

# SOP for CCTVs in SunGuide

## TKH SIQURA HSD626

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 THK Siquira HSD626 IP camera.

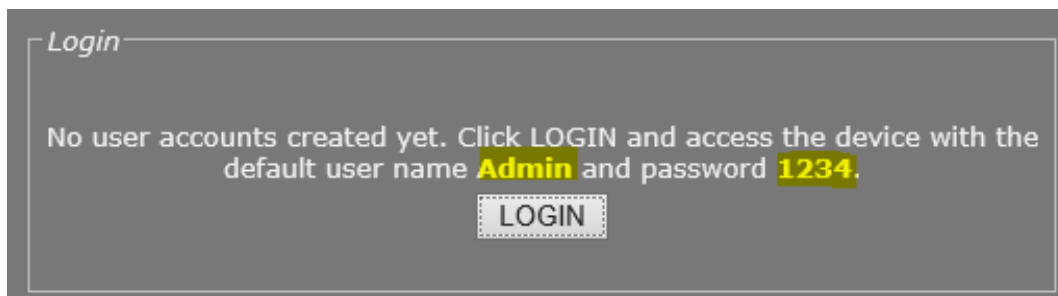
**Log into the camera, using Internet Explorer or Chrome to access the camera's user interface. Type in the default IP address.**



**Enter the following:**

*Default user name:* <Admin>

*Default password:* <1234>



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

# SOP for CCTVs in SunGuide



HSD626/N 3460\_I-75\_NB\_MM\_354.3

The screenshot shows the SunGuide interface for a live video feed. On the left is a sidebar with the following menu items: Live Video, Status, Network, Video, Audio, CC Streams, PTZ, Security, Edge Recording, Event Management, Device Management, User Management, Date and Time, and Logout. The main area is titled 'Live Video' and contains a video player showing a highway with cars. The video has an overlay with the text '3460 I-75 NB MM 354.3' and 'NW 335/00'. Below the video, there is a 'PTZ Control' panel with a directional pad and a 'Preset' panel with a numeric keypad and a 'GO' button. At the bottom right, there is an 'On Screen Menu' section with an 'On' button. The top right of the interface displays the camera ID 'HSD626/N 3460\_I-75\_NB\_MM\_354.3'.

Click on "Network".

- Live Video
- Status
- Network**
- Video
- Audio
- CC Streams
- PTZ
- Security
- Edge Recording
- Event Management
- Device Management
- User Management
- Date and Time
- Logout

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## 1. Network settings:

Set the following parameters for the Network.

<i>Host name</i>	<Cabinet Label>
<i>IP address</i>	<10.32.X.X>
<i>Subnet mask</i>	<255.255.255.X>
<i>Gateway</i>	<10.32.X.X>

**Network**

Network Settings

Hostname: Cabinet Label

IP address: 10.0.0.0

Subnet mask: 255.255.255.0

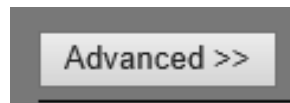
Gateway: 10.0.0.0

To activate the network settings, click "Save and Reboot".  
Note: After reboot, the connection will be lost!

Advanced >>

Save and Reboot Cancel

Click on the "Advanced" button.



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Set the following parameters for the Network.

*RTSP server is enabled:* <Check box>  
*RTSP server port:* <554> (default)  
*DHCP is disabled:* <Unchecked box>

**Network**

*Network Settings*

Hostname: Cabinet Label  
IP address: 10.32.0.0  
Subnet mask: 255.255.255.0  
Gateway: 10.32.0.0

To activate the network settings, click "Save and Reboot".  
Note: After reboot, the connection will be lost!

<< Simplified

*Advanced Settings*

**Services**

RTSP server enable:   
RTSP server port: 554

**Network**

DHCP enable:   
Ethernet mode: Auto  
MTU size: Ethernet (1500)

Save and Reboot Cancel

Click **SAVE** and Reboot.

