

SOP for CCTVs in SunGuide

CohuHD RISE

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 CohuHD (4221) IP camera.

Log into the camera, using Internet Explorer version 11 or Chrome version 55.0 to access the camera's user interface. Type in the default IP address.

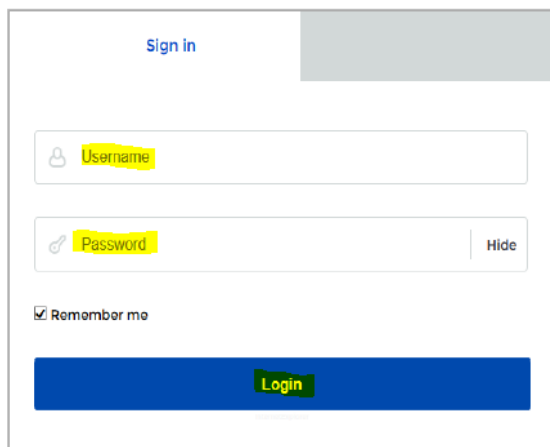
Note: Microsoft ActiveX is required to view and control video if Internet Explorer is used. In order to make changes in network settings and install ActiveX controls in the local machine the user must be logged in as an Administrator.



Enter the following:

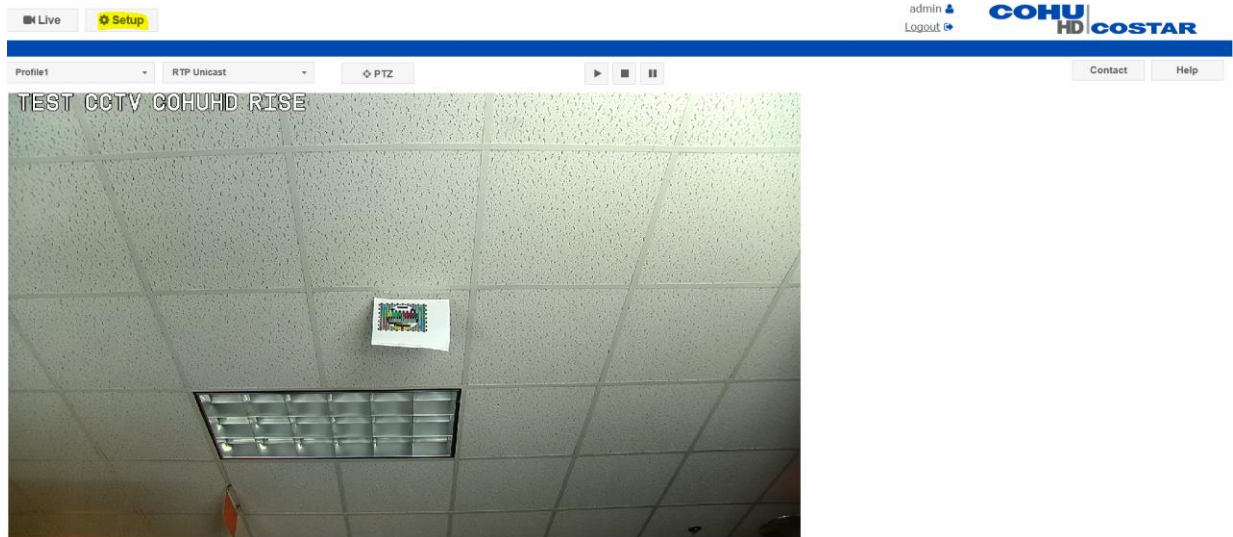
Enter the user name: <admin>

Enter the password: <admin>

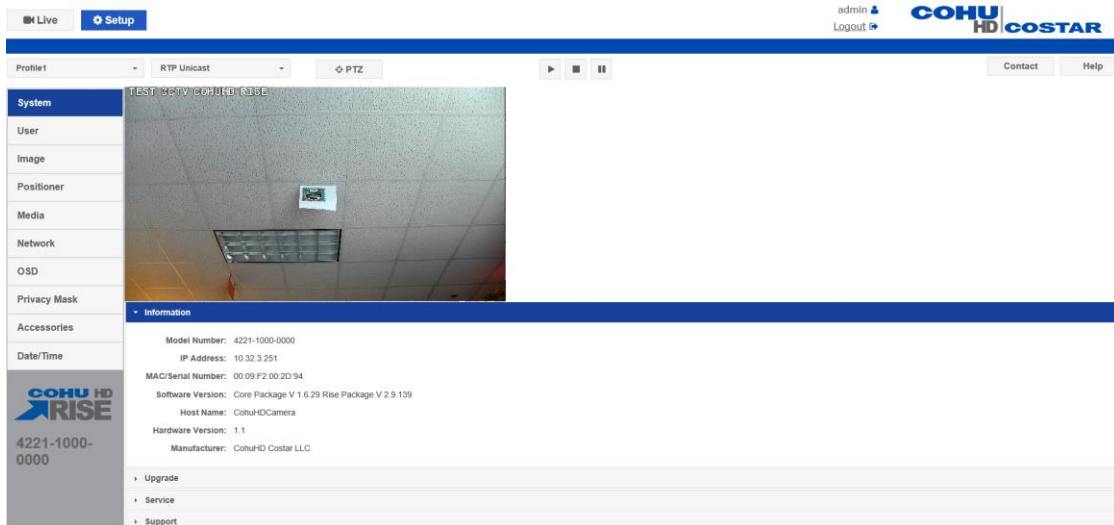
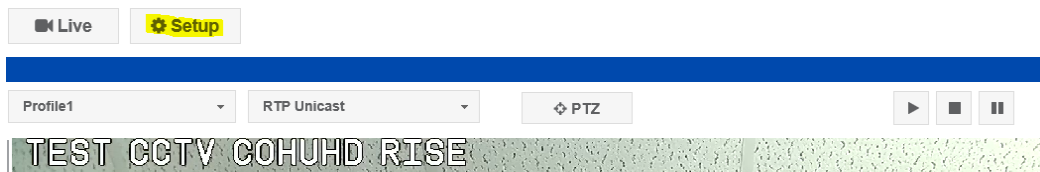
A screenshot of the CohuHD camera's login interface. The interface is titled "Sign in" and features a "Username" field with a user icon, a "Password" field with a key icon and a "Hide" button, and a "Remember me" checkbox. A blue "Login" button is positioned at the bottom of the form.

Click "Login".

SOP for CCTVs in SunGuide

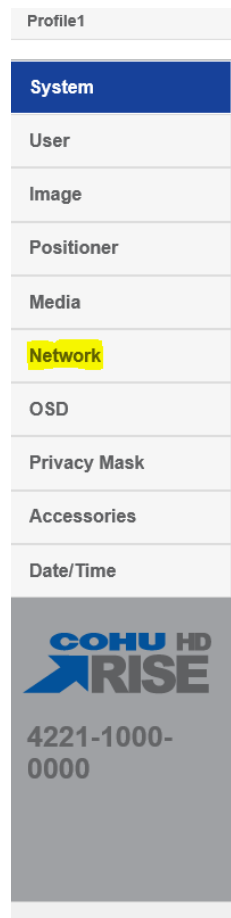


Click on "Setup".



SOP for CCTVs in SunGuide

Click on “Network”.



