

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.



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Click on “Settings”.

AutoDome 800 HD

LIVEPAGE | **SETTINGS**

AutoDome 800 HD LIVEPAGE | SETTINGS 

- Basic Mode
- Device Access
- Date/Time
- Network
- Encoder
- Audio
- System Overview
- Advanced Mode



Click on “Advanced Mode”.

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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.

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The screenshot shows the SunGuide web interface. On the left is a navigation menu with categories: Basic Mode, Advanced Mode (expanded), General, Web Interface, Camera, Recording, Alarm, Interfaces, Network, and Service (expanded). Under Service, there are sub-items: Maintenance, Licenses, and System Overview (highlighted). The main content area displays the 'System Overview' page with the following information:

System Overview	
Hardware version	F0004A43
Firmware version	11500575
Device type	AutoDome 800 HD (CPP3)
IP address	[REDACTED]
Audio option	Yes
Storage medium attached	No
Initiator name	lqn.2005-12.com.bosch.unit0004635b80d5
MAC address	00-04-63-5B-80-D5
Major version number	5.75
Build number	11
Stream 1	ITS
Stream 2	IVEDDS
Temperature	96°F / 35.5°C (max: 138°F / 59°C)
Serial number	044123430914010014

At the bottom of the page, there are links for 'Help on this page?' and 'Licenses'.

Click on "Network".

Click on "Network Access".



The screenshot shows the 'Network' menu expanded in the SunGuide interface. The 'Network' item is highlighted in yellow. Underneath it, the following sub-items are listed: Network Access (highlighted in yellow), Advanced, Multicast, Image Posting, Accounts, IPv4 Filter, and Encryption. The 'Service' item is also visible at the bottom of the menu.

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

1. Network settings:

Set the following parameters for the “Network Access”.

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

Network MTU [Byte]: <1500>

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Details <<

Video transmission	TCP (HTTP port) ▼
TCP rate control	On ▼
HTTP browser port	80 ▼
HTTPS browser port	443 ▼
RCP+ port 1756	On ▼
Telnet support	On ▼
Interface mode ETH	Auto ▼
Network MSS [Byte]	1460
iSCSI MSS [Byte]	1460
Network MTU [Byte]	1500

DynDNS

Enable DynDNS	Off ▼
Provider	dyndns.org ▼
Host name	<input type="text"/>
User name	<input type="text"/>
Password	<input type="text"/>
Force registration now	<input type="button" value="Register"/>
Status	DynDNS function switched off

Click "Set and Reboot".

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

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Click on “Settings”.

AutoDome 800 HD

LIVEPAGE | ► **SETTINGS**

Click on “Advanced Mode”.

Click on “Network.”

Click on “Advanced.”

Set the following parameters for the “Advanced” setting.

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

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The screenshot shows the SunGuide web interface. On the left is a navigation sidebar with the following menu 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**: SNMP is set to 'On'. 1. SNMP host address is '0.0.0.0'. 2. SNMP host address is '0.0.0.0'. There is a 'Select' button for SNMP traps.
- 802.1x**: Authentication is 'Off'. Identity and Password fields are empty.
- RTSP**: RTSP port is '554'.
- NTCIP**: Port is '4439'. Address is '1'.
- UPnP**: UPnP is 'Off'.
- TCP metadata input**: TCP port is 'Off'. Sender IP address is '0.0.0.0'.
- Quality of service**: Audio, Video, Control, and Alarm video are all set to '0'. Post-alarm time is '15 s'.
- Cloud-based services**: User Mode is 'Auto'.

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

Click Set.

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)

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Click Set.

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>

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Camera name: <Example: SR 50 at JYP>

The screenshot shows the SunGuide web interface. On the left is a navigation menu with 'Basic Mode' and 'Advanced Mode' expanded. Under 'Advanced Mode', 'General' is expanded, and 'Identification' is selected. The main content area is titled 'Identification' and contains three input fields: 'Camera name' (with the value 'SR 40 at Williamson'), 'Camera ID', and 'Initiator extension'. A 'Set' button is located at the bottom right of the form. Below the form is a link that says 'Help on this page?'.