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

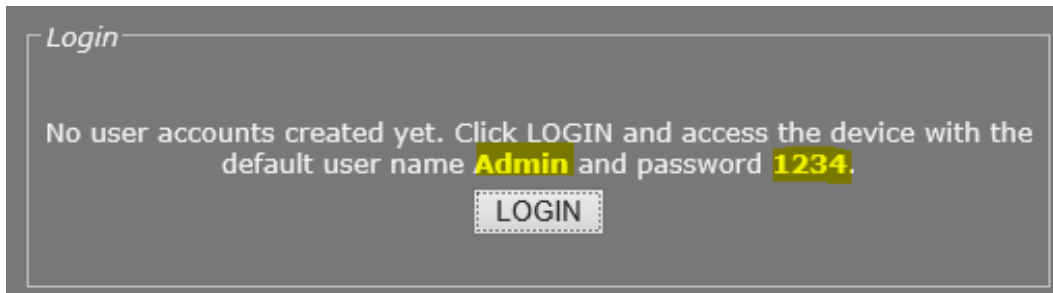


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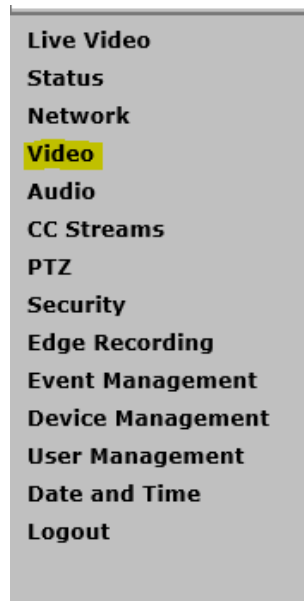
Enter the following:

Default user name: <Admin>

Default password: <1234>



Click on "Video".



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## 2. Encoder/Video settings:

Set the following parameters for the “General” tab.

*Video setting*

*Camera module configuration*

*Encoder Priorities*



General Encoder 1 Encoder 2 H.264 - 1 H.264 - 2 Live View OSD VMD FTP Push Image Monitor Tamper Detect

*Video Settings*

Video source: Interlaced ▾  
Deinterlacing: Motion adaptive (M.A.D.) ▾  
Show Preview >>

Contrast: 100 %  
Brightness: 100 %  
Color saturation: 100 %  
Hue: 0 °  
Sharpness: 100 %

Default

*Camera module configuration*

Day/night control: Auto ▾  
Backlight compensation:   
Wide dynamic range:   
Electronic Image Stabilization:

*Encoder Priorities*

Encoder	Priority
Encoder 1	Low (3) ▾
Encoder 2	Medium (2) ▾
Live View Encoder	High (1) ▾

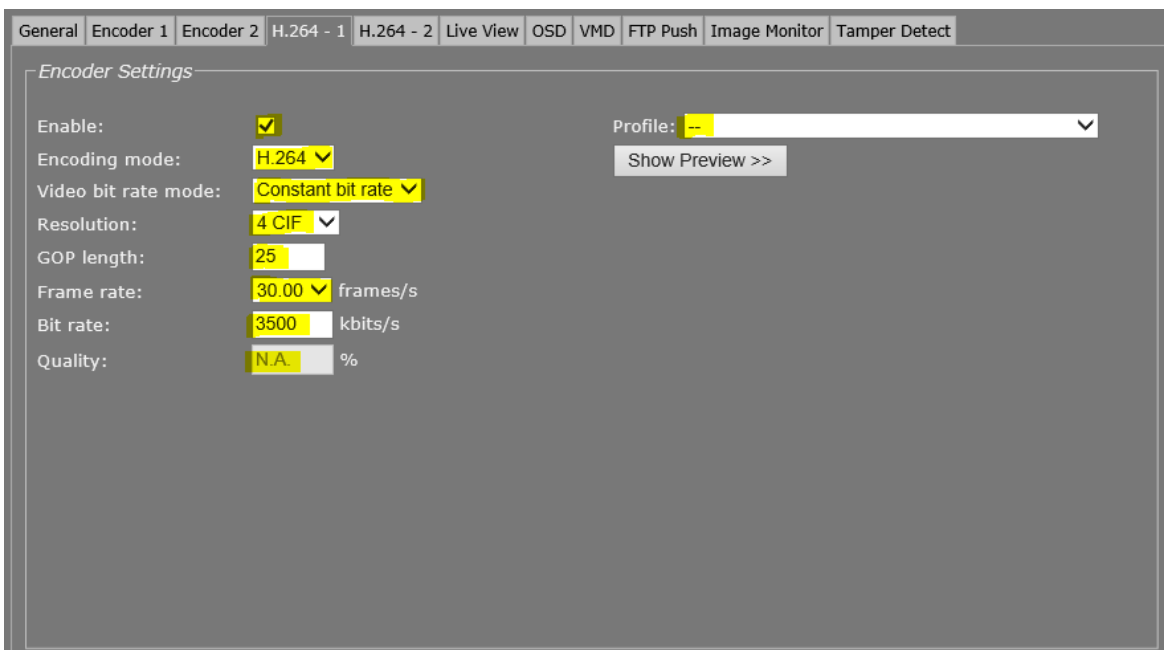
Click **SAVE**.

