

SOP for CCTVs in SunGuide

GovComm GC-IMPO-FIZD(E)

This Standard Operating Procedure is to provide a standard configuration for CCTV cameras in District 5 for consistent operation in SunGuide, VLC and iVDS. 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 GovComm GC-IMPO-FIZD (E) IP camera.



SOP for CCTVs in SunGuide

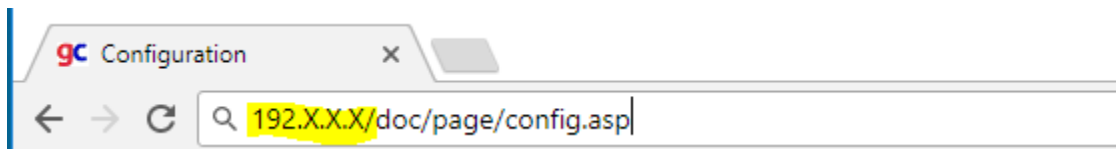
To set the camera to a default state do the following.

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

The default IP address is 192.0.0.64.

Type in the IP default IP address. <192.0.0.64>

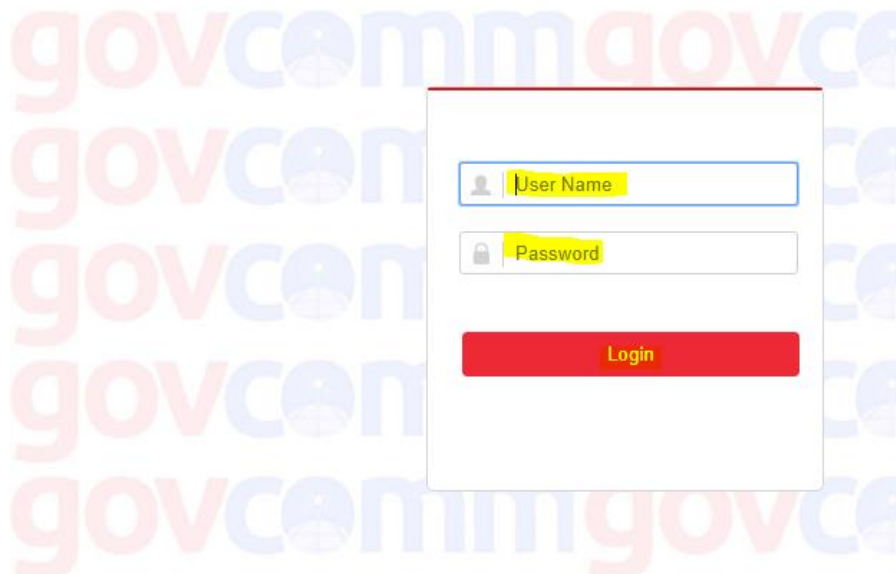
Press the Enter key.



Enter the following and Log in:

Default User Name: <Call ITS>

Default Password: <Call ITS>



Click Login or Press the Enter key.

SOP for CCTVs in SunGuide

Click on “Configuration”.

Click on “Maintenance”.

Click on “Default” button.

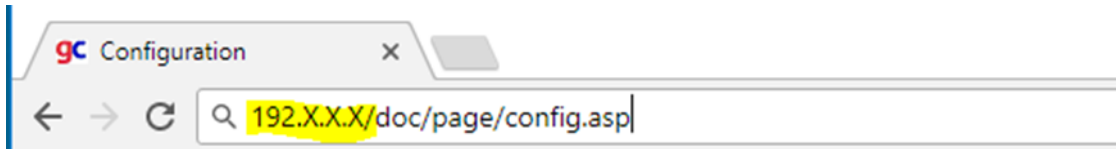
Click on “Reboot” button.

The screenshot displays the SunGuide web interface. At the top, there is a navigation bar with tabs for 'Live View', 'Playback', 'Picture', and 'Configuration' (which is highlighted in red). Below this, a secondary navigation bar shows 'Upgrade & Maintenance' (highlighted in red), 'Log', and 'System Service'. On the left side, there is a sidebar menu with various system settings categories: Local, System, System Settings, Maintenance (highlighted in yellow), Security, User Management, Network, Video/Audio, Image, PTZ, Event, Storage, and Open Platform. The main content area is titled 'Upgrade & Maintenance' and contains several sections: 'Reboot' with a 'Reboot' button and the text 'Reboot the device.'; 'Default' with a 'Restore' button and the text 'Reset all the parameters, except the IP parameters and user information, to the default settings.', and a 'Default' button with the text 'Restore all parameters to default settings.'; 'Export' with a 'Device Parameters' button; 'Import Config. File' with a 'Device Parameters' input field, 'Browse', and 'Import' buttons; and 'Upgrade' with a 'Firmware' dropdown menu, an input field, 'Browse', and 'Upgrade' buttons. Below these sections, there is a status area with a note: 'Note: The upgrading process will be 1 to 10 minutes, please don't disconnect power to the device during the process. The device reboots automatically after upgrading.' and a red link: 'Please click here to download and install the plug-in. Close the browser when installing the plug-in.'

