

SOP for CCTVs in SunGuide

BOSCH AutoDome 800 HD

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).

The following SOP is for the BOSCH AutoDome 800 HD (820) IP camera.

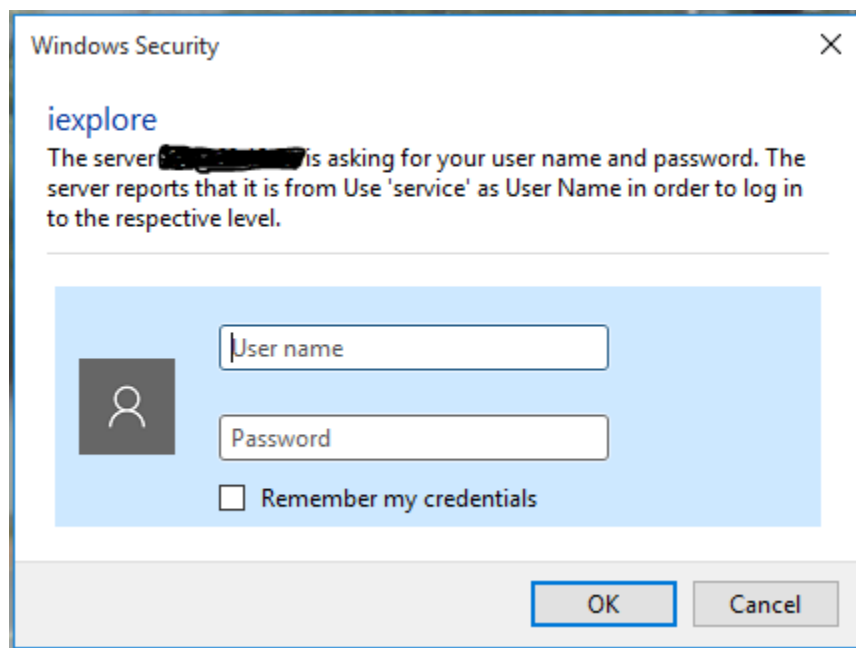
Log into the camera, using Internet Explorer or Chrome to access the camera's user interface. Type in the default IP address.



Enter the following:

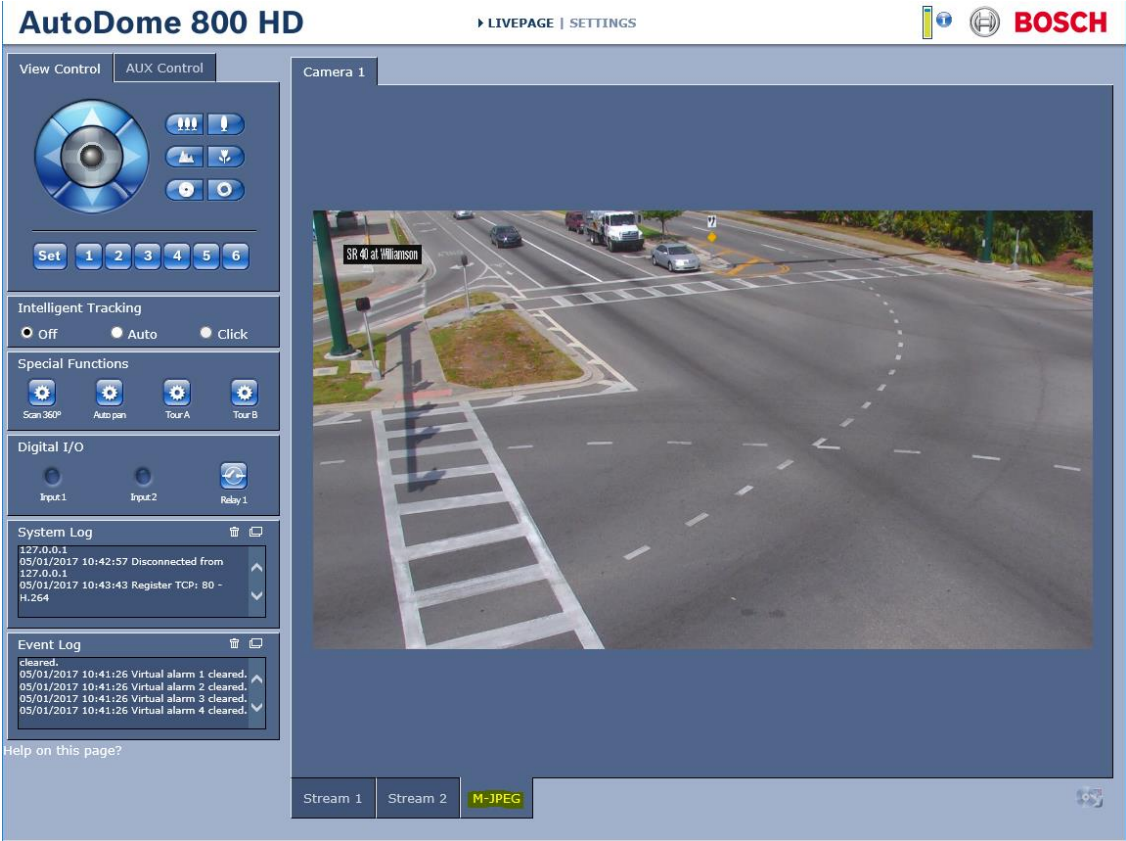
Enter the user name: <service>

Enter the password: <Default>



Click "OK".

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Click on "Settings".

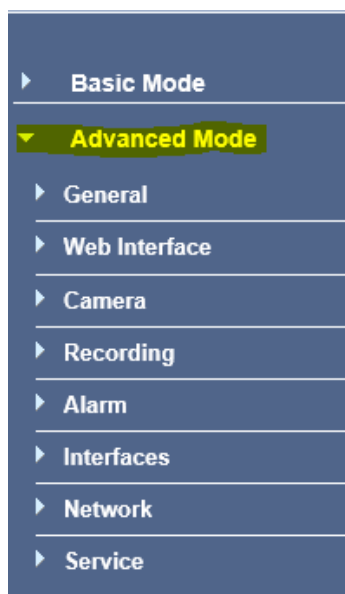
AutoDome 800 HD

LIVEPAGE | **SETTINGS**

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Click on “Advanced Mode”.



SOP for CCTVs in SunGuide

Click on “Network”.

Click on “Network Access”.



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

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1. Network settings:

Set the following parameters for the “Network Access”.

<i>DHCP is disabled</i>	<Off>
<i>IP address</i>	<10.X.X.X>
<i>Subnet mask</i>	<255.255.255.X>
<i>Gateway</i>	<10.X.X.X>
<i>DynDNS is disabled</i>	<Off>

Network Access

DHCP

Automatic IP assignment

Ethernet

IPv4

IP address

Subnet mask

Gateway address

IPv6

IP address

Prefix length

Gateway address

DNS server address 1

[Details >>](#)

DynDNS

Enable DynDNS

Provider

Host name

User name

Password

Force registration now

Status DynDNS function switched off

[Help on this page?](#)

Click “Set and Reboot”.

SOP for CCTVs in SunGuide

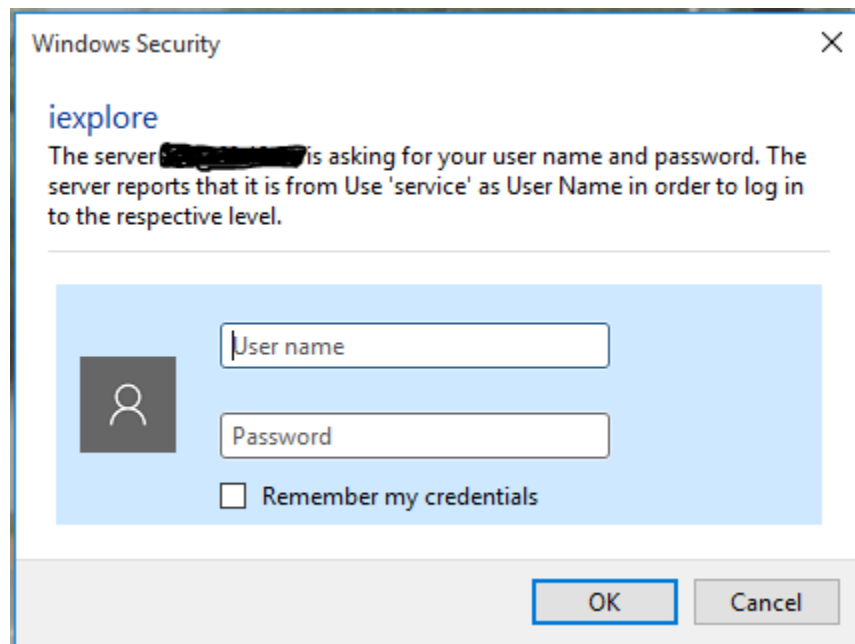
After Reboot, log into the camera, use Internet Explorer or Chrome to access the camera's user interface. Type in the assigned IP address.