NOTE: Click Set/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”.

<i>IP Configuration</i>	< Static >
<i>IP address</i>	<10.X.X.X>
<i>Subnet mask</i>	<255.255.255.X>
<i>Gateway</i>	<10.X.X.X>

SOP for CCTVs in SunGuide

Profile1 RTP Unicast PTZ

System
User
Image
Positioner
Media
Network
OSD
Privacy Mask
Accessories
Date/Time



IPv4 Network Settings

Interface: eth0

IP Configuration	DNS Configuration	Current Auto Negotiation Setting
<input checked="" type="radio"/> Static <input type="radio"/> DHCP	<input checked="" type="radio"/> Static <input type="radio"/> DHCP	<input type="text" value="Enabled"/>
IP address: <input type="text" value="0.0.0.0"/>	Preferred DNS Server: <input type="text" value="172.16.10.110"/>	Current Duplex Setting: <input type="text" value="Full"/>
Subnet mask: <input type="text" value="255.255.255.0"/>	Alternate DNS Server: <input type="text" value=""/>	Current Network Speed: <input type="text" value="100 Mb/s"/>
Default gateway: <input type="text" value="0.0.0.0"/>	MTU: <input type="text" value="1500"/>	
Device Name: <input type="text" value="CohuHDCamera"/>		

▶ Network Ports Configuration
▶ Serial Port Configuration

Click "Save".

