

# SOP for CCTVs in SunGuide

## AXIS Q6045-E Mk II and Q6055-E

This Standard Operating Procedure is to provide a standard configuration for CCTV cameras in District 5 for consistent operation in SunGuide, VLC and IVEDDS. Standard settings to check: Network settings, Video/Encoder settings, SNTP (time server type), IP addresses, PTZ settings, Date and Time, RTSP port, NTCIP (port and address), and On Screen Display (ODS).

CCTV cameras are shipped in an unknown state. In order to be uniform with a clean installation, the camera has to be set to a factory default state. A reset to factory default will reset all settings, including the IP address to the factory default values. Resetting a camera to factory default should be used with caution.

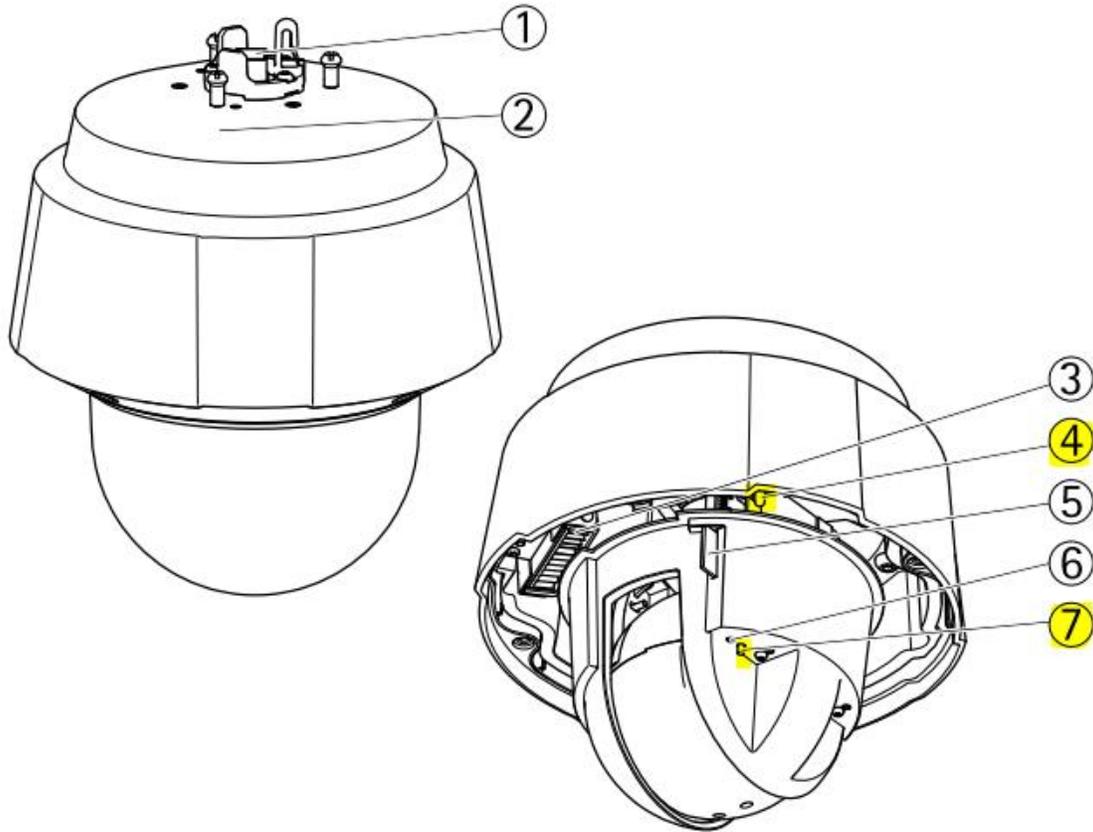
The following SOP is for the AXIS Q6045-E Mk II and Q6055-E IP cameras.

**To set the camera to a default state do the following.**

1. **Remove the protective dome** on the camera. **Take great caution** when removing the dome.
2. **Gently place the camera on its side** to expose the power button (#4) and the control button (#7). See diagram of hardware below.
3. **Connect the special shielded Ethernet cable from the midspan** (PoE injector/ power supply) **DATA & Power OUT port to the camera.**
4. **Connect the AC power cord to the midspan.**
5. **Power up the camera** with the appropriate power source (i.e. AC, DC, midspan PoE injector/power supply).
6. **Press and hold the control button (#7) and the power button (#4) for about 15-30 seconds** until the status LED indicator **flashes amber.**
7. **Release the control button (#7) but continue to hold down the power button (#4) until the status LED indicator turns green.**
8. **Release the power button (#4) and turn OFF camera.** Re-assemble the camera.

# SOP for CCTVs in SunGuide

## Hardware Overview



- 1 Network connector (High PoE)
- 2 Part number (P/N) Et Serial number (S/N)
- 3 Heater
- 4 Power button
- 5 SD card slot
- 6 Status LED indicator
- 7 Control button

## Connectors and Buttons

For technical specifications, see [page 58](#).