# SOP for CCTVs in SunGuide

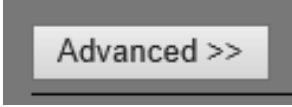
Set the following parameters for the “H.264- 1” tab.

Match the image below for all of the fields.

*Enable:* <Check box>  
*Encoding mode:* <H.264>  
*Video bit rate mode:* <Constant bit rate>  
*Resolution:* <4 CIF>  
*GOP length:* <25>  
*Frame rate:* <30.00 frames/s>  
*Bit rate:* <3500 kbits/s>  
*Quality:* <N.A. %>  
*Profile:* <- ->



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A rectangular button with a grey background and a white border. The text "Advanced >>" is centered in the button in a grey font.

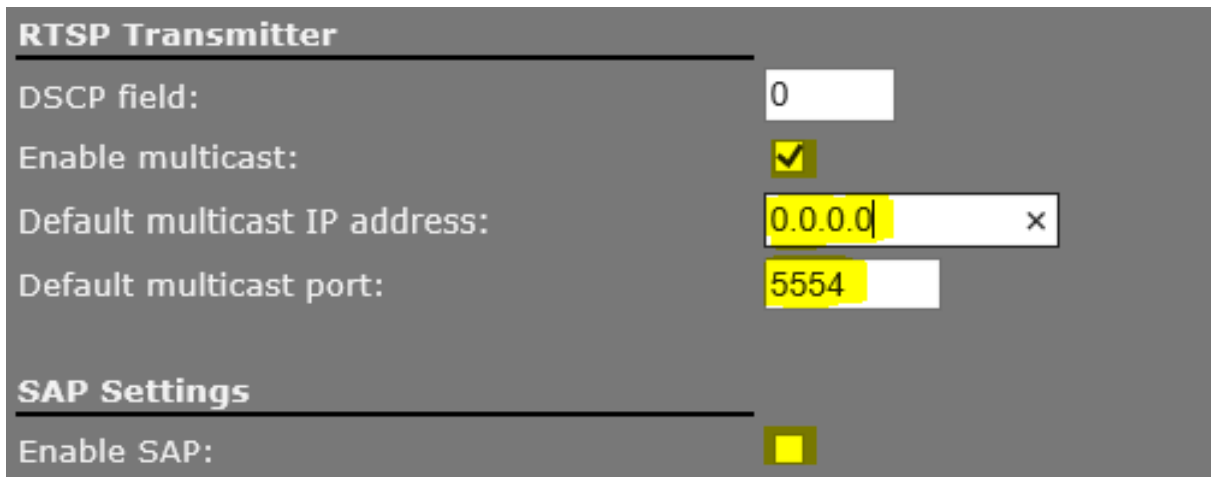
Click on the “Advanced” button.

Set the following parameters for RTSP Transmitter and SAP Settings.

Enter the multicast IP address: <0.0.0.0>

Enter the multicast port: <5554>

Enable SAP (ensure SAP is disabled) : <unchecked box>

A screenshot of a web-based configuration interface. The background is dark grey. The interface is divided into two sections: "RTSP Transmitter" and "SAP Settings".  
Under "RTSP Transmitter":

- "DSCP field:" is followed by a text input box containing the number "0".
- "Enable multicast:" is followed by a checked checkbox.
- "Default multicast IP address:" is followed by a text input box containing "0.0.0.0" and a small "x" icon to clear the field.
- "Default multicast port:" is followed by a text input box containing "5554".