SOP for CCTVs in SunGuide

After the camera reboots.

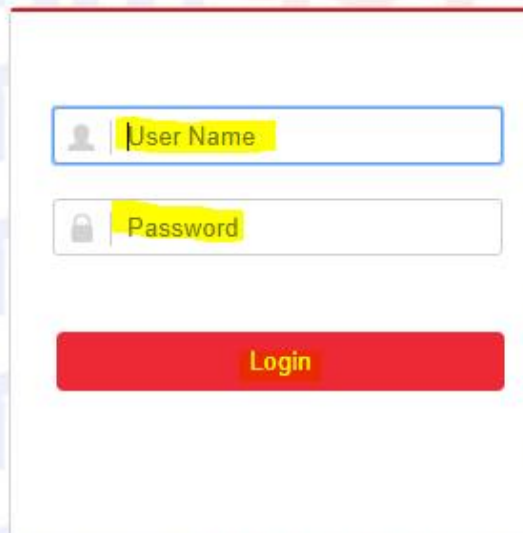
Log into the camera, using Internet Explorer or Chrome to access the camera's user interface.
Type in the default IP 192.0.0.64, User Name and Password.



Enter the following and Log in:

Default user name: <Call ITS if needed>

Default password: <Call ITS if needed>

A white login form overlay with a red border. It contains two input fields: "User Name" with a person icon and "Password" with a lock icon. Both fields have yellow highlights. Below the fields is a red "Login" button with yellow text. The background of the page features a repeating watermark of "govcommgovce" and a globe icon.

SOP for CCTVs in SunGuide

Click on “Configuration”.

Click on “Network”.

Click on “Basic Settings”.

1. Basic TCP/IP settings:

Click on “TCP/IP” menu Tab.

Set the following parameters.

IPv4 Address: <10.32.X.X>

IPv4 Subnet Mask: <255.255.255.X>

IPv4 Default Gateway: <10.32.X.X>

Multicast Address: <232.219.X.X>

Ensure that DHCP is unchecked <Uncheck box>

The screenshot displays the SunGuide Configuration interface. The top navigation bar includes 'Live View', 'Playback', 'Picture', and 'Configuration' (highlighted in red). The user is logged in as 'admin'. The left sidebar shows 'Basic Settings' selected. The main content area is titled 'TCP/IP' and contains the following settings:

- NIC Type: Auto
- DHCP (unchecked)
- IPv4 Address: 10. [redacted] (with a 'Test' button)
- IPv4 Subnet Mask: 255.255.255. [redacted]
- IPv4 Default Gateway: 10. [redacted]
- IPv6 Mode: Route Advertisement (with a 'View Route Advertisement' button)
- IPv6 Address: ::
- IPv6 Subnet Mask: 0
- IPv6 Default Gateway: ::
- Mac Address: a4:14:37:6e:42:5b
- MTU: 1500
- Multicast Address: 232.219. [redacted]
- Enable Multicast Discovery

Below these settings is a 'DNS Server' section with fields for Preferred DNS Server and Alternate DNS Server. A red 'Save' button is located at the bottom of the configuration area.

Click SAVE.

SOP for CCTVs in SunGuide

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

Click on “Port” menu Tab.

Set the following parameters.

HTTP Port: <80>

RTSP Port: <554>

HTTPS Port: <443>

Server Port: <8000>

The screenshot displays the SunGuide configuration interface. At the top, there is a navigation bar with tabs for 'Live View', 'Playback', 'Picture', 'Configuration', and user options 'admin', 'Help', and 'Logout'. The 'Configuration' tab is active. On the left side, there is a sidebar menu with categories: 'Local', 'System', 'Network', 'Basic Settings', 'Advanced Settings', 'Video/Audio', 'Image', 'PTZ', 'Event', 'Storage', and 'Open Platform'. The 'Basic Settings' category is expanded, and the 'Port' sub-tab is selected. The main content area shows four configuration items: 'HTTP Port' with a value of '80', 'RTSP Port' with '554', 'HTTPS Port' with '443', and 'Server Port' with '8000'. Each value is entered in a text input field. Below these fields is a red 'Save' button with a floppy disk icon.