### Network Connector

RJ45 Push-pull Connector (IP66). Supports High Power over Ethernet (High PoE). Use the supplied midspan.

# SOP for CCTVs in SunGuide

After reassembling the camera, use a laptop to configure the camera.

**Connect an Ethernet cable from the laptop Ethernet port to the **DATA IN** port on the midspan (PoE injector/ power supply) provided.**

**Connect the special shielded Ethernet cable from the midspan (PoE injector/ power supply) **DATA & Power OUT** port to the camera.**

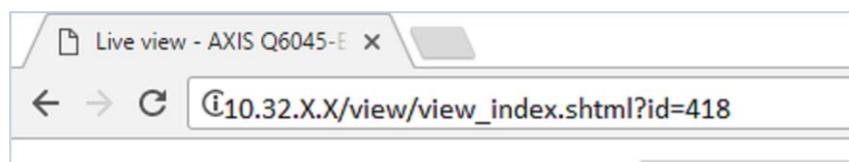
**Connect the AC power cord to the midspan.**

**Apply on Power to the camera.**



Once the camera is powered and the camera is in factory default state. The default IP address for the camera is 192.168.0.90.

**Log into the camera, using Internet Explorer or Chrome to access the camera's user interface. Type in the default IP address.**



# SOP for CCTVs in SunGuide

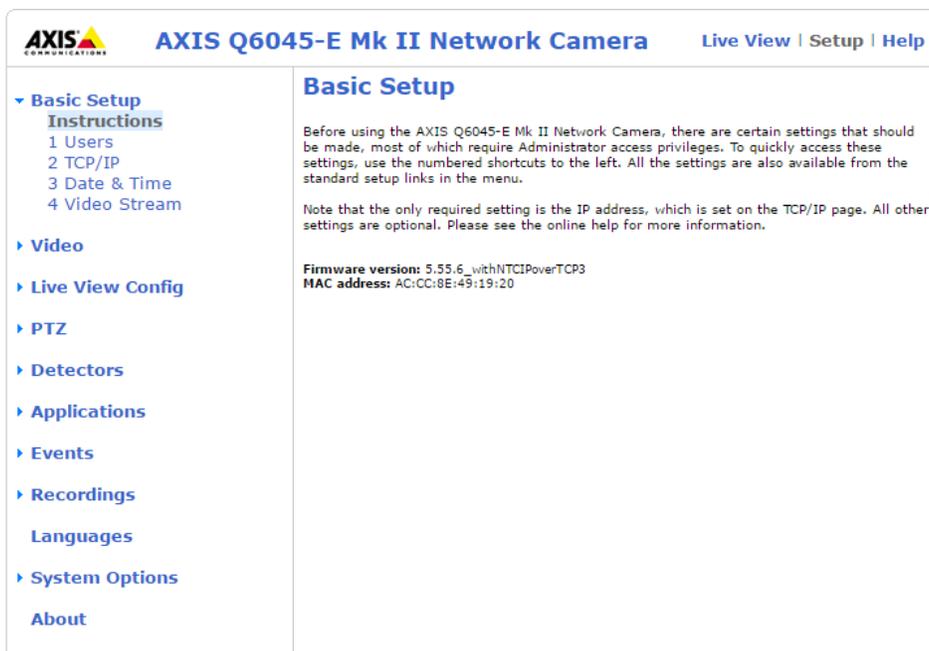
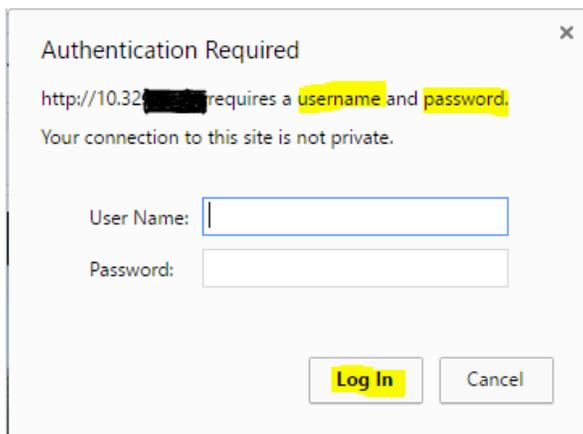
Click on Setup.



Enter the following and Log in:

Default user name: <Call ITS staff>

Default password: <Call ITS staff>



# SOP for CCTVs in SunGuide

Install Firmware.

Click on "System Options".

Click on "Maintenance".

Upgrade Firmware: <Choose File>

Click on "Upgrade".

Click on "Restart".