SOP for CCTVs in SunGuide

Click on "System".

Select "Service" and Reboot camera.

The screenshot displays the SunGuide web interface for a camera. At the top, there are controls for 'Profile1', 'RTP Unicast', and 'PTZ'. A navigation menu on the left includes 'System', 'User', 'Image', 'Positioner', 'Media', 'Network', 'OSD', 'Privacy Mask', 'Accessories', and 'Date/Time'. The 'System' menu item is highlighted. Below the navigation menu is the COHU HD RISE logo and the camera ID '4221-1000-0000'. The main content area shows a live video feed of a ceiling with a camera mounted on it. Below the video feed, there are sections for 'Information', 'Upgrade', 'Service', and 'Support'. The 'Service' section is expanded, showing several options: 'Reboot' (highlighted in yellow), 'Default', 'Home', 'Backup', and 'Restore'. Each option has a brief description of its function.

Profile1 RTP Unicast PTZ

System

User

Image

Positioner

Media

Network

OSD

Privacy Mask

Accessories

Date/Time

COHU HD RISE

4221-1000-0000

TEST COHU HD RISE

Information

Model Number: 4221-1000-0000

IP Address: 10.32.3.251

MAC/Serial Number: 00:09:F2:00:2D:94

Software Version: Core Package V 1.6.29 Rise Package V 2.9.139

Host Name: CohuHDCamera

Hardware Version: 1.1

Manufacturer: CohuHD Costar LLC

Upgrade

Service

Reboot Reinitialize Camera System

Default Returns Camera System to Factory Default Settings (Network Settings are not effected)

Home Re-Calibrates Pan/Tilt Home Position Reference

Backup Downloads Camera System Configuration File to PC from Camera

Restore Uploads Camera System Configuration File to Camera from PC

Support

SOP for CCTVs in SunGuide

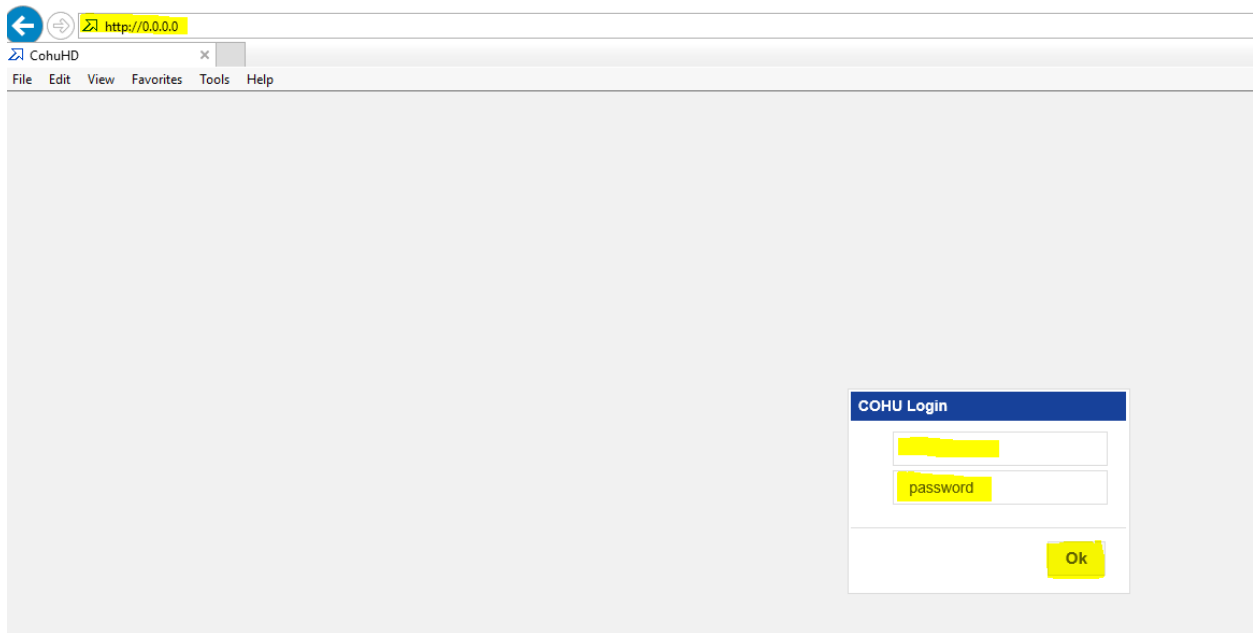
After Reboot, log into the camera, use Internet Explorer or Chrome to access the camera's user interface. Type in the assigned IP address.