Click SAVE.

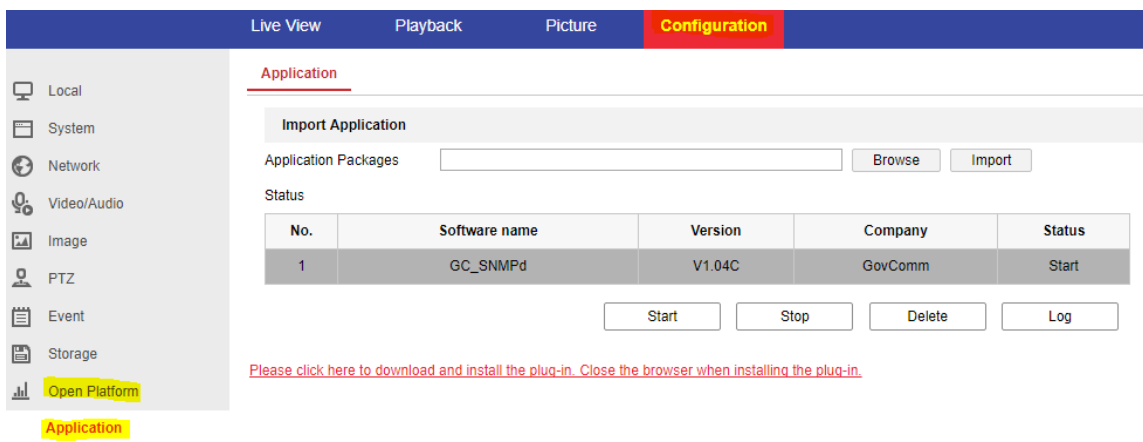
SOP for CCTVs in SunGuide

2. Installing Firmware:

Click on “Configuration”.

Click on “Open Platform”.

Click on “Application”.



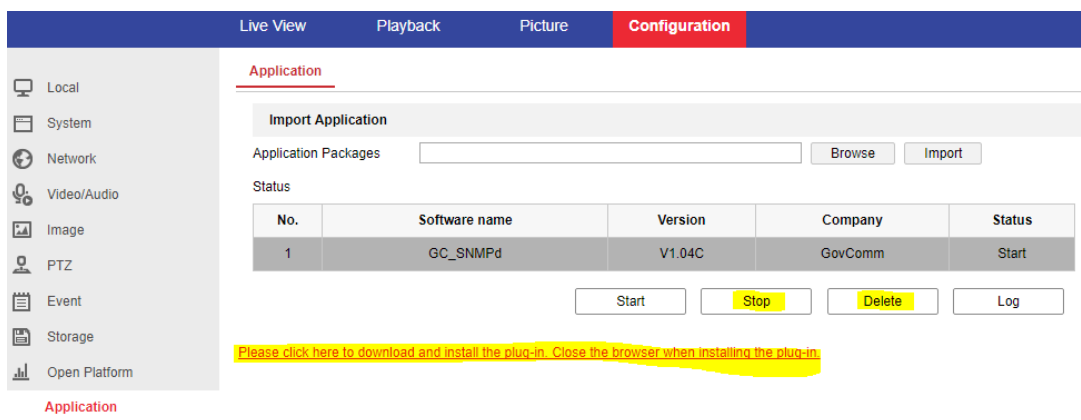
The screenshot shows the SunGuide web interface. The top navigation bar includes 'Live View', 'Playback', 'Picture', and 'Configuration' (highlighted in red). The left sidebar contains various system categories, with 'Open Platform' and 'Application' highlighted in yellow. The main content area is titled 'Application' and features an 'Import Application' section with a text input for 'Application Packages' and 'Browse' and 'Import' buttons. Below this is a 'Status' table with the following data:

No.	Software name	Version	Company	Status
1	GC_SNMPd	V1.04C	GovComm	Start

Below the table are buttons for 'Start', 'Stop', 'Delete', and 'Log'. A red text link at the bottom reads: 'Please click here to download and install the plug-in. Close the browser when installing the plug-in.'

Click “Stop” and “Delete” for the 2 applications SNMPd and Compass version 1.03.

Download and install the plug-in.



This screenshot is identical to the previous one, but with the 'Stop' and 'Delete' buttons highlighted in yellow. Additionally, the red text link at the bottom is highlighted in yellow.