The screenshot shows the web interface for an AXIS Q6045-E Mk II Network Camera. The page title is "Server Maintenance". On the left sidebar, "System Options" and "Maintenance" are highlighted. The main content area includes:

- Maintain Server**: A yellow "Restart" button with the text "Restart the AXIS Q6045-E Mk II Network Camera." Below it are "Restore" and "Default" buttons, both with descriptions of resetting parameters.
- PTZ Status**: A section showing "Current PTZ status:" with sub-items "Pan: ok", "Tilt: ok", and "Camera: ok". It also shows "Time of last test: 2016-11-22 11:14:34" and a "Test" button.
- Upgrade Server**: A section with the text "Upgrade the AXIS Q6045-E Mk II with the latest firmware." It features a "Specify the firmware to upgrade to:" label, a yellow "Choose File" button (with "No file chosen" next to it), and a yellow "Upgrade" button. A note below states: "Note: Do not disconnect power to the unit during the upgrade. The unit restarts automatically after the upgrade has completed. (1-10 minutes.)"

Look for this Firmware version or a newer version with NTCIP in the name description.

The screenshot shows the "Basic Setup" page of the AXIS Q6045-E Mk II Network Camera web interface. The left sidebar shows "Basic Setup" expanded with "Instructions" selected. The main content area includes:

- Instructions**: A list of numbered shortcuts: "1 Users", "2 TCP/IP", "3 Date & Time", and "4 Video Stream".
- Text**: "Before using the AXIS Q6045-E Mk II Network Camera, there are certain settings that should be made, most of which require Administrator access privileges. To quickly access these settings, use the numbered shortcuts to the left. All the settings are also available from the standard setup links in the menu." and "Note that the only required setting is the IP address, which is set on the TCP/IP page. All other settings are optional. Please see the online help for more information."
- Firmware and MAC information**: A yellow highlighted box contains the text: "Firmware version: 5.55.6\_withNTCIPoverTCP3" and "MAC address: AC:CC:8E:49:9C:59".

# SOP for CCTVs in SunGuide

## 1. Basic TCP/IP settings:

Click on “2 TCP/IP”.

Set the following parameters for the Network.

IPv4 is enabled: <check box>

IP address: <10.32.X.X>

Subnet mask: <255.255.255.X>

Gateway (Default router): <10.32.X.X>

The screenshot shows the web interface for the AXIS Q6045-E Mk II Network Camera. The main navigation menu on the left includes: Basic Setup (Instructions, 1 Users, 2 TCP/IP, 3 Date & Time, 4 Video Stream), Video, Live View Config, PTZ, Detectors, Applications, Events, Recordings, Languages, System Options, and About. The '2 TCP/IP' menu item is highlighted in yellow.

The main content area is titled 'Basic TCP/IP Settings' and contains the following sections:

- Network Settings:** A 'View' button to view current network settings.
- IPv4 Address Configuration:**
  - Enable IPv4
  - Obtain IP address via DHCP
  - Use the following IP address:
    - IP address: 0.0.0.0
    - Subnet mask: 255.255.255.0
    - Default router: 0.0.0.0
- IPv6 Address Configuration:**
  - Enable IPv6
- Services:**
  - Enable ARP/Ping setting of IP Address
  - Enable AVHS
    - One-click enabled  Always
    - Proxy: [text box]
    - Proxy port: 3128
    - Proxy login: [text box]
    - Proxy password: [text box]
    - Proxy authentication method:  Basic  Digest  Auto

At the bottom of the settings area, there is an 'AXIS Internet Dynamic DNS Service' section with a 'Settings...' button. Below this are 'Save' and 'Reset' buttons. A footer note says 'See also the [advanced TCP/IP settings](#)'.

Click SAVE.

# SOP for CCTVs in SunGuide

NOTE: Click SAVE after every configuration setting for that window before moving to the next menu item.

## 2. System Options settings:

Click on “System Options”.

Click on the “Add...” button.

The screenshot displays the web interface for an AXIS Q6045-E Mk II Network Camera. The top navigation bar includes the AXIS logo, the camera model name, and links for Live View, Setup, and Help. A left-hand menu lists various configuration categories, with 'System Options' expanded to show 'Users' as the active selection. The main content area is titled 'Users' and features a 'User List' table with columns for 'User Name' and 'User Group'. Below the table are buttons for 'Add...', 'Modify...', and 'Remove'. Further down, there are sections for 'HTTP/RTSP Password Settings' (with a dropdown menu set to 'Unencrypted only') and 'User Settings' (with three checked checkboxes: 'Enable anonymous viewer login', 'Enable anonymous PTZ control login', and 'Enable Basic Setup'). 'Save' and 'Reset' buttons are located at the bottom of the settings section.

User Name	User Group
root	Administrator
fdot	Administrator
wwwa	Administrator
wwwao	Administrator
wwwaop	Administrator
wwwaov	Administrator
wwwaovp	Administrator
wwwap	Administrator

# SOP for CCTVs in SunGuide

Set the following parameters for User Setup.