Under "SAP Settings":

- "Enable SAP:" is followed by an unchecked checkbox.

Click SAVE.



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Set the following parameters for the “H.264- 2” tab.

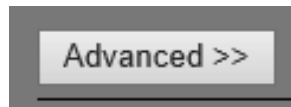
Match the image below for all of the fields.

*Enable:* <Check box>  
*Encoding mode:* <H.264>  
*Video bit rate mode:* <Constant bit rate>  
*Resolution:* <CIF>  
*GOP length:* <25>  
*Frame rate:* <30.00 frames/s>  
*Bit rate:* <1000 kbits/s>  
*Quality:* <N.A. %>  
*Profile:* <- ->



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Click on the “Advanced” button.

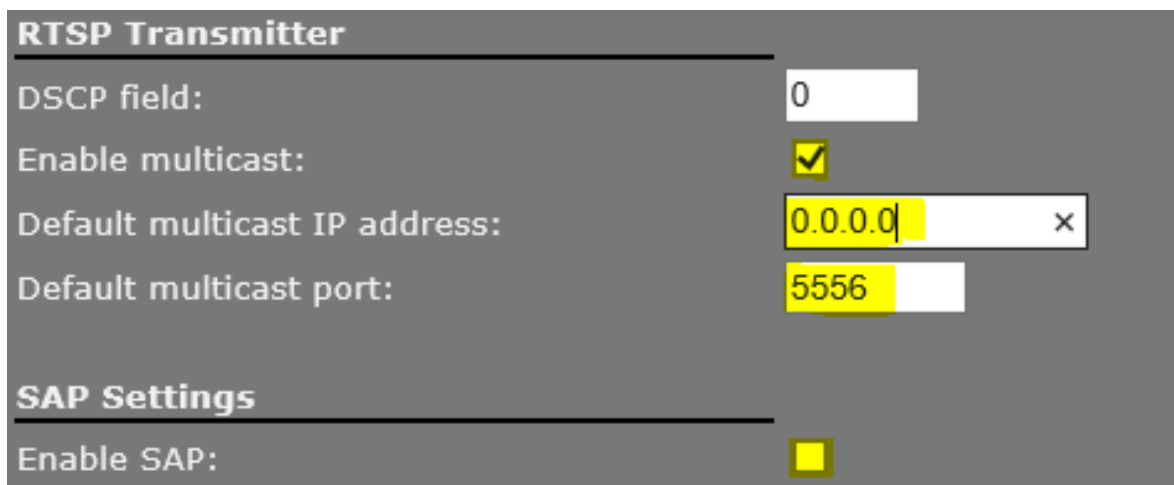


Set the following parameters for RTSP Transmitter and SAP Settings.

Enter the multicast IP address: <0.0.0.0>

Enter the multicast port: <5556>

Enable SAP (ensure SAP is disabled) : <unchecked box>

A screenshot of a configuration interface with a dark grey background. The "RTSP Transmitter" section is separated from the "SAP Settings" section by a horizontal line. In the "RTSP Transmitter" section, there are four rows: "DSCP field:" with a text input containing "0"; "Enable multicast:" with a checked checkbox; "Default multicast IP address:" with a text input containing "0.0.0.0" and a clear button (x); and "Default multicast port:" with a text input containing "5556". In the "SAP Settings" section, there is one row: "Enable SAP:" with an unchecked checkbox. The input fields and checkboxes are highlighted with a yellow glow.

Click SAVE.

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Set the following parameters for the On Screen Display “(OSD)” tab.

