

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.

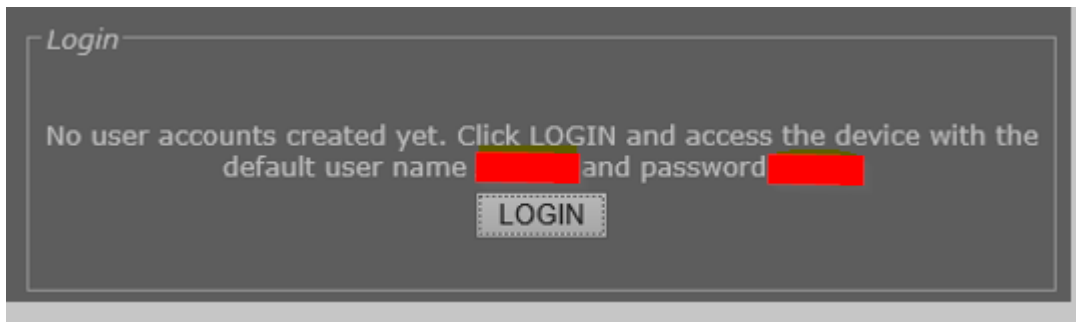
Log into the camera, using Internet Explorer or Chrome to access the camera's user interface. Type in the default IP address.



Enter the following:

Default user name: <Call ITS>

Default password: <Call ITS>



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

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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 of the interface has a yellow header with the SIQURA logo and the camera ID 'HSD626/N 3460_I-75_NB_MM_354.3'.

Click on "Network".

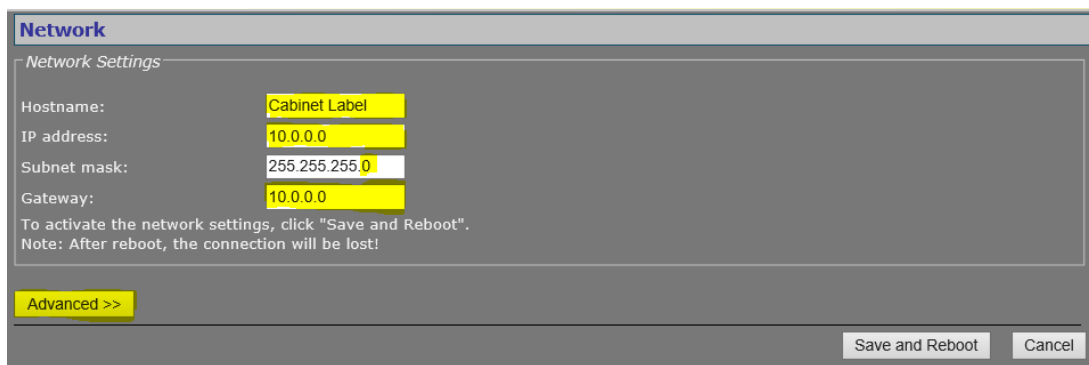
- Live Video
- Status
- Network**
- Video
- Audio
- CC Streams
- PTZ
- Security
- Edge Recording
- Event Management
- Device Management
- User Management
- Date and Time
- Logout

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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>



The screenshot shows a 'Network' configuration window with the following fields and values:

Hostname:	Cabinet Label
IP address:	10.0.0.0
Subnet mask:	255.255.255.0
Gateway:	10.0.0.0

Below the fields, there is a note: "To activate the network settings, click 'Save and Reboot'. Note: After reboot, the connection will be lost!"

At the bottom left, there is a yellow button labeled "Advanced >>". At the bottom right, there are two buttons: "Save and Reboot" and "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.