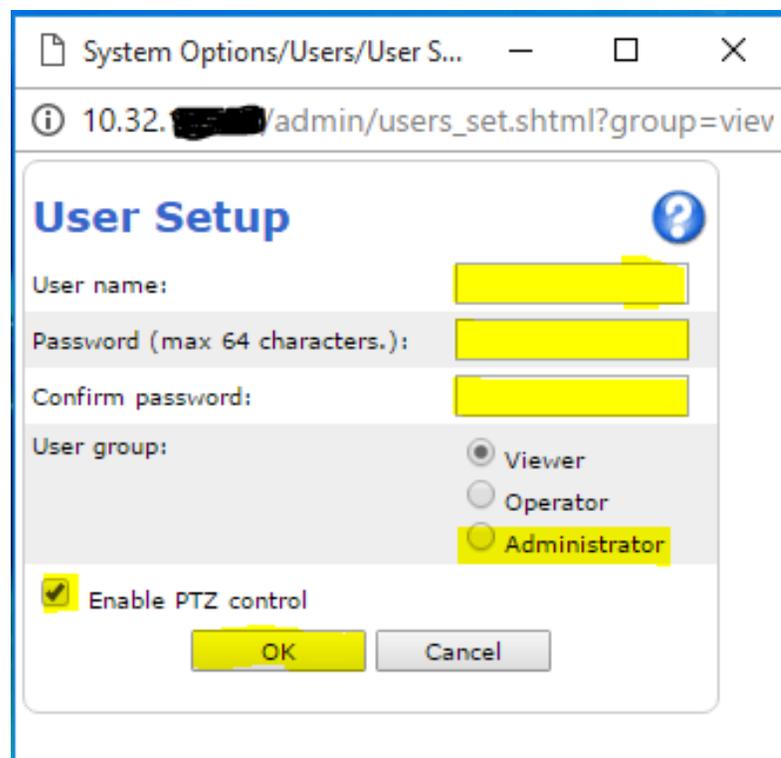
*User name:* <fdot>

*Password:* <Call ITS for password>

*Confirm password:* <Call ITS for password>

*Enable PTZ control:* <check the box>

*Select User group:* <Administrator>



The screenshot shows a web browser window titled "System Options/Users/User S...". The address bar displays "10.32. [redacted] /admin/users\_set.shtml?group=view". The main content area is titled "User Setup" and contains the following fields and controls:

- User name:** A text input field with a yellow highlight.
- Password (max 64 characters.):** A text input field with a yellow highlight.
- Confirm password:** A text input field with a yellow highlight.
- User group:** A radio button selection with three options: "Viewer", "Operator", and "Administrator". The "Administrator" option is selected and highlighted in yellow.
- Enable PTZ control:** A checked checkbox with a yellow highlight.
- Buttons:** "OK" and "Cancel" buttons at the bottom, with the "OK" button highlighted in yellow.

Click "OK".

# SOP for CCTVs in SunGuide

Click on "System Options".

Click on "Network".

The screenshot displays the web interface for an AXIS Q6045-E Mk II Network Camera. The page title is "AXIS Q6045-E Mk II Network Camera" with links for "Live View", "Setup", and "Help". The left sidebar contains a navigation menu with "System Options" expanded to show "Security" and "Users" selected. The main content area is titled "Users" and features a "User List" table with columns for "User Name" and "User Group". Below the table are "Add...", "Modify...", and "Remove" buttons. The "HTTP/RTSP Password Settings" section includes a dropdown menu set to "Unencrypted only". The "User Settings" section has three checked checkboxes: "Enable anonymous viewer login", "Enable anonymous PTZ control login", and "Enable Basic Setup". "Save" and "Reset" buttons are located at the bottom of the settings section.

User Name	User Group
root	Administrator
fdot	Administrator
wwwa	Administrator
wwwao	Administrator
wwwaop	Administrator
wwwaov	Administrator
wwwaovp	Administrator
wwwap	Administrator

# SOP for CCTVs in SunGuide

**Click on “Advanced”.**

**Check the following settings.**

*NTP Configuration:* < (Enter IP address of NTP server 10.32.0.22)>

*FTP Enable:* <check the box>

*RTSP Enable:* <check the box>

*RTSP port:* <554>

# SOP for CCTVs in SunGuide

**AXIS** COMMUNICATIONS **AXIS Q6045-E Mk II Network Camera** [Live View](#) | [Setup](#) | [Help](#)

**Advanced TCP/IP Settings** ?

**DNS Configuration**

Obtain DNS server address via DHCP [View](#)

Use the following DNS server address:

Domain name:  (use ; to separate names)

Primary DNS server:

Secondary DNS server:

**NTP Configuration**

Obtain NTP server address via DHCP [View](#)

Use the following NTP server address:

Network address:  (host name or IP address)

**Host Name Configuration**

Use the host name:

Enable dynamic DNS updates

Register DNS name:  (Axisproduct.example.com)

TTL:

**Link-Local IPv4 Address**

Auto-Configure Link-Local Address [View](#)

**HTTP**

HTTP port:

**HTTPS**

HTTPS port:

**NAT traversal (port mapping) for IPv4**

NAT traversal is disabled. [Enable](#)

Use manually selected NAT router:  (LAN IP address)

Alternative HTTP port:  \*

\* If set to blank or 0, a port number will be set automatically upon enable.