Enter the following:

Enter the user name: <service>

Enter the password: <Default>



Click "OK".

Click on "Settings".

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Click on “Advanced Mode”.

Click on “Network.”

Click on “Advanced.”

Set the following parameters for the “Advanced” setting.

SNMP: < On >
RTSP Port: < 554 >
NTCIP Port: < 4439 >
NTCIP Address: < 1 >
UPnP: < Off >

The screenshot shows the SunGuide web interface. On the left, a navigation menu is visible with the following items: Basic Mode, Advanced Mode, General, Web interface, Camera, Recording, Alarm, Interfaces, Network (highlighted), Network Access, Advanced (highlighted), Multicast, Image Posting, Accounts, IPv4 Filter, Encryption, and Service. The main content area is titled 'Advanced' and contains the following settings:

- SNMP: On
- 1. SNMP host address: 0.0.0.0
- 2. SNMP host address: 10.32.0.68
- SNMP traps: Select
- 802.1x: Authentication: Off
- Identity: [empty field]
- Password: [empty field]
- RTSP: RTSP port: 554
- NTCIP: Port: 4439
- Address: 1
- UPnP: UPnP: Off
- TCP metadata input: TCP port: Off
- Sender IP address: 0.0.0.0
- Quality of service: Audio: 0, Video: 0, Control: 0, Alarm video: 0, Post-alarm time: 15 s
- Cloud-based services: User Mode: Auto

A 'Set' button is located at the bottom right of the settings area.

Click Set.

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Click on “Advanced Mode”.

Click on “Network.”

Click on “Multicast”

Set the following parameters for the “Multicast” setting Stream 1 and Stream 2.

Enable: < check box >

Multicast Address: < If provided 232.219.X.X >

Port: (Stream 1) < 5554 >, (Stream 2) < 5556 >

Streaming: < check box >

Multicast packet TTL: < 64 >

(NOTE: The same multicast IP is used for both stream 1 and stream2)



Click Set.

SOP for CCTVs in SunGuide

Click on “Advanced Mode”.

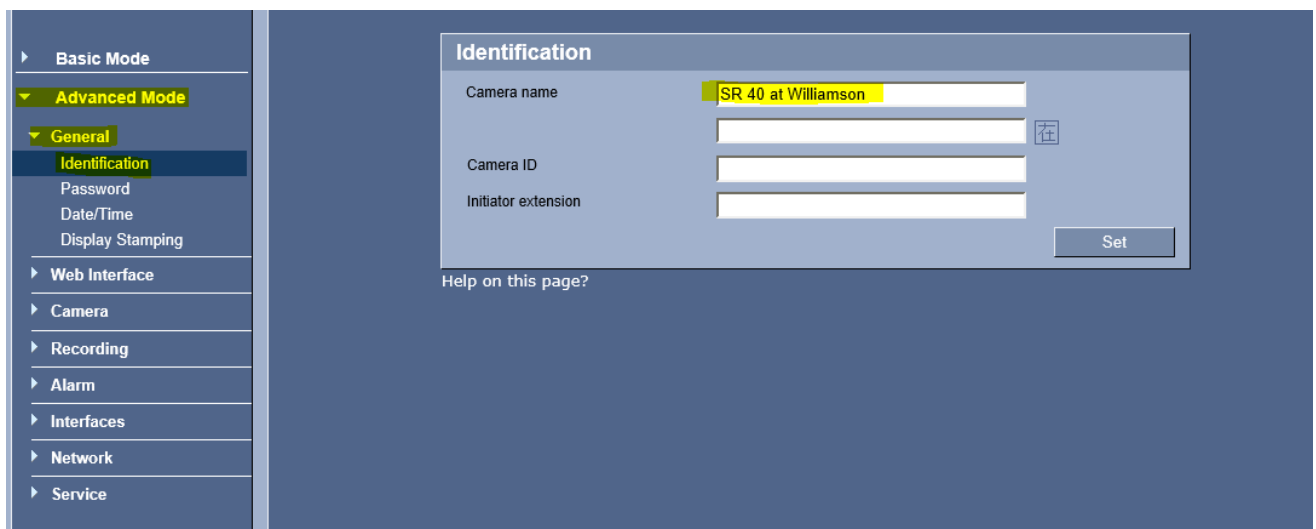
Click on “General”.

Click on “Identification”.

Type the Camera Name or Camera Location.