*Text 1: Enable:* <Check box>

*OSD Text:* <Enter CCTV number, Roadway, Direction, MileMarker, 000.0>

For example: **3460\_I-75\_NB\_MM\_354.3**

*Text color:* <White>

*Border/Outline color:* <Black>

*Font size:* <20>

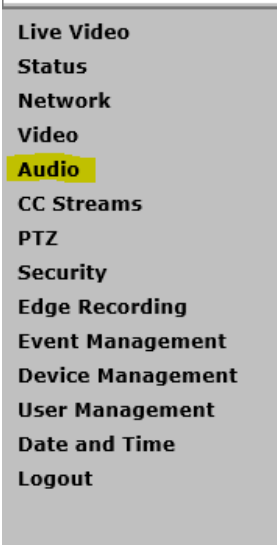
*Predefined positions:* <Top left>

The screenshot shows the 'Video' configuration page in SunGuide, specifically the 'OSD' tab. The 'Text' section is active, showing three text entries. Text 1 is enabled and configured with the text '3460\_I-75\_NB\_MM\_3', 'Date and Time' as '--', and 'Measurements' as '--'. Below this, the 'Text 1' configuration sub-section is visible, where 'Text color' is set to 'White', 'Border/outline color' to 'Black', 'Font size' to '20', and 'Predefined positions' to 'Top left'. There are also sliders for 'Transparency', 'X Position', and 'Y Position', all set to 0, 5, and 5 respectively. A 'Show Preview >>' button is present. At the bottom of the sub-section is an 'Advanced >>' button.

Click **SAVE**.

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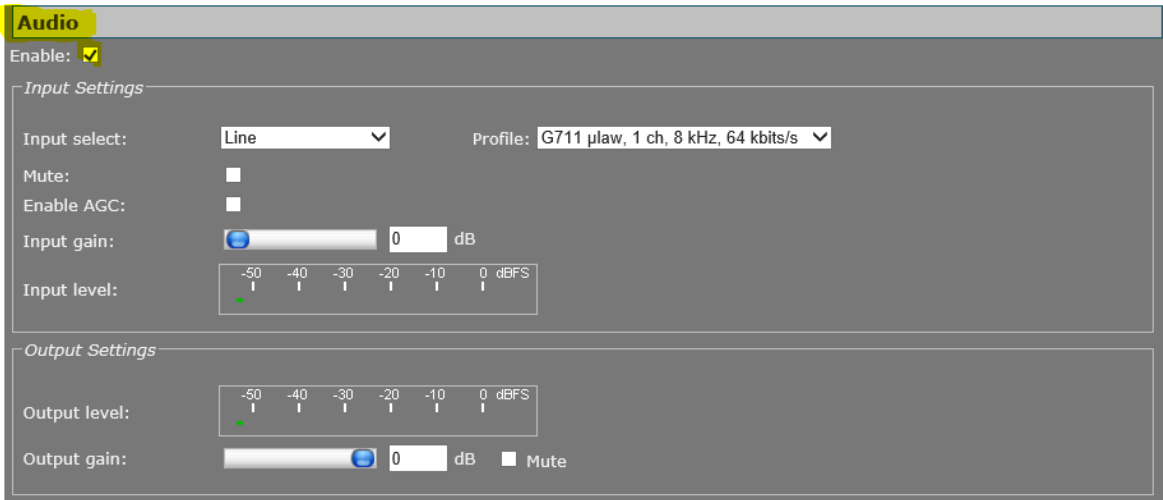
Click on "Audio".



### 3. Audio settings:

Match the image below for all of the fields.

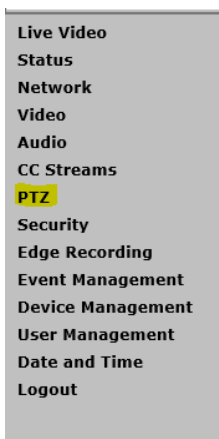
Enable time service: <Check box>



Click SAVE.

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Click on "PTZ".



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

Match the image below for all of the fields.

Enter Camera ID/address: <1>

Select PTZ driver: <Pelco-D.js>

TCP server enable: <Check box>

TCP server port: <1024>

The screenshot shows the PTZ settings page with the following sections and values:

- Camera Settings**
  - Camera ID/address: 1
  - Select PTZ driver: Pelco-D.js
- PTZ Driver Management**
  - File: [text input] Browse... Add
  - Table:

Filename	Size(kB)
Pelco-D.js	24
Pelco-D_bidir.js	24

 Del
- MX Transmitter Settings**

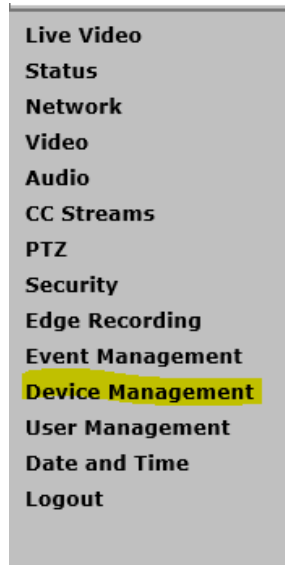
Transmitter	Enable	Dest. address	Port
1	<input type="checkbox"/>	0.0.0.0	52010
- MX Receiver Settings**

Receiver	Enable	Source address	Port
1	<input type="checkbox"/>	0.0.0.0	55000
- TCP Server Settings**
  - Server enable:
  - Server port: 1024
- Advanced >>
- Save Cancel

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Click SAVE.

Click on “Device Management”.

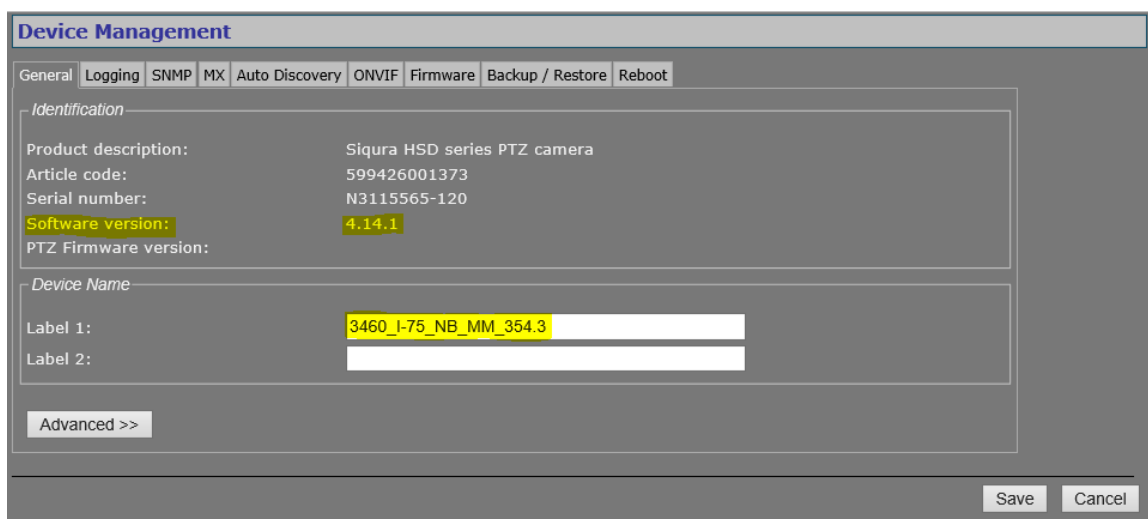


## 5. Device Management settings:

Set the following parameters for the “General” tab.

Check Software version: <4.14.1>

Check Device Name / Label1: <3460\_I-75\_NB\_MM\_354.3>



The screenshot shows the 'Device Management' configuration page. At the top, there are tabs for General, Logging, SNMP, MX, Auto Discovery, ONVIF, Firmware, Backup / Restore, and Reboot. The 'General' tab is selected. Below the tabs, there are two sections: 'Identification' and 'Device Name'. In the 'Identification' section, the 'Software version' field is highlighted in yellow and contains the value '4.14.1'. In the 'Device Name' section, the 'Label 1' field is highlighted in yellow and contains the value '3460\_I-75\_NB\_MM\_354.3'. At the bottom of the page, there are 'Save' and 'Cancel' buttons.

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Click **SAVE**.

Set the following parameters for the “SNMP” tab.

Match the image below for all of the fields.

Check *SNMP*:

*Read*: <public>

*Read/Write*: <private>

*Trap*: <public>

*Port*: <161>

*Version*: <v2>

The screenshot shows the 'Device Management' interface with the 'SNMP' tab selected. The configuration is as follows:

- SNMP System Information:** Contact, Name, and Location fields are empty.
- SNMP Communities:** Read: public, Read/Write: private, Trap: public.
- SNMP Agent:** Port: 161.
- SNMP Traps:** Version: v2 (selected), Destination IP : port: 0.0.0.0 : 162, Alternative destination IP : port: 0.0.0.0 : 162, Enable authentication trap: .