SOP for CCTVs in SunGuide

Install plugin and unzip file GC_SNMPd_V1.04C.zip

Unzip the new app and install it by browsing to the location and import.

Unzip file IPD_R3_EN_NEU_5.3.0_151102.zip

The screenshot shows the SunGuide Configuration page. The top navigation bar includes 'Live View', 'Playback', 'Picture', and 'Configuration' (highlighted in red). A left sidebar lists various system components: Local, System, Network, Video/Audio, Image, PTZ, Event, Storage, and Open Platform. The main content area is titled 'Application' and contains an 'Import Application' section with an 'Application Packages' input field and 'Browse' and 'Import' buttons. Below this is a 'Status' table with the following data:

No.	Software name	Version	Company	Status
1	GC_SNMPd	V1.04C	GovComm	Start

Below the table are buttons for 'Start', 'Stop', 'Delete', and 'Log'. A red text note at the bottom reads: 'Please click here to download and install the plug-in. Close the browser when installing the plug-in.'

Start the new application. You should see the new V1.04C installed.

This screenshot is identical to the one above, but the row for the installed application (No. 1, GC_SNMPd, V1.04C, GovComm, Start) is highlighted in yellow to indicate it is successfully installed and ready to be started.

SOP for CCTVs in SunGuide

Click on “Configuration”.

Click on “System”.

Click on “Maintenance”.

Browse and navigate to the file digicap.dav

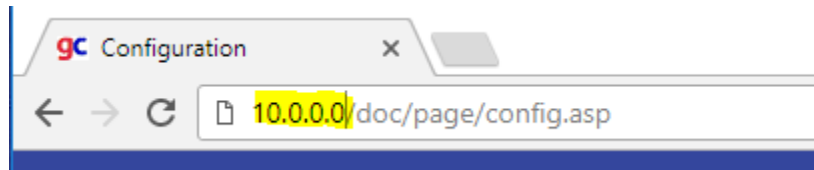
Select Upgrade.

The screenshot displays the SunGuide web interface. The top navigation bar includes 'Live View', 'Playback', 'Picture', and 'Configuration' (highlighted in red). The user 'admin' is logged in. The left sidebar shows a tree view with 'System' and 'Maintenance' highlighted in yellow. The main content area is titled 'Upgrade & Maintenance' and contains several sections: 'Reboot' with a 'Reboot' button; 'Default' with 'Restore' and 'Default' buttons; 'Export' with a 'Device Parameters' button; 'Import Config. File' with a 'Device Parameters' input field and 'Browse' and 'Import' buttons; and 'Upgrade' with a 'Firmware' dropdown, an input field, and 'Browse' and 'Upgrade' buttons. A yellow highlight covers the 'Upgrade' section and a note below it: 'Note: The upgrading process will be 1 to 10 minutes, please don't disconnect power to the device during the process. The device reboots automatically after upgrading.' A red link at the bottom reads: 'Please click here to download and install the plug-in. Close the browser when installing the plug-in.'

Note: The upgrade process will take 1 to 10 minutes. Do not disconnect power to the device. The device will reboot automatically after upgrading.

SOP for CCTVs in SunGuide

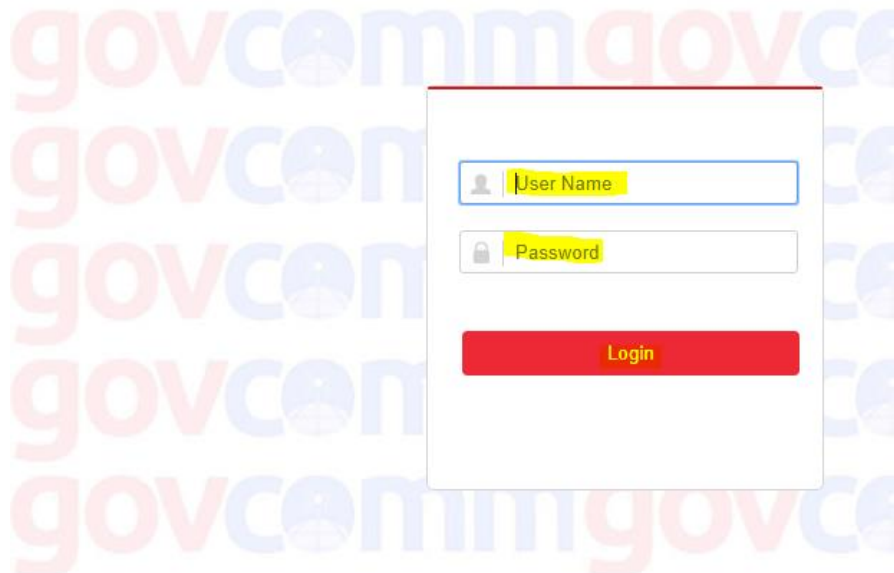
After the camera reboots. Log back into the camera with the newly assigned IP address.