**FTP**

Enable FTP server

**RTSP**

Enable RTSP server\*

RTSP port:

\* H.264 video streams will be unavailable if this is disabled.

[Save](#) [Reset](#)

**Basic Setup**

**Video**

**Live View Config**

**PTZ**

**Detectors**

**Applications**

**Events**

**Recordings**

**Languages**

**System Options**

- Security
- Date & Time
- Network
  - TCP/IP
    - Basic
    - Advanced**
    - SOCKS
    - QoS
    - SNMP
    - UPnP™
    - RTP
    - Bonjour
  - Storage
  - Maintenance
  - Support
  - Advanced

**About**

Click **SAVE**.

Click on **“Date & Time”**.

# SOP for CCTVs in SunGuide

Set the following parameters for Date and Time.

Time Zone select: <GMT-05 (New York, Toronto, Washington DC)>

Time mode select: <Synchronize with NTP server>

**AXIS** COMMUNICATIONS **AXIS Q6045-E Mk II Network Camera** Live View | Setup | Help

## Date & Time Settings

**Current Server Time**  
Date: 2020-01-31 Time: 09:48:28

**New Server Time**  
Time zone: GMT-05 (New York, Toronto, Washington DC) ▼  
 Automatically adjust for daylight saving time changes.  
Time mode:  
 Synchronize with computer time  
Date: 2020-01-31 Time: 09:48:28  
 Synchronize with NTP server  
NTP server: [10.32.0.22](#)  
 Set manually  
Date: 2020-01-31 Time: 09:47:48

**Date & Time Format Used in Images**  
Specify date format:  Predefined MM/DD/YYYY ▼  
 Own %F  
Specify time format:  Predefined 24h ▼ With resolution: 1 second ▼  
 Own %T

Save Reset

Click SAVE.

Click on "Network".

Click on "SNMP".

# SOP for CCTVs in SunGuide

Set the following parameters for SNMP settings.

Enable SNMP v1: <check the box>

Read community: <public>

Write community: <write>

**AXIS** COMMUNICATIONS **AXIS Q6045-E Mk II Network Camera** [Live View](#) | [Setup](#) | [Help](#)

**SNMP Settings** ?

**SNMP v1/v2c**

Enable SNMP v1

Enable SNMP v2c

Read community: public

Write community: write

Enable traps

Trap address:

Trap community: public

**Available traps**

Cold start

Warm start

Link up

Authentication failed

**SNMP v3**

Enable SNMP v3

SNMP v3 Initial user's password:

Note:  
Initial user password is activated only when HTTPS is enabled and can only be set once.  
If SNMP v3 is enabled, then SNMP v1/v2c traps should be disabled.

**Save** **Reset**

**Basic Setup**

**Video**

**Live View Config**

**PTZ**

**Detectors**

**Applications**

**Events**

**Recordings**

**Languages**

**System Options**

Security

Date & Time

**Network**

TCP/IP

SOCKS

QoS

**SNMP**

UPnP™

RTP

Bonjour

Storage

Maintenance

Support

Advanced

**About**

Click **SAVE**.

Click on **"RTP"**.

Set the following parameters for RTP Multicast settings.

# SOP for CCTVs in SunGuide

*Video address:* < Enter Multicast address 232.X.X.X >

*Always Multicast Video:* <check the box>

*Select Stream:* <H.264>

The screenshot shows the web interface for an AXIS Q6055-E Network Camera. The page title is "AXIS Q6055-E Network Camera" with "Live View | Setup | Help" links. A left sidebar contains a navigation menu with categories: Basic Setup, Video, Live View Config, PTZ, Detectors, Applications, Events, Recordings, Languages, System Options (with sub-items: Security, Date & Time, Network, TCP/IP, SOCKS, QoS, SNMP, UPnP™, RTP, Bonjour, Storage, Maintenance, Support, Advanced), and About. The "RTP" option is highlighted in yellow. The main content area is titled "RTP Settings" and includes a "Port Range" section with "Start port: 5000 [1024..65534]" and "End port: 5099 [1025..65535]". Below this is a "Multicast" section with "Video address: 0.0.0.0", "Video port: 0 [0, 1024..65534; even values only]\*", and "Time to live: 64 [1..255]". A checkbox labeled "Always Multicast Video" is checked, and a dropdown menu is set to "H.264". A note at the bottom states "\* 0 = Port automatically selected within the port range specified above." and there are "Save" and "Reset" buttons.

Click **SAVE**.

Click on **"Advanced"**.