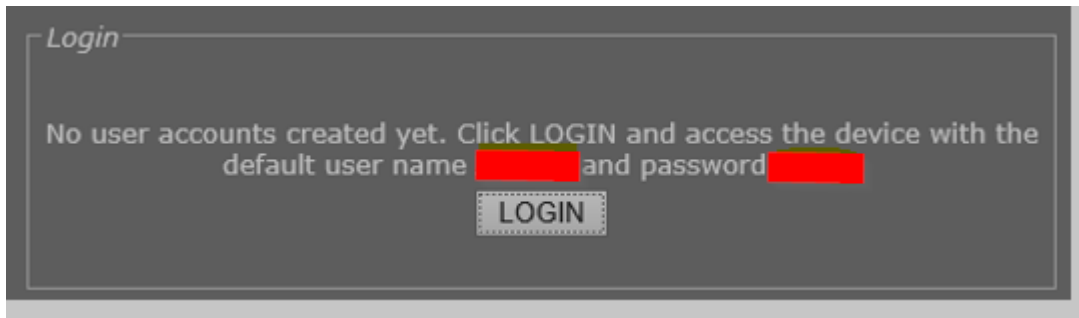


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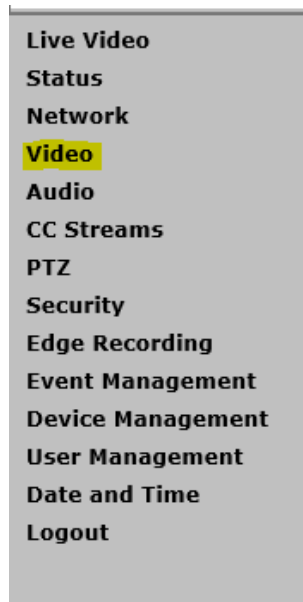
Enter the following:

Default user name: <Call ITS if needed>

Default password: <Call ITS if needed>



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



The screenshot shows the SunGuide web interface with the 'General' tab selected. The interface is divided into three main sections: Video Settings, Camera module configuration, and Encoder Priorities.

Video Settings

- Video source: Interlaced (dropdown)
- Deinterlacing: Motion adaptive (M.A.D.) (dropdown)
- Show Preview >> (button)
- Contrast: 100 % (slider)
- Brightness: 100 % (slider)
- Color saturation: 100 % (slider)
- Hue: 0 ° (slider)
- Sharpness: 100 % (slider)
- Default (button)

Camera module configuration

- Day/night control: Auto (dropdown)
- Backlight compensation:
- Wide dynamic range:
- Electronic Image Stabilization:

Encoder Priorities

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

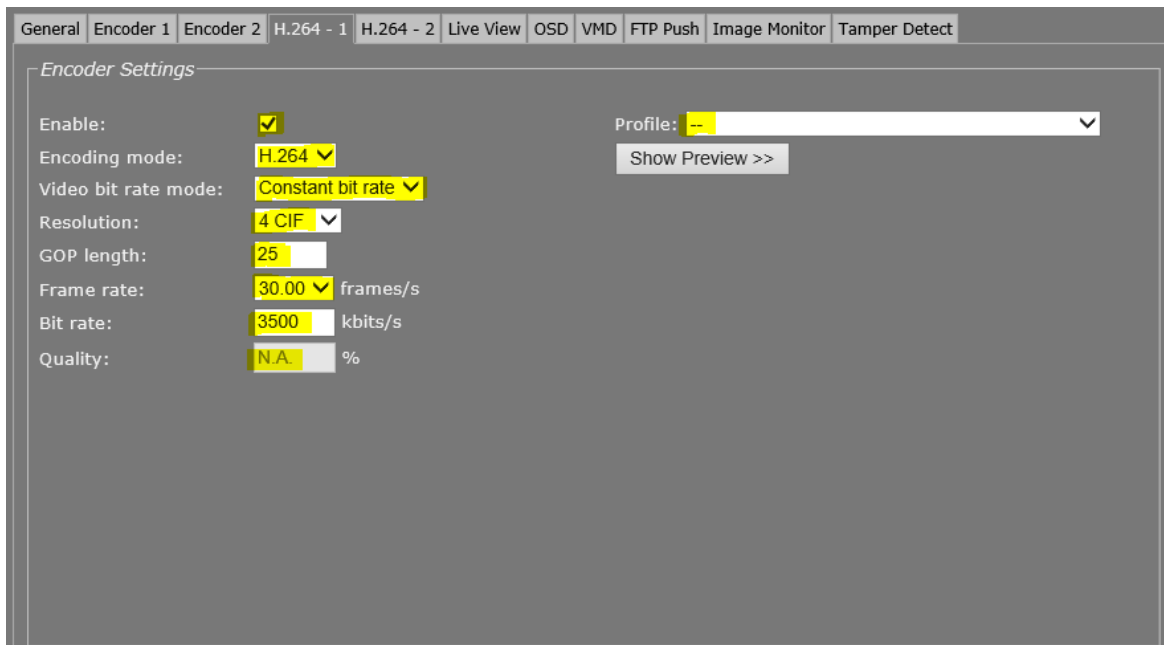
SOP for CCTVs in SunGuide

Click **SAVE**.

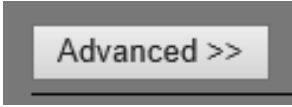
Set the following parameters for the “H.264- 1” tab.

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.

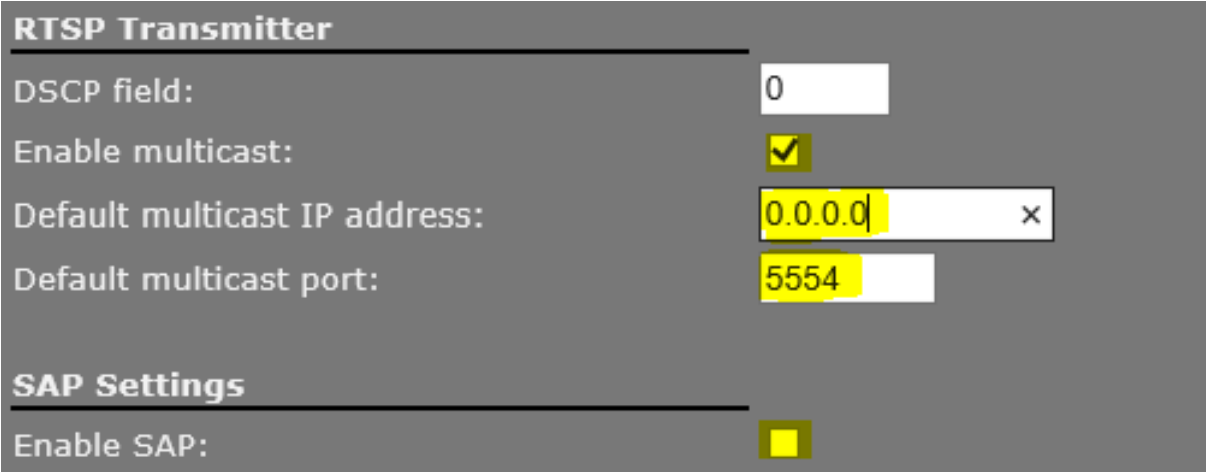
Click on the “Advanced” button.

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

Under "SAP Settings":