Camera name: <Example: I-95 NB AT MM 000.0>

Camera name: <Example: SR 50 at JYP>



The screenshot displays the SunGuide web interface. On the left is a navigation menu with the following items: Basic Mode, Advanced Mode (highlighted), General (highlighted), Identification (highlighted), Password, Date/Time, Display Stamping, Web Interface, Camera, Recording, Alarm, Interfaces, Network, and Service. The main content area is titled "Identification" and contains three input fields: "Camera name" (with the text "SR 40 at Williamson" entered), "Camera ID", and "Initiator extension". A "Set" button is located at the bottom right of the form. Below the form, there is a link that says "Help on this page?".

Click Set.

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Click “Date/Time”. Set the following parameters for the “Date/Time”.

Date format: < MM/DD/YYYY >

Device Time Zone: < Select (UTC -5:00) Eastern Time >

Device Time format: < Select Sync to PC >

The screenshot shows the SunGuide web interface. On the left is a navigation menu with categories: Basic Mode, Advanced Mode, General (with sub-items: Identification, Password, Date/Time, Display Stamping), Web Interface, Camera, Recording, Alarm, Interfaces, Network, and Service. The 'Date/Time' option under 'General' is selected and highlighted in yellow. The main content area is titled 'Date/Time' and contains the following configuration fields:

- Date format: MM/DD/YYYY (dropdown menu)
- Device date: Monday 05 / 01 / 2017
- Device time: 12 : 21 : 39 (with a 'Sync to PC' button)
- Device time zone: (UTC -5:00) Eastern Time (dropdown menu)
- Daylight saving time: Details (button)
- Time server IP address: 10.32.96.69
- Time server type: SNTP server (dropdown menu)

A 'Set' button is located at the bottom right of the configuration area. Below the fields is a link for 'Help on this page?'.

Click Set.

Click “Display Stamping”. Set the following parameters for the “Display Stamping”.

Camera name stamping: < Top >

Camera OSD: < On >

The screenshot shows the SunGuide web interface. On the left is the same navigation menu as in the previous screenshot. The 'Display Stamping' option under 'General' is selected and highlighted in yellow. The main content area is titled 'Display Stamping' and contains the following configuration fields:

- Camera name stamping: Top (dropdown menu)
- Time stamping: Off (dropdown menu)
- Display milliseconds: Off (dropdown menu)
- Alarm mode stamping: Off (dropdown menu)
- Alarm message: (text input field, max. 31 characters)
- Title OSD: Momentary (dropdown menu) Position (XY) 0 / 0 (0...255)
- Camera OSD: On (dropdown menu) Position (XY) 0 / 240 (0...255)
- Video watermarking: Off (dropdown menu)

A 'Set' button is located at the bottom right of the configuration area. Below the fields is a link for 'Help on this page?'.

Click Set.

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2. Camera Video/Encoder settings:

Click on “Camera”.

Click on “Encoder Profile”.

The screenshot displays the SunGuide web interface. On the left is a navigation menu with the following items: Basic Mode, Advanced Mode, General, Web Interface, Camera (highlighted), Encoder Profile (highlighted), Encoder Streams, Privacy Masks, Camera Settings, Lens Settings, PTZ Settings, Diagnostics, Scenes and Tours, Sectors, Miscellaneous, Logs, Audio, Pixel Counter, Recording, Alarm, Interfaces, Network, and Service. The main content area is titled "Encoder Profile" and features a tabbed interface with tabs for Profile 1 through Profile 8. Profile 1 is selected. The configuration fields for Profile 1 are: Profile name (text input: "HD high quality/low latency"), Target bit rate (text input: "5000" kbps), Maximum bit rate (text input: "10000" kbps), Encoding interval (slider: (30.00 ips)), and Video resolution (dropdown: "480p" (only for SD streams)). At the bottom right of the configuration area are buttons for "Expert Settings >>", "Default", and "Set". Below the configuration area is a link for "Help on this page?".

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Click on "Profile 6".

Set the following parameters for the **Profile 6** Tab.

Profile name: < iVEDDS >

Target bit rate: < 500 kbps>

Maximum bit rate: < 1100 kbps>

Video resolution: < 240p >

The screenshot shows the "Encoder Profile" configuration window. At the top, there are tabs for Profile 1 through Profile 8, with "Profile 6" selected. The configuration area includes the following fields:

- Profile name: iVEDDS
- Target bit rate: 500 kbps
- Maximum bit rate: 1100 kbps
- Encoding interval: A slider set to 30.00 ips
- Video resolution: 240p (only for SD streams)

At the bottom right, there are three buttons: "Expert Settings >>", "Default", and "Set". The "Set" button is highlighted in green. A "Help on this page?" link is located at the bottom left of the window.