# SOP for CCTVs in SunGuide

The screenshot shows the web interface for the AXIS Q6045-E Mk II Network Camera. The left sidebar contains a navigation menu with the following items: Basic Setup, Video, Live View Config, PTZ, Detectors, Applications, Events, Recordings, Languages, System Options (with sub-items: Security, Date & Time, Network, TCP/IP, SOCKS, QoS, SNMP, UPnP™, RTP, Bonjour, Storage, Maintenance, Support, and Advanced), and About. The 'Advanced' item is highlighted in yellow. The main content area is titled 'RTP Settings' and includes a 'Port Range' section with 'Start port' (5000) and 'End port' (5099). Below this is a 'Multicast' section with 'Video address' (232), 'Video port' (0), and 'Time to live' (5). There is a checkbox for 'Always Multicast Video' and a dropdown menu set to 'H.264'. A note at the bottom states: '\*0 = Port automatically selected within the port range specified above.' There are 'Save' and 'Reset' buttons at the bottom right.

Click on “Plain Config”.

The screenshot shows the web interface for the AXIS Q6045-E Mk II Network Camera. The left sidebar is identical to the previous screenshot, with 'Advanced' highlighted. The main content area is titled 'Advanced Scripting' and features an 'Open Script Editor' button. A warning message states: 'Axis strongly recommends that you do not use this function unless you fully understand the consequences. If the editing of a script does cause problems, the only recourse then will be to reset the product to its factory default settings.' The sidebar menu is expanded to show 'Scripting', 'File Upload', and 'Plain Config', with 'Plain Config' highlighted in yellow.

# SOP for CCTVs in SunGuide



AXIS Q6045-E Mk II Network Camera

[Live View](#) | [Setup](#) | [Help](#)

The plain config page allows direct access to all the configurable parameters supported by the AXIS Q6045-E Mk II Network Camera. This page uses no extra scripts (Javascript or otherwise) and should function correctly in any browser or PDA.

Select the parameter group to modify and configure the settings directly.

For help on parameters, please refer to the relevant help page available from the standard setup tools.

Enable plain config as default setup pages

Save default setup pages

Select a group of parameters to modify:

----- ▼ Select group

Click on the drop down menu, scroll down and select "SNMP".



AXIS Q6045-E Mk II Network Camera

[Live View](#) | [Setup](#) | [Help](#)

The plain config page allows direct access to all the configurable parameters supported by the AXIS Q6045-E Mk II Network Camera. This page uses no extra scripts (Javascript or otherwise) and should function correctly in any browser or PDA.

Select the parameter group to modify and configure the settings directly.

For help on parameters, please refer to the relevant help page available from the standard setup tools.

Enable plain config as default setup pages

Save default setup pages

Select a group of parameters to modify:

----- ▼ Select group

- Log
- MailLogd
- Motion
- Network
- Notify
- Properties
- PTZ
- Recording
- RemoteService
- Serial
- SMTP
- SNMP**
- SOCKS
- Storage
- StreamCache
- StreamProfile
- System
- TemperatureControl
- Time
- WebService

Click "Select group".

Save default setup pages

Select a group of parameters to modify:

SNMP ▼ Select group

Ensure that the following parameters are set.

# SOP for CCTVs in SunGuide

*Enabled:* <box is checked>

*V1 Enabled:* <box is checked>

*SNMP ntcip:* <box is checked>

SNMP

## SNMP

<b>Enabled:</b>	<input checked="" type="checkbox"/>
SNMP EngineBoots counter:	<input type="text" value="19"/> [1..]
<b>V1 Enabled:</b>	<input checked="" type="checkbox"/>
V2c Enabled:	<input type="checkbox"/>
V3 Enabled:	<input type="checkbox"/>
Read Community:	<input type="text" value="public"/>
Write Community:	<input type="text" value="write"/>
SNMP DSCP:	<input type="text" value="0"/> [0..63]
<b>SNMP ntcip:</b>	<input checked="" type="checkbox"/>
<b>SNMP Trap:</b>	
Enable Traps:	<input type="checkbox"/>
<b>SNMP Trap T0:</b>	
Trap Address:	<input type="text"/>
Trap Community:	<input type="text" value="public"/>
<b>SNMP Trap T0 AuthFail:</b>	
Authentication Failed:	<input type="checkbox"/>
<b>SNMP Trap T0 ColdStart:</b>	
Cold Start:	<input type="checkbox"/>
<b>SNMP Trap T0 LinkUp:</b>	
Link Up:	<input type="checkbox"/>
<b>SNMP Trap T0 WarmStart:</b>	
Warm Start:	<input type="checkbox"/>
Save page changes:	<input type="button" value="Save"/> <input type="button" value="Reset"/>

Click Save and then click Setup.



AXIS Q6045-E Mk II Network Camera

[Live View](#) | [Setup](#) | [Help](#)

### **3. Video Stream settings:**

# SOP for CCTVs in SunGuide

Click on “Video”.

Set the following parameters for the Video Stream.