Buttons for 'Save' and 'Cancel' are visible at the bottom right.

Click **SAVE**.

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Set the following parameters for the “MX” tab.

Enable MX: <Check box>

The screenshot shows the 'Device Management' window with the 'MX' tab selected. The 'MX/IP' section has 'Enable MX' checked. The 'MX Notifications' section has the following values: IP address: 255.255.255.255, Port: 8655, Unsolicited notifications interval: 60 s, Retransmission count: 2, and Retransmission interval: 1 s. 'Save' and 'Cancel' buttons are at the bottom right.

Click SAVE.

Set the following parameters for the “Auto Discovery” tab.

Enable UPnP: <Unchecked box>

The screenshot shows the 'Device Management' window with the 'Auto Discovery' tab selected. The 'UPnP' section has 'Enable UPnP' unchecked. The 'Device Name' section has the label '758\_I-75\_NB\_@\_MM\_354.3'. 'Save' and 'Cancel' buttons are at the bottom right.



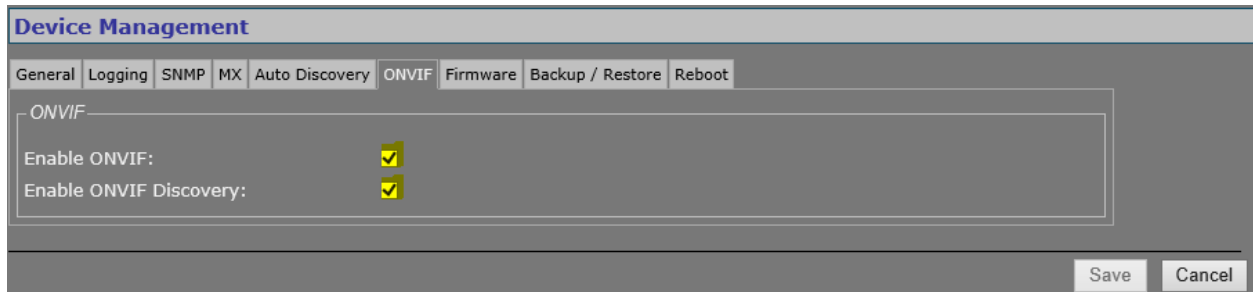
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Click **SAVE**.

Set the following parameters for the “ONVIF” tab.

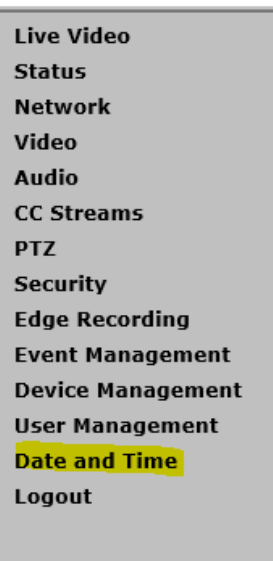
*Enable ONVIF:* <Check box>

*Enable ONVIF Discovery:* <Check box>



Click **SAVE**.

Click on “Date and Time”.



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## 6. SNTP/Date and Time settings:

*Enable time service to automatic:* <Check box>

*IP address from DHCP:* <Unchecked box>

*Time server IP address:* <will be provided by FDOT>

*Time server query interval:* < 1 minute>

**Date and Time**

*Date and Time*

Date: 2016 - 12 - 01 (yyyy-mm-dd)  
Local time: \* 21 : 22 : 55 (hh:mm:ss)  
Time zone: (GMT+0:00) ▾

Daylight saving time (DST):  
 Off (standard time)  
 On (daylight saving time)  
 Automatic

To daylight saving time: ☀ In March ▾ on the last ▾ Sunday ▾ at 2:00 ▾  
To standard time: 🌙 In October ▾ on the last ▾ Sunday ▾ at 3:00 ▾

*SNTP Settings*

Enable time service:   
IP address from DHCP:   
Time server IP address: 224.0.1.1  
Time service query interval: 1 min

Advanced >>

Save Cancel

**Click SAVE.**

# SOP for CCTVs in SunGuide

Log out of device.