Click Set.

SOP for CCTVs in SunGuide

Click on “Profile 8”.

Set the following parameters for the **Profile 8** Tab.

Profile name: < ITS >

Target bit rate: < 1500 kbps>

Maximum bit rate: < 3000 kbps>

Video resolution: < 240p >

Encoder Profile

Profile 1 | Profile 2 | Profile 3 | Profile 4 | Profile 5 | Profile 6 | Profile 7 | **Profile 8**

Profile name: ITS

Target bit rate: 1500 kbps

Maximum bit rate: 3000 kbps

Encoding interval: (30.00 ips)

Video resolution: 240p (only for SD streams)

Expert Settings >>

Default Set

Help on this page?

Click Set.

SOP for CCTVs in SunGuide

Click on “Encoder Streams”.

Set the following parameters for the “Encoder Streams”.

Property Stream 1: < H.264 MP 720p25/30fixed >

Non-recording profile: < 8: ITS >

Property Stream 2: < H.264 MP SD >

Non-recording profile: < 6: iVEDDS >

The screenshot displays the 'Encoder Streams' configuration interface. On the left, a navigation sidebar lists various system settings, with 'Encoder Streams' selected. The main panel is titled 'Encoder Streams' and shows 'Video 1' settings. Under 'H.264 settings', there are two columns for 'Stream 1' and 'Stream 2'. Stream 1 has 'Property' set to 'H.264 MP 720p25/30 fixed' and 'Non-recording profile' set to '8: ITS'. Stream 2 has 'Property' set to 'H.264 MP SD' and 'Non-recording profile' set to '6: iVEDDS'. A 'Preview >>' button is located below these settings. To the right, the 'JPEG stream' section includes 'Resolution' (432p), 'Max. frame rate' (25 ips), and a 'Picture quality' slider. A 'Set' button is positioned at the bottom right of the configuration area.

Click Set.

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Click on “Camera Settings”.

Ensure that the following parameters for the “Camera Settings” are set.

The screenshot displays the SunGuide web interface for camera settings. On the left, a navigation sidebar lists various settings categories, with 'Camera Settings' highlighted in yellow. The main content area, titled 'Camera Settings', contains the following parameters and their current values:

Parameter	Value / Setting
White balance	Extended ATW
Red Gain	0
Blue Gain	0
Gain control	AGC (selected)
Maximum gain level	High
AE-response speed	Medium
Sharpness	12
Shutter mode	Auto SensUP
Shutter	1/60
Backlight compensation	Off
High Sensitivity	Off
High dynamic range	Off
Night mode	Auto
Night mode threshold	30
Noise Reduction	On
Noise Reduction Level	3

At the bottom of the interface, there is a link for 'Help on this page?'.

SOP for CCTVs in SunGuide

Click on “Lens Settings”.

Ensure that the following parameters for the “Lens Settings” are set.

The screenshot displays the SunGuide web interface. On the left is a navigation sidebar with the following menu items: Basic Mode, Advanced Mode, General, Web Interface, Camera (with sub-items: Installer Menu, Encoder Profile, Encoder Streams, Privacy Masks, Camera Settings, **Lens Settings**, PTZ Settings, Diagnostics, Scenes and Tours, Sectors, Miscellaneous, Logs, Audio, Pixel Counter), Recording, Alarm, Interfaces, Network, and Service. The 'Lens Settings' page is active, showing three sections: Focus, Iris, and Zoom. The Focus section includes Autofocus (One push), Focus polarity (Normal), and Focus speed (slider at 2). The Iris section includes Auto iris (Constant), Iris polarity (Normal), and Auto iris level (slider at 8). The Zoom section includes Maximum zoom speed (Fast), Zoom polarity (Normal), and Digital zoom (On). A 'Help on this page?' link is located at the bottom of the settings area.

Section	Parameter	Value
Focus	Autofocus	One push
	Focus polarity	Normal
	Focus speed	2
Iris	Auto iris	Constant
	Iris polarity	Normal
	Auto iris level	8
Zoom	Maximum zoom speed	Fast
	Zoom polarity	Normal
	Digital zoom	On

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Click on “PTZ Settings”.

Ensure that the following parameters for the “PTZ Settings” are set.