Maximum frame rate: <Unlimited>

Overlay settings: <check the box>

Include text: <Roadway, Direction, at Mile Marker 000.0>

For example: <I-75\_NB\_at\_MM\_354.3>

Text overlay size: <medium>

Text color: <white>

Text background color: <transparent>

Place text/date/time positions: <top >

The screenshot displays the web interface for an AXIS Q6045-E Mk II Network Camera. The left sidebar contains navigation options: Basic Setup, Video (selected), Live View Config, PTZ, Detectors, Applications, Events, Recordings, Languages, System Options, and About. The main content area is titled "Video Stream Settings" and includes tabs for Image, H.264, and MJPEG. The "Image" tab is active, showing settings for Image Appearance (Resolution: 1280x720 (16:9), Compression: 70, Rotate image: 0 degrees), Video Stream (Maximum frame rate: Unlimited), and Overlay Settings (Include text: checked, text: I-75 NB at 306.3, Text overlay size: medium, Text color: white, Text background color: transparent, Place text/date/time at: top). A Preview section at the bottom shows the video format set to MJPEG and buttons for Save and Reset.

Click Save.

Click on “H.264” tab.

# SOP for CCTVs in SunGuide

Set the following parameters for the Video Stream Encoder Settings and Bit Rate Control.

*GOV length:* <62>  
*H.264 profile:* <Main>  
*Use:* <Maximum bit rate>  
*Target bit rate:* <2048> kbit/s  
*Priority:* <None>

The screenshot displays the web interface for an AXIS Q6045-E Mk II Network Camera. The top navigation bar includes the AXIS logo, the camera model name, and links for Live View, Setup, and Help. A left sidebar contains a menu with categories like Basic Setup, Video, Live View Config, PTZ, Detectors, Applications, Events, Recordings, Languages, System Options, and About. The main content area is titled 'Video Stream Settings' and features three tabs: Image, H.264 (selected), and MJPEG. Under the H.264 tab, there are two sections: 'Encoder Settings' and 'Bit Rate Control'. The Encoder Settings section includes a text input for 'GOV length' (value: 62) and a dropdown for 'H.264 profile' (value: Main). The Bit Rate Control section includes radio buttons for 'Use:' (selected: Maximum bit rate), a text input for 'Target bit rate' (value: 2048 kbit/s), and a dropdown for 'Priority' (value: None). At the bottom, there is a 'Preview' section with a video format dropdown (value: MJPEG) and an 'Open...' button. Below the preview are 'Save' and 'Reset' buttons.

Click Save.

# SOP for CCTVs in SunGuide

Click on “MJPEG” tab.

Verify that the following parameters are set.

The screenshot displays the web interface for an AXIS Q6045-E Mk II Network Camera. The top navigation bar includes the AXIS logo, the camera model name, and links for Live View, Setup, and Help. A left-hand navigation menu lists various configuration categories such as Basic Setup, Video, Live View Config, PTZ, Detectors, Applications, Events, Recordings, Languages, System Options, and About. The main content area is titled "Video Stream Settings" and features three tabs: Image, H.264, and MJPEG. The MJPEG tab is active, showing a "Frame Size Control" section with a "Maximum frame size:" label. Two radio button options are present: "Default" (which is selected) and "Limited to" followed by an empty input field and the text "[1..100000] kbytes". Below this section is a "Preview" area with the text "View image stream while configuring. Video format:" followed by a dropdown menu set to "MJPEG" and an "Open..." button. At the bottom of the interface are "Save" and "Reset" buttons.

Click Save.

Click on “Camera Settings”.

# SOP for CCTVs in SunGuide

Set the following parameters.

Capture mode: <1080p 1920x1080 (16:9) @ 30fps>

White balance: <Automatic Outdoor>

Exposure control: <Automatic>

Max exposure time: <1/30 s>

Allow slow shutter: <check the box>

Max gain: <42 dB>

Exposure Zones: <Auto>

IR cut filter: <Auto>

Day/Night shift priority: <Day>

Autofocus Enabled: <check the box>

**AXIS Q6045-E Mk II Network Camera** Live View | Setup | Help

**Camera Settings**

**Capture mode**  
Capture mode: 1080p 1920x1080 (16:9) @ 30fps

**Image Appearance**  
Color level: 50 [0..100]  
Brightness: 50 [0..100]  
Sharpness: 50 [0..100]

**White Balance**  
White balance: Automatic Outdoor

**Wide Dynamic Range**  
Wide dynamic range: Off

**Exposure Settings**  
Exposure control: Automatic  
Max exposure time: 1/30 s  Allow slow shutter

Enable Backlight compensation:   
Enable Highlight compensation:

Max gain: 42 dB  
Exposure zones: Auto  
IR cut filter: Auto  
Day/Night shift priority: Day

**Image Settings**  
Autofocus enabled:   
Auto defog: Low  
Noise reduction: On  
Image freeze on PTZ: Off

**View Image Settings**  
View image after saving.

Click Save.