Enter the following and Log in:

User name: <Call ITS if needed>

Password: <Call ITS if needed>



Click Login or Press the Enter key.

SOP for CCTVs in SunGuide

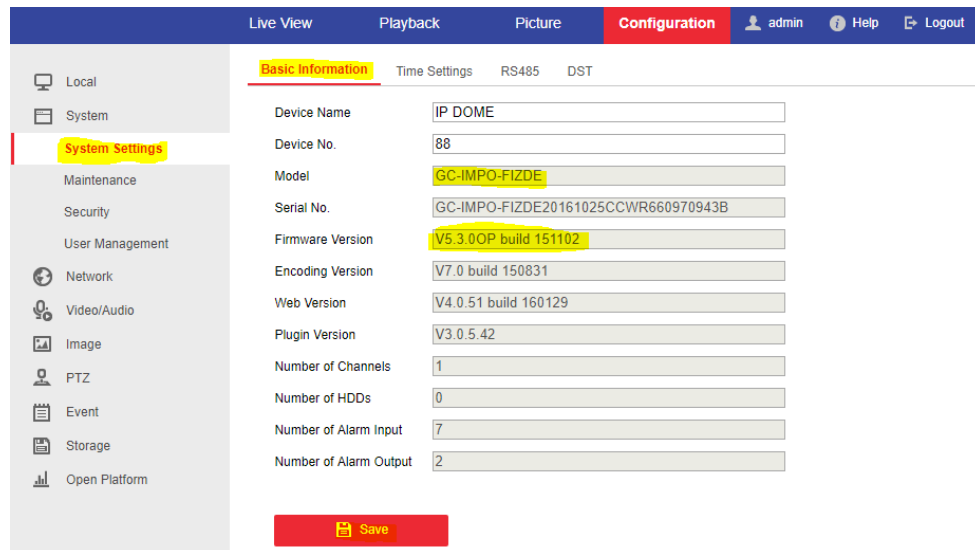
3. System Options settings:

Click on “Configuration”.

Click on “System”.

Click on the “System Settings”.

Verify the Firmware Version under the Basic Information tab.



The screenshot shows the SunGuide web interface. The top navigation bar includes 'Live View', 'Playback', 'Picture', 'Configuration' (highlighted in red), 'admin', 'Help', and 'Logout'. The left sidebar contains a menu with 'Local', 'System', 'System Settings' (highlighted in yellow), 'Maintenance', 'Security', 'User Management', 'Network', 'Video/Audio', 'Image', 'PTZ', 'Event', 'Storage', and 'Open Platform'. The main content area is titled 'Basic Information' and contains the following fields:

Parameter	Value
Device Name	IP DOME
Device No.	88
Model	GC-IMPO-FIZDE
Serial No.	GC-IMPO-FIZDE20161025CCWR660970943B
Firmware Version	V5.3.0OP build 151102
Encoding Version	V7.0 build 150831
Web Version	V4.0.51 build 160129
Plugin Version	V3.0.5.42
Number of Channels	1
Number of HDDs	0
Number of Alarm Input	7
Number of Alarm Output	2

A red 'Save' button is located at the bottom of the configuration area.

Click on “Time Settings”.

Set the following parameters for Date and Time.

Time Zone select: <GMT-05:00 Eastern Time (US & Canada)>

NTP (check box): <10.32.0.22>

Interval: <1 Minute>

SOP for CCTVs in SunGuide

Local
System

System Settings

Maintenance
Security
User Management

Network
Video/Audio
Image
PTZ
Event
Storage
Open Platform

Basic Information **Time Settings** DST RS485

Time Zone (GMT-05:00) Eastern Time(US&Canada)

NTP

NTP

Server Address 10.32.0.22 ✓

NTP Port 123 ✓

Interval 1 min ✓

Test

Manual Time Sync.

Manual Time Sync.

Device Time 2020-02-03T13:14:39

Set Time 2020-02-03T13:13:23 Sync. with computer time

Save

Click **SAVE**.

Click on **“DST”**.

Set the following parameters for **DST**.