Enter the following:

New IP address: < X.X.X.X. >

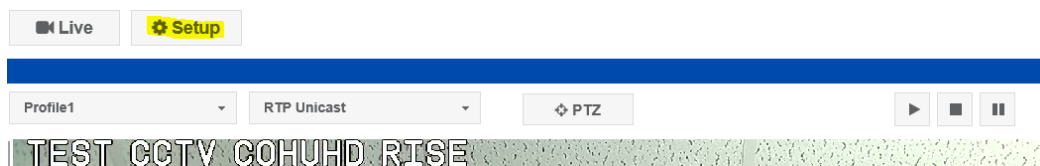
Enter the user name: < admin >

Enter the password: < admin >



Click "OK".

Click on "Setup".



SOP for CCTVs in SunGuide

Click on “System.”

Check Software Version. The software version highlighted below should match or be the latest version for SunGuide.

If software version listed does not match, Click “Upgrade”.

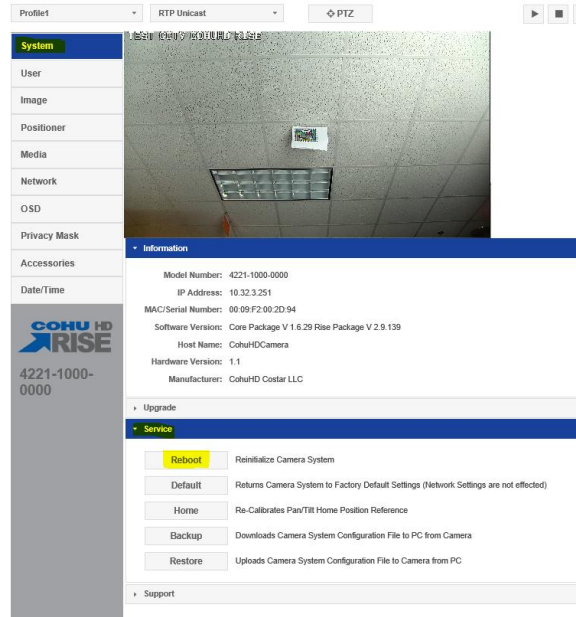
Browse to the file and upload the latest version for SunGuide.

The screenshot displays the SunGuide web interface. On the left is a navigation menu with the following items: System (highlighted), User, Image, Positioner, Media, Network, OSD, Privacy Mask, Accessories, and Date/Time. Below the menu is the COHU HD RISE logo and the camera ID 4221-1000-0000. The main content area shows a live camera feed of a ceiling with a light fixture and a small object. Below the feed is an 'Information' section with the following details: Model Number: 4221-1000-0000, IP Address: 10.32.3.251, MAC/Serial Number: 00:09:F2:00:2D:94, Software Version: Core Package V 1.6.29 Rise Package V 2.9.139 (highlighted), Host Name: CohuHDCamera, Hardware Version: 1.1, and Manufacturer: CohuHD Costar LLC. Below the information is an 'Upgrade' section containing a 'Browse' button (highlighted), an 'Upload' button, and a 'Cancel' button.

Click “Upload”.

SOP for CCTVs in SunGuide

If camera doesn't automatically reboot, Select "Service" and Reboot camera.



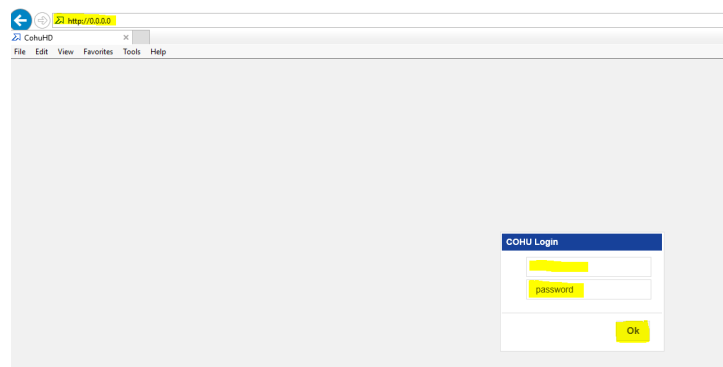
Log back into camera.