## 4. Live View Config settings:

# SOP for CCTVs in SunGuide

Click on “Live View Config”.

Click on “Layout”.

Verify that the following parameters are set.

**AXIS COMMUNICATIONS** **AXIS Q6045-E Mk II Network Camera** [Live View](#) | [Setup](#) | [Help](#)

**Live View Layout**

**Stream Profile**

Stream profile: MJPEG

Show stream profile selection

**Default Viewer**

Windows Internet Explorer: AMC (ActiveX)

Other Browsers: Server push

**Note:** QuickTime is only used with H.264. Motion JPEG will be shown with AMC in Windows Internet Explorer and with server push in other browsers.

**Viewer Settings**

Show viewer toolbar

Enable H.264 decoder installation

Show crosshair in PTZ joystick mode\*

Use PTZ joystick mode as default\*

Enable recording button

\*Not applicable to AMC (ActiveX).

**Action Buttons**

Show manual trigger button for Video

Show snapshot button

Show autotracking button

Show fan button

Fan 0 activate for 5 minutes.  
Fan 1 activate for 5 minutes.  
Fan 2 activate for 5 minutes.

Show heater button

Activate for 5 minutes.

**User Defined Links**

Show custom link 1

Name: Custom link 1

Use as:  cgi link  web link

URL: http://

Show custom link 2

Name: Custom link 2

Use as:  cgi link  web link

URL: http://

Show custom link 3

Name: Custom link 3

Use as:  cgi link  web link

URL: http://

Show custom link 4

Name: Custom link 4

Use as:  cgi link  web link

URL: http://

**Save** **Reset**

Click Save.

## 5. Pan/Tilt/Zoom (PTZ) settings:

# SOP for CCTVs in SunGuide

Click on “PTZ”.

Click on “Advanced”.

Set the Limits for the E-flip.

Enable E-flip: <check the box>

The screenshot shows the web interface for an AXIS Q6045-E Mk II Network Camera. The left sidebar contains a navigation menu with the following items: Basic Setup, Video, Live View Config, PTZ (expanded), Preset Positions, Autotracking, Gatekeeper, Guard Tour, OSDI Zones, Advanced (expanded), Limits (highlighted in yellow), Controls, Control Queue, Detectors, Applications, Events, Recordings, Languages, System Options, and About. The main content area is titled "Limits" and includes a "Mechanical Restrictions" section. This section features a central video preview of a highway with the text "I-75 NB at 306.3" overlaid. Surrounding the preview are input fields for "Upper limit: 20 [-90..20]", "Left limit: -180 [-180..180]", and "Right limit: 180 [-180..180]", each with a corresponding "Go to" button. Below the preview is a checked checkbox for "Enable E-flip:". Further down, there are settings for "Zoom tele limit" (set to x64 (x2 D)), "Focus near limit" (set to 3.0 m), and "Move speed" (set to 450 deg/sec). A "Test speed" button is also present. At the bottom, there is a checked checkbox for "Enable proportional speed" with a "Max proportional speed" of 200. A note states: "Note: All changed limits must be saved before the Go to button will work with the new settings." At the very bottom of the configuration area are "Save" and "Reset" buttons.

Click Save.

Click on “Controls”.

# SOP for CCTVs in SunGuide

Verify that the following parameters are set.

The screenshot shows the web interface for an AXIS Q6045-E Mk II Network Camera. The page title is "Control Settings". On the left sidebar, the "Controls" option is highlighted in yellow. The main content area shows a table for "Panel Shortcut Command Buttons" which is currently empty. Below the table are buttons for "Add...", "Modify...", "Enable/Disable", and "Remove". The "Enable/Disable controls" section is highlighted in yellow and contains five checked items: "Pan enable", "Tilt enable", "Zoom enable", "Focus enable", and "Iris enable". At the bottom of this section are "Save" and "Reset" buttons, with the "Save" button highlighted in yellow.

Click Save.

## 6. Logging Out of device:

# SOP for CCTVs in SunGuide

Click on “System Options”.

Click on “Maintenance”.

Click on “Restart”.

Turn off power to the camera.

The screenshot displays the web interface for an AXIS Q6045-E Mk II Network Camera. The top navigation bar includes the AXIS logo, the camera model name, and links for Live View, Setup, and Help. A left-hand menu lists various configuration categories, with 'System Options' expanded to show 'Maintenance' highlighted. The main content area is titled 'Server Maintenance' and contains three sections: 'Maintain Server' with 'Restart', 'Restore', and 'Default' buttons; 'PTZ Status' showing 'Pan: ok', 'Tilt: ok', 'Camera: ok', and a 'Test' button; and 'Upgrade Server' with a 'Choose File' button and an 'Upgrade' button. A note at the bottom of the upgrade section states: 'Note: Do not disconnect power to the unit during the upgrade. The unit restarts automatically after the upgrade has completed. (1-10 minutes.)'

**Camera is configured and ready to be installed.**