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

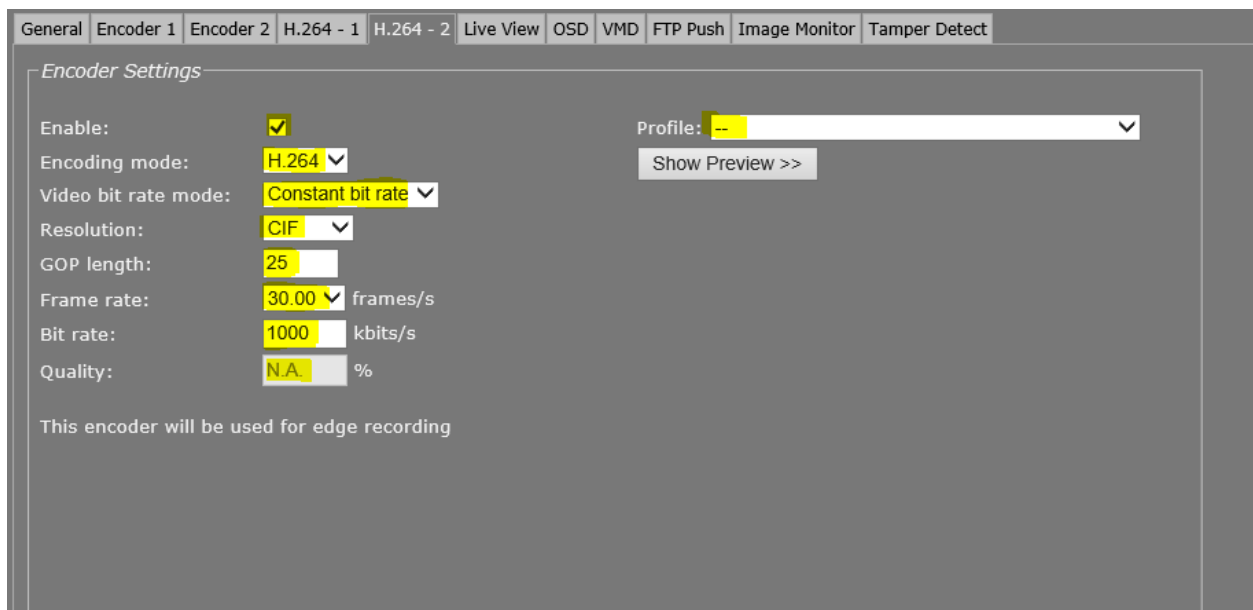
Click SAVE.

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

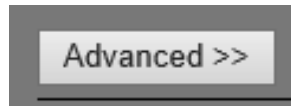
Match the image below for all of the fields.

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.

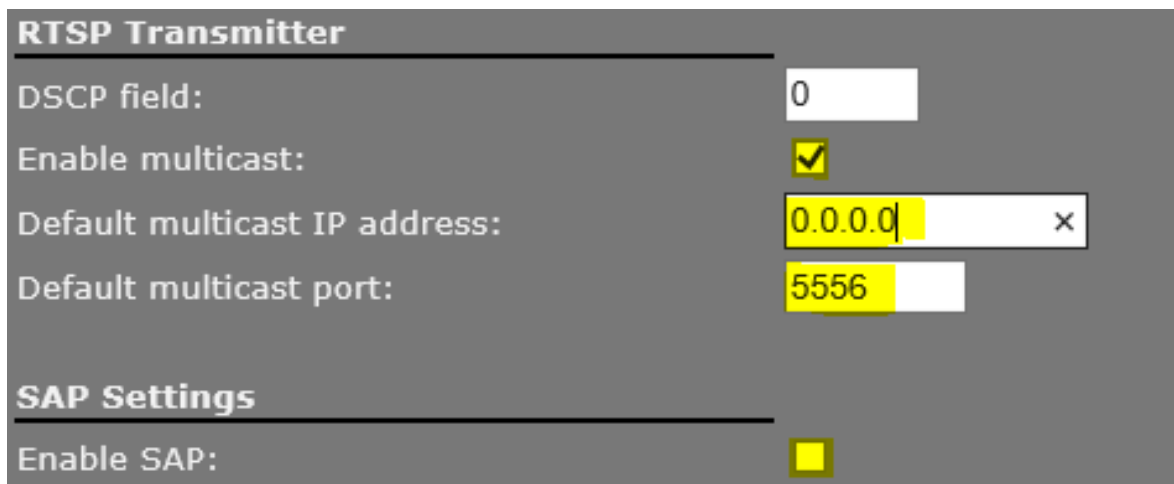


Set the following parameters for RTSP Transmitter and SAP Settings.

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 panel with a dark grey background. The panel is divided into two sections: "RTSP Transmitter" and "SAP Settings".
Under "RTSP Transmitter":

- DSCP field: 0
- Enable multicast:
- Default multicast IP address: 0.0.0.0 (with a clear 'x' button)
- Default multicast port: 5556

Under "SAP Settings":

- Enable SAP:

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 expanded, showing three text entries. Text 1 is enabled and configured with the text '3460_I-75_NB_MM_3', 'Date and Time' set to '--', and 'Measurements' set to '--'. Below this, the 'Text 1' configuration sub-section is visible, where 'Text color' is set to 'White', 'Border/outline color' is 'Black', 'Font size' is '20', and 'Predefined positions' is '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 next to the color and font settings, and an 'Advanced >>' button is at the bottom left of the configuration area.