Click Set.

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 >

Time Server IP Address: <10.32.0.22>

The screenshot shows the SunGuide web interface with the 'Date/Time' configuration page. The left navigation menu has 'Date/Time' selected. The main content area contains several fields: 'Date format' (dropdown menu set to 'MM/DD/YYYY'), 'Device date' (calendar widget showing Wednesday, 01/29/2020), 'Device time' (time picker set to 13:17:49 with a 'Sync to PC' button), 'Device time zone' (dropdown menu set to '(UTC -5:00) Eastern Time'), 'Daylight saving time' (button labeled 'Details'), 'Time server IP address' (input field with '10.32.0.22'), and 'Time server type' (dropdown menu set to 'SNTP server'). A 'Set' button is at the bottom right. Below the form is a link that says 'Help on this page?'.

Click Set.

Click "Display Stamping". Set the following parameters for the "Display Stamping".

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Camera name stamping: < Top >

Camera OSD: < On >

The screenshot shows the 'Display Stamping' configuration page in the SunGuide interface. The left sidebar contains a navigation menu with the following items: Basic Mode, Advanced Mode, General (with sub-items: Identification, Password, Date/Time), Display Stamping (highlighted), Web Interface, Camera, Recording, Alarm, Interfaces, Network, and Service. The main configuration area is titled 'Display Stamping' and includes the following settings:

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

A 'Set' button is located at the bottom right of the configuration area. Below the configuration area, there is a link that says 'Help on this page?'.

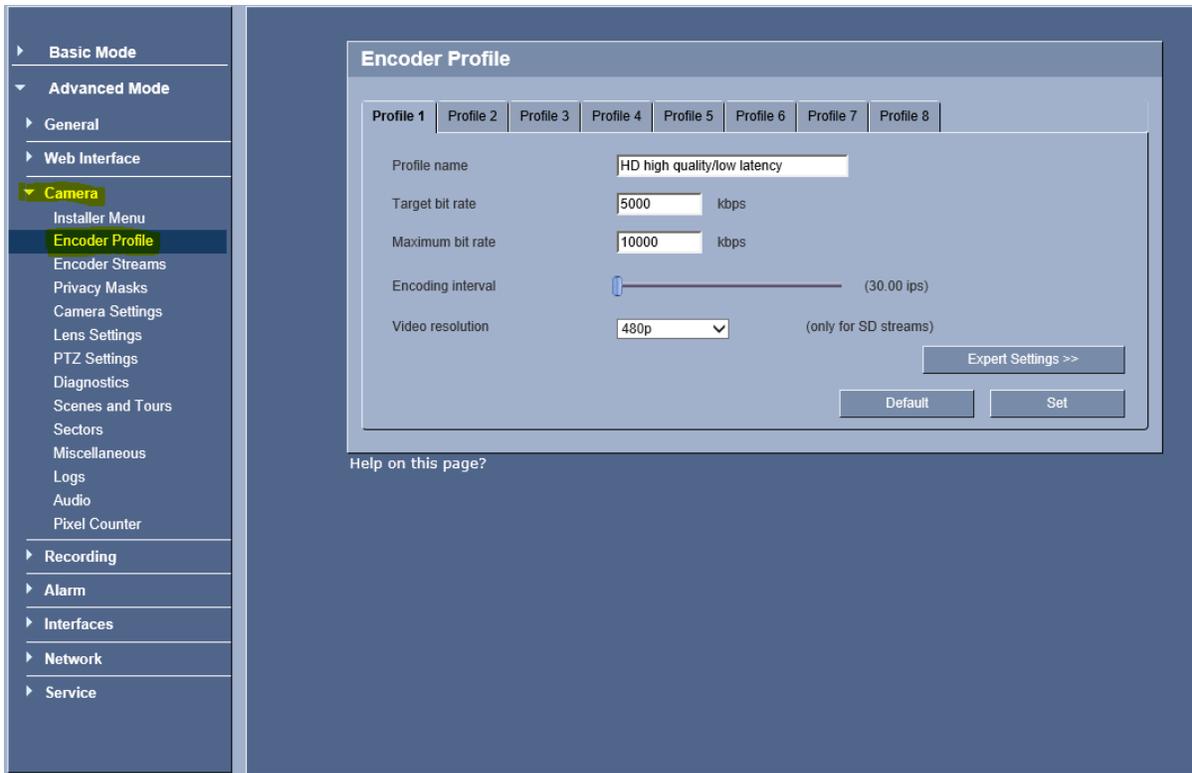
Click Set.