Local
System

System Settings

Maintenance
Security
User Management

Network
Video/Audio
Image
PTZ
Event
Storage

Basic Information Time Settings RS485 **DST**

Enable DST

Start Time Mar Second Sun 02

End Time Nov First Sun 02

DST Bias 60min

Save

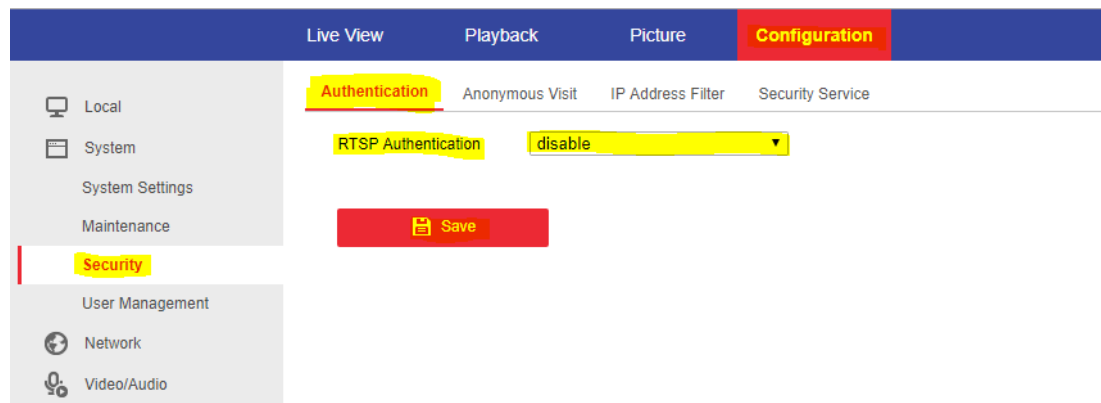
Click **Save**.

SOP for CCTVs in SunGuide

Click on “Security”.

Click on “Authentication”.

Disable RTSP Authentication.



Click Save.

4. Video Stream settings:

Click on “Video/Audio”.

Set the following parameters for the Video Stream.

Stream Type1: <Main Stream (Normal)>

Video Type: <Video Stream>

Resolution: <1280*720P>

Bitrate Type: <Variable>

Video Quality: <Highest>

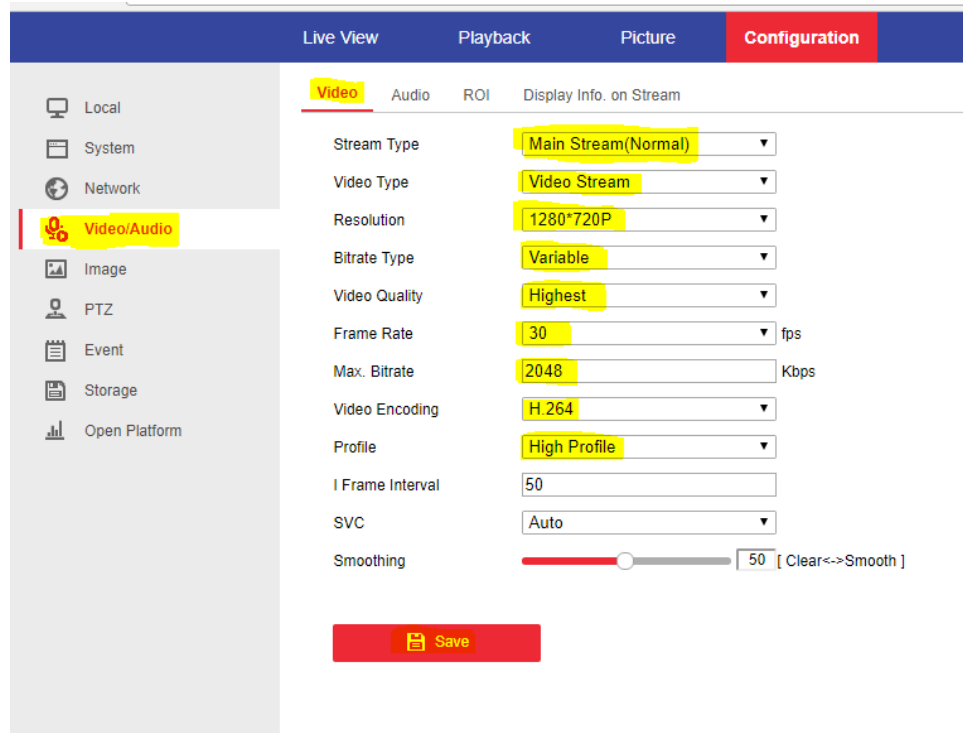
Frame Rate: <30 fps>

Max Bitrate: <2048 kbit/s>

Video Encoding: <H.264>

Profile: <High Profile>

SOP for CCTVs in SunGuide



Click Save.