The screenshot shows the SunGuide web interface for PTZ Settings. On the left is a navigation sidebar with the following menu items: Basic Mode, Advanced Mode, General, Web Interface, Camera (with sub-items: Installer Menu, Encoder Profile, Encoder Streams, Privacy Masks, Camera Settings, Lens Settings, **PTZ Settings**, Diagnostics, Scenes and Tours, Sectors, Miscellaneous, Logs, Audio, Pixel Counter), Recording, Alarm, Interfaces, Network, and Service. The main content area is titled 'PTZ Settings' and contains the following configuration options:

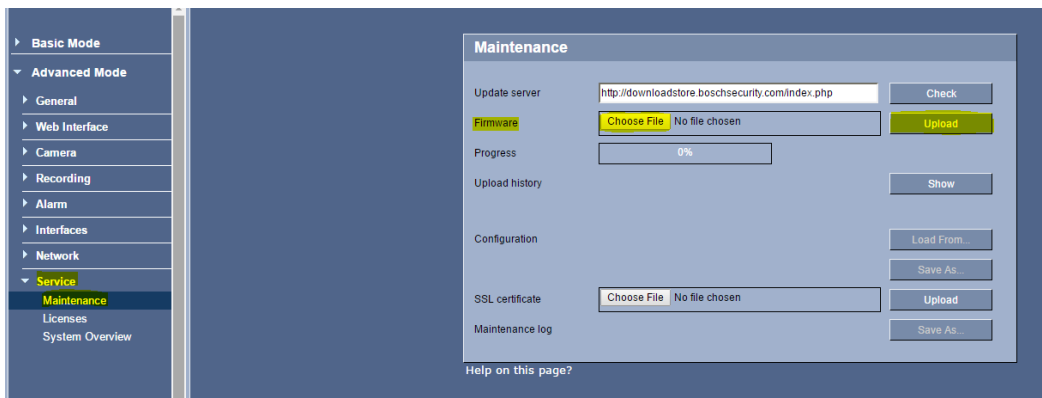
Parameter	Value / Control
Auto pan speed	Slider set to 30
Inactivity	Off
Inactivity period	2 min
Auto pivot	On
Freeze frame	On
Auto pan left limit	Set
Auto pan right limit	Set
Tilt up limit	Set
Tilt limits	Reset
Tour A	Start Recording
Tour B	Start Recording
Compass	Off
North point	Set
North point	Defaults

Help on this page?

SOP for CCTVs in SunGuide

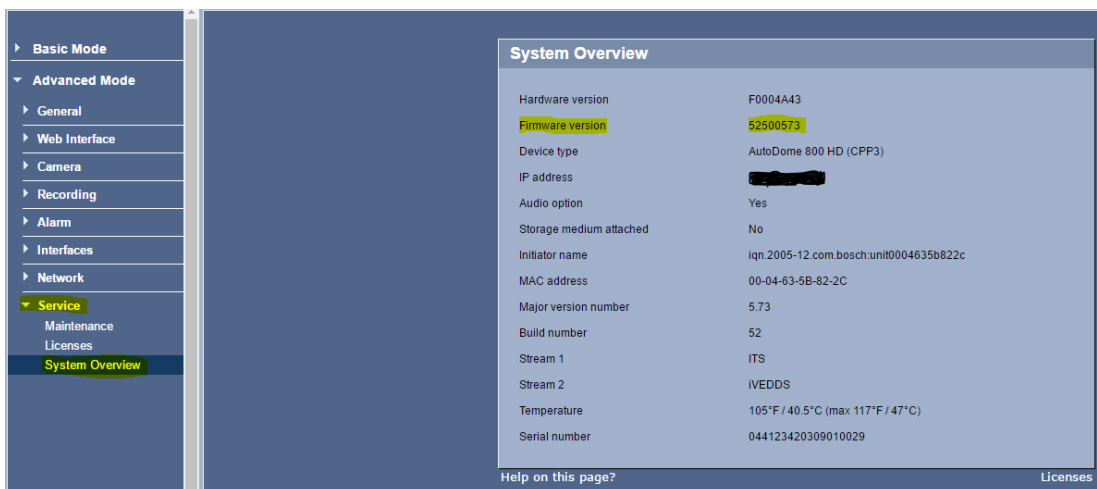
Click on “Service”.

Click on “Maintenance”. Browse and Upload the provided Firmware file for the camera.



Click on “Service”.

Click on “System Overview”. Check the System to see if the Firmware was loaded.



SOP for CCTVs in SunGuide

Click on LivePage and PTZ camera.



Log out of camera.