2. Camera Video/Encoder settings:

Click on "Camera".

Click on "Encoder Profile".

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Click on “Profile 6”.

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

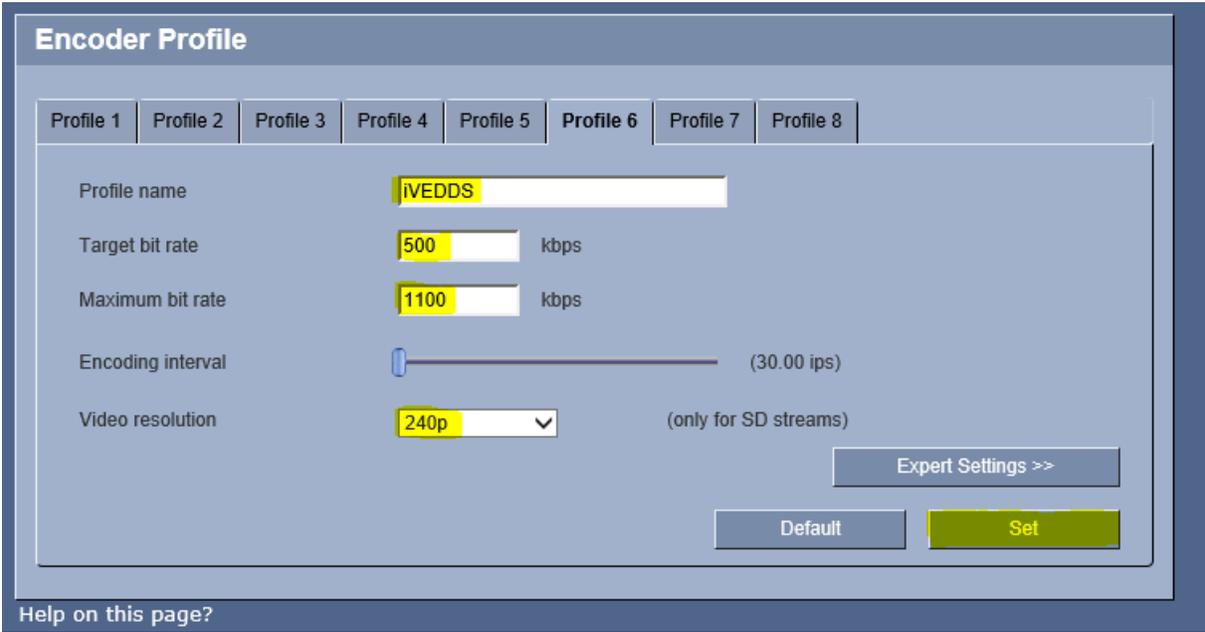
Profile name: < iVEDDS >

Target bit rate: < 500 kbps>

Maximum bit rate: < 1100 kbps>

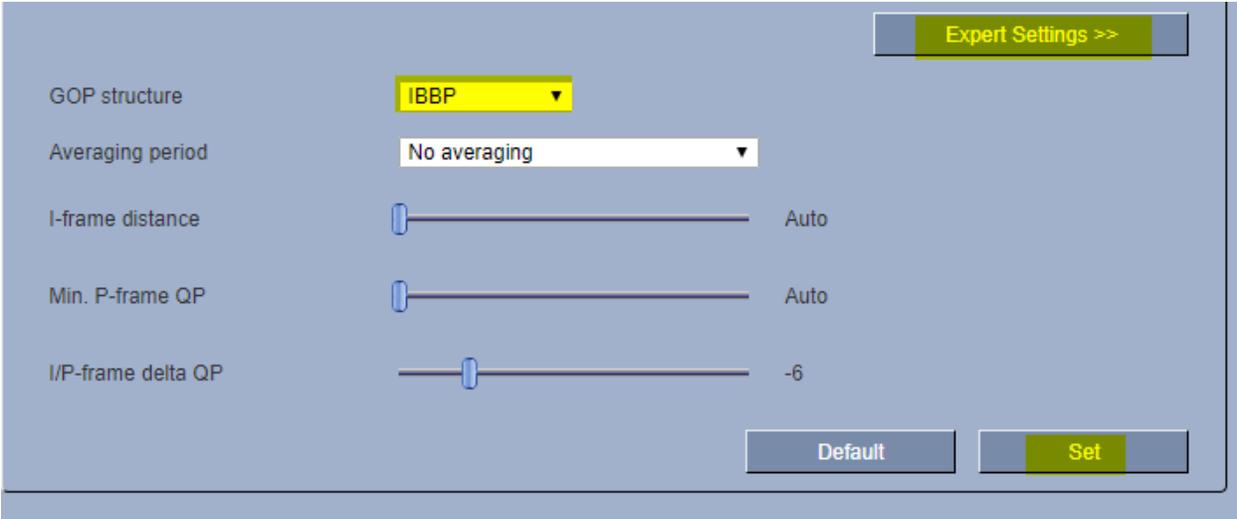
Video resolution: < 240p >

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Click Expert Settings.

GOP Structure: <IBBP>



Click Set.

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Click on “Profile 8”.

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

Profile name: < ITS >

Target bit rate: < 1500 kbps>

Maximum bit rate: < 6000 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 8 selected. Below the tabs, the following parameters are configured:

- Profile name: ITS
- Target bit rate: 1500 kbps
- Maximum bit rate: 6000 kbps
- Encoding interval: 30.00 ips (indicated by a slider)
- 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 yellow.

Click Set.

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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 menu lists various settings categories, with 'Encoder Streams' selected. The main panel is titled 'Encoder Streams' and is divided into 'H.264 settings' and 'JPEG stream' sections. Under 'H.264 settings', two streams are configured: Stream 1 with property 'H.264 MP 720p25/30 fixed' and profile '8: ITS', and Stream 2 with property 'H.264 MP SD' and profile '6: iVEDDS'. A 'Preview >>' button is present. The 'JPEG stream' section includes 'Resolution' (432p), 'Max. frame rate' (25 ips), and a 'Picture quality' slider. A 'Set' button is at the bottom right. A 'Help on this page?' link is located below 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 shows the SunGuide web interface. On the left is a navigation sidebar with the following menu items: Basic Mode, Advanced Mode, General, Web