Video

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

Text

	OSD Text	Date and Time	Measurements
Text 1: Enable: <input checked="" type="checkbox"/>	3460_I-75_NB_MM_3	<< --	<< --
Text 2: Enable: <input type="checkbox"/>		<< --	<< --
Text 3: Enable: <input type="checkbox"/>		<< --	<< --
Graphic: Enable: <input type="checkbox"/>	-- Disabled --		

Text 1 Text 2 Text 3 Graphics

Text color: White

Border/outline color: Black

Font size: 20

Predefined positions: Top left

Transparency: 0 %

X Position: 5 %

Y Position: 5 %

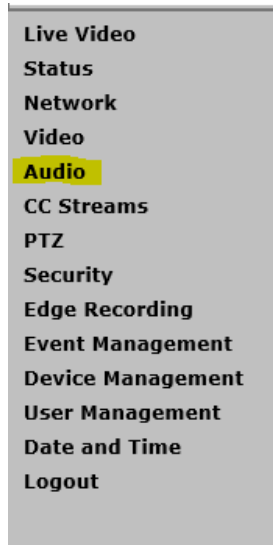
Show Preview >>

Advanced >>

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Click SAVE.

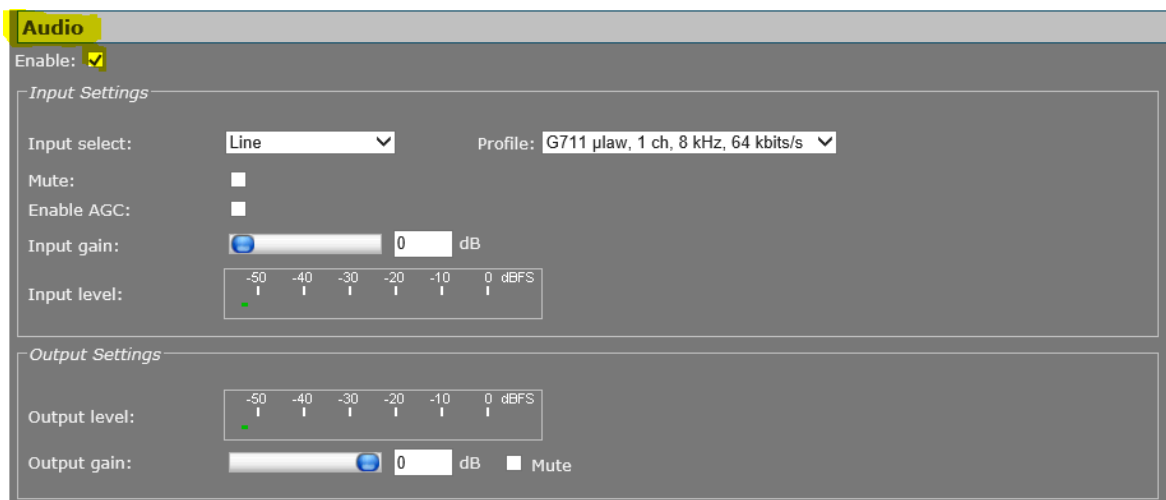
Click on "Audio".



3. Audio settings:

Match the image below for all of the fields.

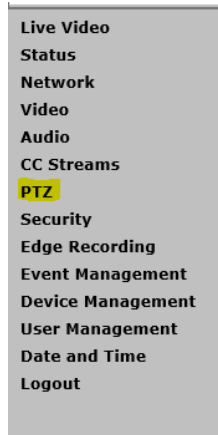
Enable time service: <Check box>



Click SAVE.

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Click on "PTZ".



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

Match the image below for all of the fields.