Click on “Video/Audio”.

Set the following parameters for the Video Stream.

Stream Type1: <Third Stream>

Video Type: <Video Stream>

Resolution: <704*480>

Bitrate Type: <Variable>

Video Quality: <Medium>

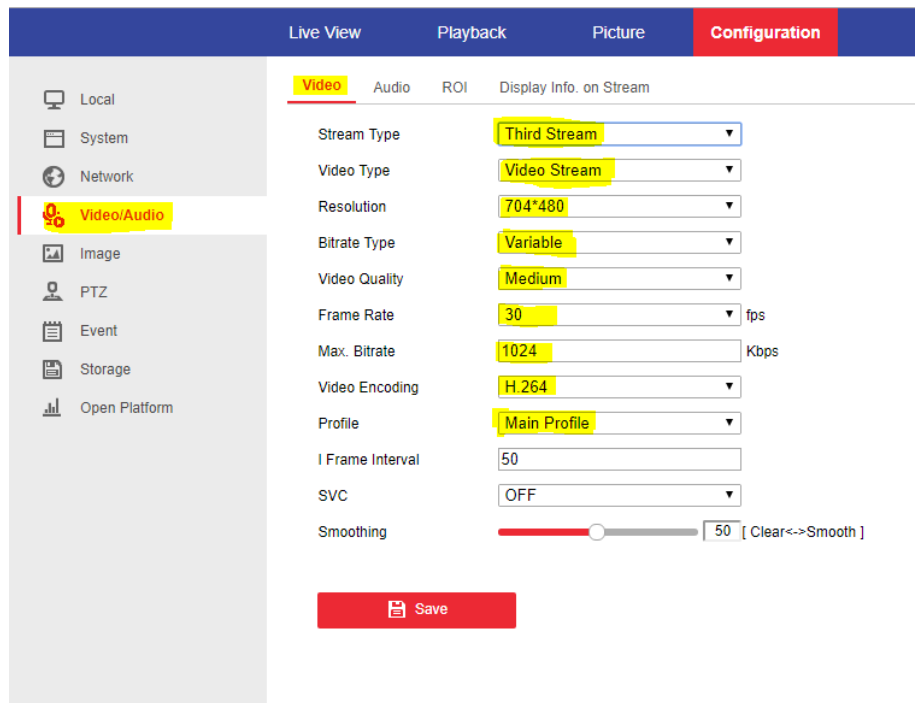
Frame Rate: <30 fps>

Max Bitrate: <1024 kbit/s>

Video Encoding: <H.264>

Profile: <Main Profile>

SOP for CCTVs in SunGuide



Click Save.

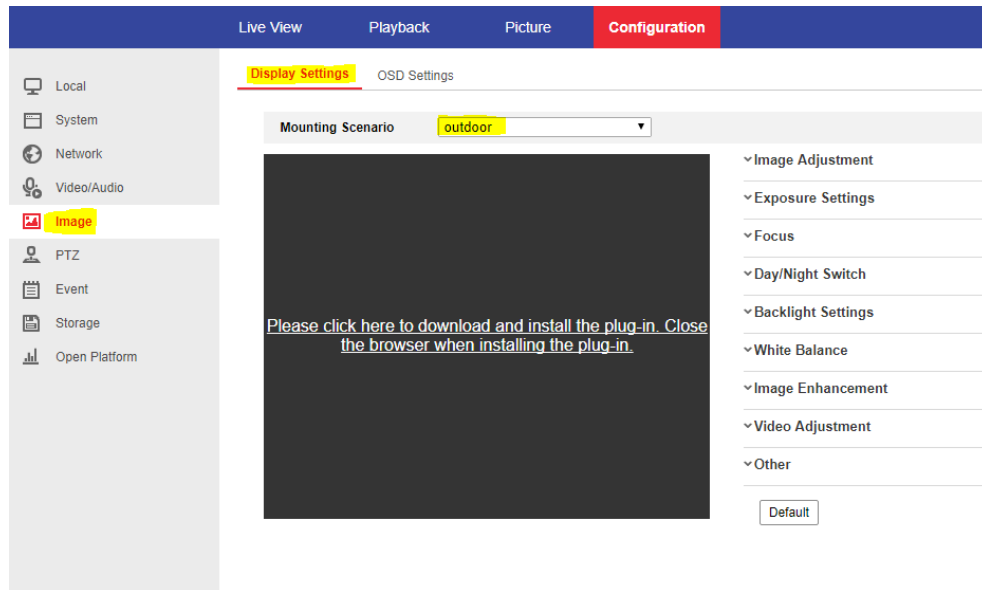
Click on “Image”.