Interface, Camera (highlighted), Lens Settings, PTZ Settings, Diagnostics, Scenes and Tours, Sectors, Miscellaneous, Logs, Audio, Pixel Counter, Recording, Alarm, Interfaces, Network, and Service. Under the 'Camera' section, 'Camera Settings' is highlighted in yellow. The main content area is titled 'Camera Settings' and contains the following parameters and their current values:

Parameter	Current Value
White balance	Extended ATW
Red Gain	0
Blue Gain	0
Gain control	AGC
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 that says "Help on this page?".

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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 dark blue sidebar with a navigation menu. The menu items are: 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' item is highlighted in yellow. The main content area is titled 'Lens Settings' and is divided into three sections: Focus, Iris, and Zoom. Each section contains specific configuration options with yellow highlights on the selected values.

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

Help on this page?

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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. 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 'PTZ Settings' page is open, showing the following configuration options:

- Auto pan speed: Slider set to 30
- Inactivity: Dropdown menu set to Off
- Inactivity period: Dropdown menu set to 2 min
- Auto pivot: Radio buttons, On is selected
- Freeze frame: Radio buttons, On is selected
- Auto pan left limit: Set button
- Auto pan right limit: Set button
- Tilt up limit: Set button
- Tilt limits: Reset button
- Tour A: Start Recording button
- Tour B: Start Recording button
- Compass: Radio buttons, Off is selected
- North point: Set button
- North point: Defaults button

Help on this page?

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Click on LivePage and PTZ camera.



Log out of camera.