<i>Enter Camera ID/address:</i>	<1>
<i>Select PTZ driver:</i>	<Pelco-D.js>
<i>TCP server enable:</i>	<Check box>
<i>TCP server port:</i>	<1024>

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PTZ

Camera Settings

Camera ID/address: 1

Select PTZ driver: Pelco-D.js

PTZ Driver Management

File: Browse... Add

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

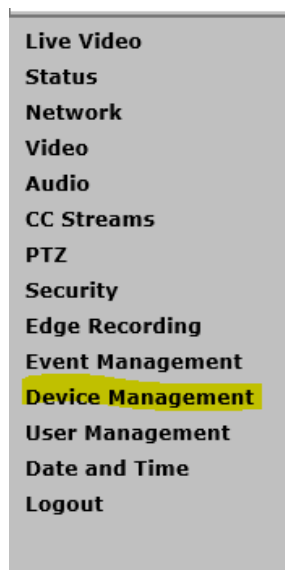
Server port: 1024

Advanced >>

Save Cancel

Click **SAVE**.

Click on “**Device Management**”.



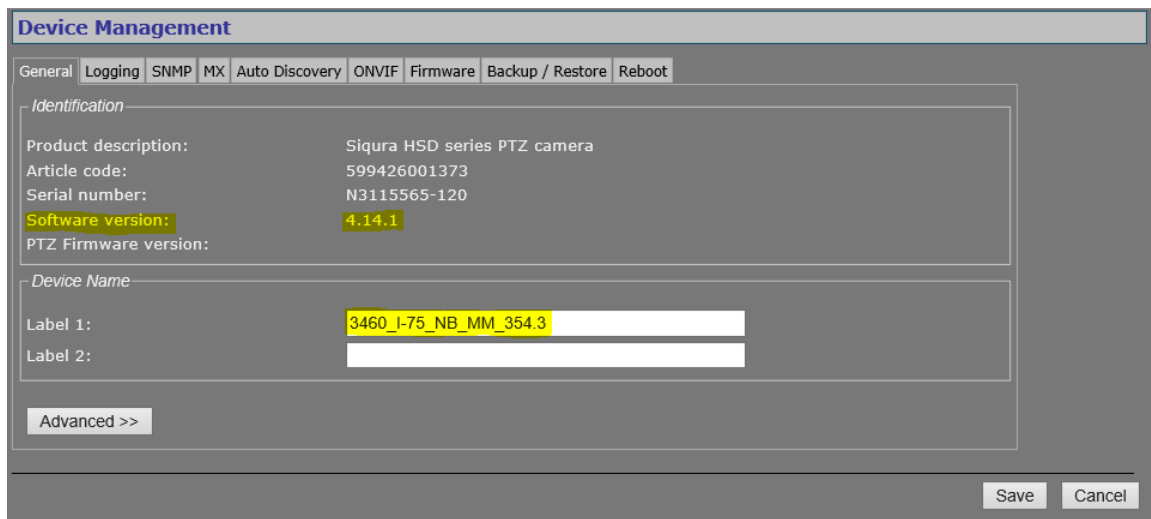
5. Device Management settings:

Set the following parameters for the “**General**” tab.

Check Software version: <4.14.1>

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Check Device Name / Label1: <3460_I-75_NB_MM_354.3>



The screenshot shows the 'Device Management' interface with the 'Identification' and 'Device Name' tabs selected. The 'Identification' tab displays the following information:

Product description:	Siqura HSD series PTZ camera
Article code:	599426001373
Serial number:	N3115565-120
Software version:	4.14.1
PTZ Firmware version:	

The 'Device Name' tab displays the following information:

Label 1:	3460_I-75_NB_MM_354.3
Label 2:	

At the bottom of the interface, there are 'Save' and 'Cancel' buttons.