Click on “Display Settings”.

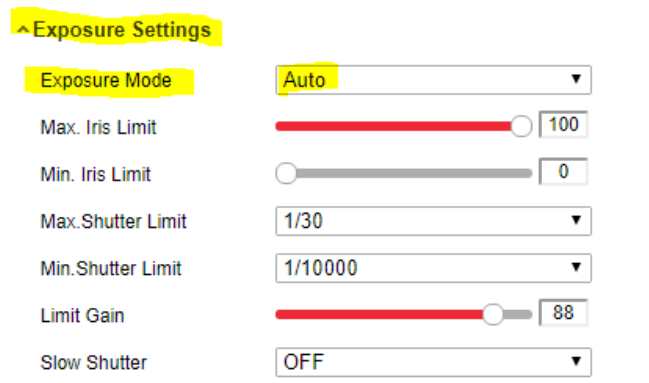
Set the following parameters for the Display Settings.

Mounting Scenario: <outdoor>

SOP for CCTVs in SunGuide



Exposure Setting Mode: <Auto>



Focus Mode: <Auto, Focus Distance 10 cm>

SOP for CCTVs in SunGuide

Image Adjustment

Exposure Settings

Focus

Focus Mode

Min. Focus Distance

Day/Night Switch

Day/Night Switch: <Auto, Sensitivity 2>

Exposure Settings

Focus

Day/Night Switch

Day/Night Switch

Sensitivity

Backlight Settings

Video Adjustment: <NTSC(60Hz)>

White Balance

Image Enhancement

Video Adjustment

Mirror

Video Standard

Capture Mode

Other

Click on “Image”.

Click on “On Screen Display (OSD) Settings”.

Set the following parameters for the OSD settings.

SOP for CCTVs in SunGuide

- Display Name:* <Check the box>
- Camera Name:* <Roadway, Direction, at Mile Marker 000.0>
- For example:* <I-75_NB_at_MM_354.3>
- Display Mode:* <Transparent & Not flashing>
- OSD Size:* <Auto>
- Font Color:* <Black&White Self-adaptive>

The screenshot shows the SunGuide Configuration interface. The top navigation bar includes 'Live View', 'Playback', 'Picture', and 'Configuration'. The left sidebar lists various settings categories: Local, System, Network, Video/Audio, Image (highlighted), PTZ, Event, Storage, and Open Platform. The main content area is titled 'Display Settings' and 'OSD Settings'. A central preview window displays the text: 'Please click here to download and install the plug-in. Close the browser when installing the plug-in.' Below the preview, there are dropdown menus for 'Display Mode' (set to 'Transparent & Not flashing'), 'OSD Size' (set to 'Auto'), 'Font Color' (set to 'Black&White Self-adaptive'), and 'Alignment' (set to 'Custom'). To the right, there are checkboxes for 'Display Name' (checked), 'Display Date', and 'Display Week'. Below these are input fields for 'Camera Name' (set to 'I-95 NB at MM 239.8'), 'Time Format' (set to '24-hour'), and 'Date Format' (set to 'MM-DD-YYYY'). A 'Text OverLay' section contains eight numbered checkboxes, with the first one checked. A red 'Save' button is located at the bottom of the configuration area.

Click Save.

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

SOP for CCTVs in SunGuide

Click on “PTZ”.

Click on “Basic Settings”.

Set the following parameters.

Enable Proportional Pan: <check the box>

The screenshot displays the SunGuide Configuration interface. The top navigation bar includes 'Live View', 'Playback', 'Picture', and 'Configuration'. The left sidebar lists various system components, with 'PTZ' highlighted. The main content area shows the 'Basic Settings' tab for PTZ, with 'Enable Proportional Pan' checked. Other settings include 'Enable Preset Freezing' (unchecked), 'Preset Speed' (4), 'Manual Control Speed' (Compatible), 'Keyboard Control Speed' (Medium), 'Auto Scan Speed' (28), and 'Zooming Speed' (3). The 'PTZ OSD' section includes 'Zoom Status', 'PT Status', and 'Preset Status', all set to 2s. The 'Power Off Memory' section has 'Set Resume Time Point' set to 30s. A red 'Save' button is located at the bottom of the settings area.

Click Save.

Click Logout and OK.