Enter the following:

New IP address: < X.X.X.X. >

Enter the user name: < admin >

Enter the password: < admin >



Click "OK".

SOP for CCTVs in SunGuide

Click on “Setup”.

Click on “Image”.

Set the following parameters for the “Lens Settings”.

Digital Zoom: < 6x >

Auto Focus: < Normal >

The screenshot displays the SunGuide web interface. At the top, there are buttons for 'Live' and 'Setup'. Below these are dropdown menus for 'Profile1' and 'RTP Unicast', and a 'PTZ' button. The left sidebar contains a navigation menu with the following items: System, User, Image (highlighted), Positioner, Media, Network, OSD, Privacy Mask, Accessories, and Date/Time. The main content area shows a live video feed of a ceiling with a camera mounted on it. Below the video feed, the 'Lens Settings' section is expanded, showing 'Digital Zoom Maximum' set to 6x and 'Auto Focus Sensitivity' set to Normal. There are also buttons for 'Defaults', 'Exposure Settings', and 'Advanced Settings'.

SOP for CCTVs in SunGuide

Click “Exposure Settings”.

Set the following parameters for the “Exposure Settings”.

Day/Night: < Auto >

WDR Mode: < Off >

BLC: < Off >

AGC Limit: < 30dB to 48 dB >

The screenshot displays the SunGuide web interface for a COHU HD camera. The interface is divided into several sections:

- Top Bar:** Includes "Live" and "Setup" buttons, user information "admin", a "Logout" link, the "COHU HD CO." logo, and a "Contact" button.
- Navigation Menu (Left):** Lists various settings categories: System, User, **Image** (highlighted), Positioner, Media, Network, OSD, Privacy Mask, Accessories, and Date/Time.
- Video Feed:** Shows a live camera view of an interior ceiling with a light fixture. The text "TEST CCTV COHU HD RISE" is overlaid on the top left of the video.
- Settings Panel (Bottom):**
 - Day/Night:** Set to "Auto".
 - Shutter:** Set to "Auto".
 - WDR Mode:** Set to "Off".
 - BLC:** Set to "Off".
 - AGC Limit:** Set to "48dB".
 - DSS Limit:** Set to "Off".
 - WDR Type:** Set to "Enhanced - 15 Tps".
 - BLC Level:** Set to "0%".
- Footer (Left):** COHU HD RISE logo and contact number "4221-1000-0000".

SOP for CCTVs in SunGuide

Click on “Setup”.

Click on “Positioner”.

Set the following parameters for the “General Settings”.

Auto Focus on PTZ: < On >

Proportional PTZ: < On >

Camera Flip Mode: < On >

The screenshot displays the SunGuide web interface for camera configuration. On the left is a navigation menu with the following items: Positioner (highlighted in blue), Media, Network, OSD, Privacy Mask, Accessories, and Date/Time. Below the menu is the COHU HD RISE logo and the phone number 4221-1000-0000. The main content area shows a live camera feed of an indoor ceiling with a blue circular overlay. Below the feed are expandable sections: Park Configuration, Presets, Tours, and General Settings (highlighted in blue). The General Settings section contains the following controls:

- Auto Focus on PTZ:** A toggle switch with 'Off' and 'On' buttons, where 'On' is selected. To the right is a 'North' button and the text 'Set current azimuth (pan) position to North'.
- Proportional PTZ:** A toggle switch with 'Off' and 'On' buttons, where 'On' is selected.
- Freeze Video - Presets:** A toggle switch with 'Off' and 'On' buttons, where 'Off' is selected.
- High Wind/Vibration Mode:** A toggle switch with 'Off' and 'On' buttons, where 'Off' is selected.
- Camera Flip Mode:** A toggle switch with 'Off' and 'On' buttons, where 'On' is selected.

At the bottom of the General Settings section are two buttons: 'Save' (highlighted in yellow) and 'Cancel'.

Click “Save”.

SOP for CCTVs in SunGuide

Click on “Media”.

Set the following parameters for the “Profile Setup and Stream Setup”.

Click on “Stream Setup”.