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>

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The screenshot shows the 'Device Management' interface with the 'SNMP' tab selected. The configuration is organized into four sections:

- SNMP System Information:** Contains three text input fields for 'Contact:', 'Name:', and 'Location:'.
- SNMP Communities:** Contains three text input fields for 'Read:', 'Read/Write:', and 'Trap:', each with the value 'public' entered and highlighted in yellow.
- SNMP Agent:** Contains a 'Port:' field with the value '161' entered and highlighted in yellow.
- SNMP Traps:** Contains a 'Version:' section with radio buttons for 'v1' (unselected) and 'v2' (selected and highlighted in yellow). Below this are two rows for 'Destination IP : port:' and 'Alternative destination IP : port:', each with '0.0.0.0' in the IP field and '162' in the port field. At the bottom of this section is an unchecked checkbox for 'Enable authentication trap:'.

At the bottom right of the interface are 'Save' and 'Cancel' buttons.

Click SAVE.

Set the following parameters for the "MX" tab.

Enable MX: <Check box>

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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 'Label: 758_I-75_NB_@_MM_354.3'. 'Save' and 'Cancel' buttons are at the bottom right.

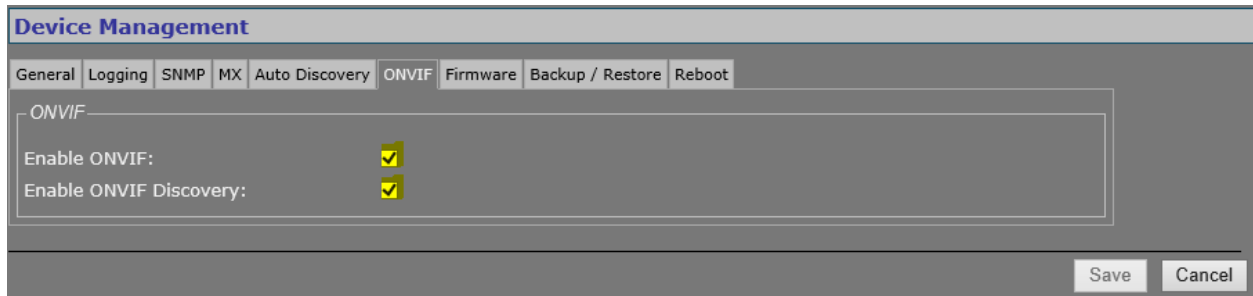
Click **SAVE**.

Set the following parameters for the “ONVIF” tab.

Enable ONVIF: <Check box >

Enable ONVIF Discovery: <Check box >

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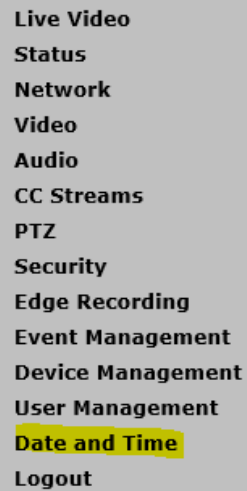
The screenshot shows the 'Device Management' configuration page in SunGuide. The 'ONVIF' tab is selected, and the following options are checked:

- Enable ONVIF:
- Enable ONVIF Discovery:

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

Click **SAVE**.

Click on **“Date and Time”**.



- 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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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>

The screenshot displays the 'Date and Time' configuration page in the SunGuide interface. On the left is a navigation menu with options: Live Video, Status, Network, Video, Audio, CC Streams, PTZ, Security, Edge Recording, Event Management, Device Management, User Management, **Date and Time** (highlighted), and Logout. The main content area is titled 'Date and Time' and is divided into two sections: 'Date and Time' and 'SNTP Settings'.
The 'Date and Time' section includes:
- Date: 2020 - 02 - 03 (yyyy-mm-dd)
- Local time: 08 : 23 : 59 (hh:mm:ss)
- Time zone: (GMT-5:00)
- Daylight saving time (DST): Off (standard time), On (daylight saving time), Automatic
- To daylight saving time: In March on the 3rd Sunday at 2:00
- To standard time: In November on the 2nd Sunday at 3:00
The 'SNTP Settings' section includes:
- Enable time service:
- IP address from DHCP:
- Time server IP address: 10.32.0.22
- Time service query interval: 1 min
At the bottom of the settings area is an 'Advanced >>' button. At the bottom right of the page are 'Save' and 'Cancel' buttons.

Click SAVE.

Log out of device.

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Live Video
Status
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