to build the Driver information database and your connection dialog will then subsequently appear in the Dial-Up Networking dialog.

Accessing the remote AXIS 200+

Follow this procedure to dial out to a remote AXIS 200+.

1. Double-click on the newly created icon to establish a modem connection for your remote AXIS 200+.

2. Enter your User name and Password an then click Connect. The status dialogs "dialing" and "logging onto the network" are presented prior to the display of a Connected to <name> dialog that will confirm a successful connection.

3. You can now access the AXIS 200+ by entering its Internet address (URL) into the location field of your Web browser. Please ensure that you are not using a a proxy server (Netscape: Options menu\Select Network\Proxies).

Please refer to your Windows 95 user documentation if your computer does not have dial up networking installed.

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