Profile Name: < Profile 1 >

System

User

Image

Positioner

Media

Network

OSD

Privacy Mask

Accessories

Date/Time

COHU HD RISE

4221-1000-0000

Profile Setup

+ Create Delete

Profile Name Profile Stream Multicast

Profile1 Stream0 Disabled

Stream Name ^	Codec	Resolution	Multicast	Frame Rate (F/s)	Bit Rate (kb/s)
Stream0	H264 High	1920x1080	Disabled	30	3000
Stream1	H264 Baseline	1280x720	Disabled	30	1100

Stream Setup

Advanced Media Setup

SOP for CCTVs in SunGuide

Set the following parameters for “Stream0”.

Stream: < Stream0 >
Codec: < H264 High >
Bit Rate Control: < CBR >
Multicast Address: < XXX.XXX.XXX.XXX >
Resolution: < 1920x1080 >
Multicast Port: < 5554 >
Frame Rate: < 30fps >
Bit Rate: < 3000kbps >
Multicast TTL: < 64 >

Stream Name ^	Codec	Resolution	Multicast	Frame Rate (F/s)	Bit Rate (kb/s)
Stream0	H264 High	1920x1080	232.219.0.0	30	3000
Stream1	H264 Baseline	1280x720	Disabled	30	1100

Stream Setup

Stream: Stream0 + Create Delete

Codec: H264 High

Resolution: 1920x1080

Frame Rate: 30fps

H.264 Utilization: 72%

MJPEG Utilization: 0%

RTSP Timeout: 60

Bit Rate Control: CBR

Min 0 - Max 0

Bit Rate: 3000kbps

GOV Length: 30

Quality: 1%

Multicast Address: 232.219.0.0

Multicast Port: 5554

Multicast TTL: 64

Video Constrained Mode: Off On

Save Cancel

Click “Save”.

SOP for CCTVs in SunGuide

Set the following parameters for “Stream1”.

Stream: < Stream1 >
Codec: < H264 Baseline >
Bit Rate Control: < VBR >
Multicast Address: < XXX.XXX.XXX.XXX >
Resolution: < 1280x720 >
Multicast Port: < 5556 >
Frame Rate: < 30fps >
Bit Rate: < 1100kbps >

Stream Name ^	Codec	Resolution	Multicast	Frame Rate (F/s)	Bit Rate (kb/s)
Stream0	H264 High	1920x1080	Disabled	30	3000
Stream1	H264 Baseline	1280x720	Disabled	30	1100

Stream Setup

Stream: Stream1 + Create Delete

Codec: H264 Baseline

Bit Rate Control: VBR

Multicast Address: 0.0.0.0

Resolution: 1280x720

Min 0 - Max 0

Multicast Port: 5556

Frame Rate: 30fps

Bit Rate: 1100kbps

Multicast TTL: 64

H.264 Utilization: 72%

GOV Length: 1

MJPEG Utilization: 0%

Quality: 1%

Video Constrained Mode: Off On

RTSP Timeout: 60

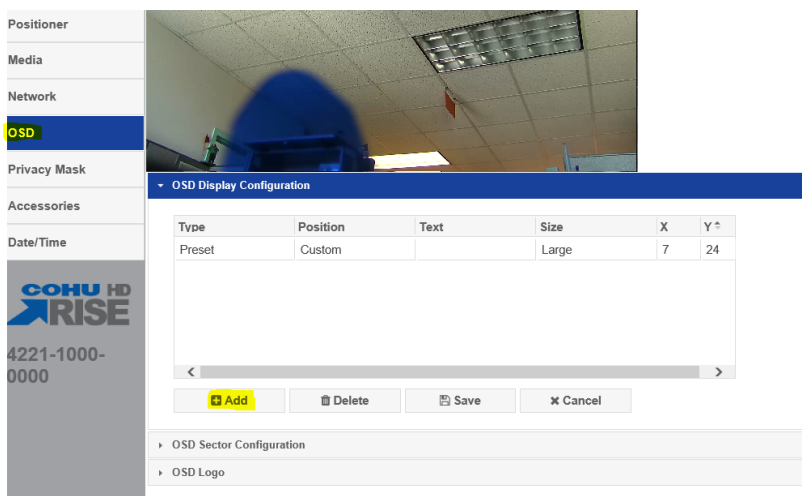
Save Cancel

Click “Save”.

SOP for CCTVs in SunGuide

Click on “OSD”.

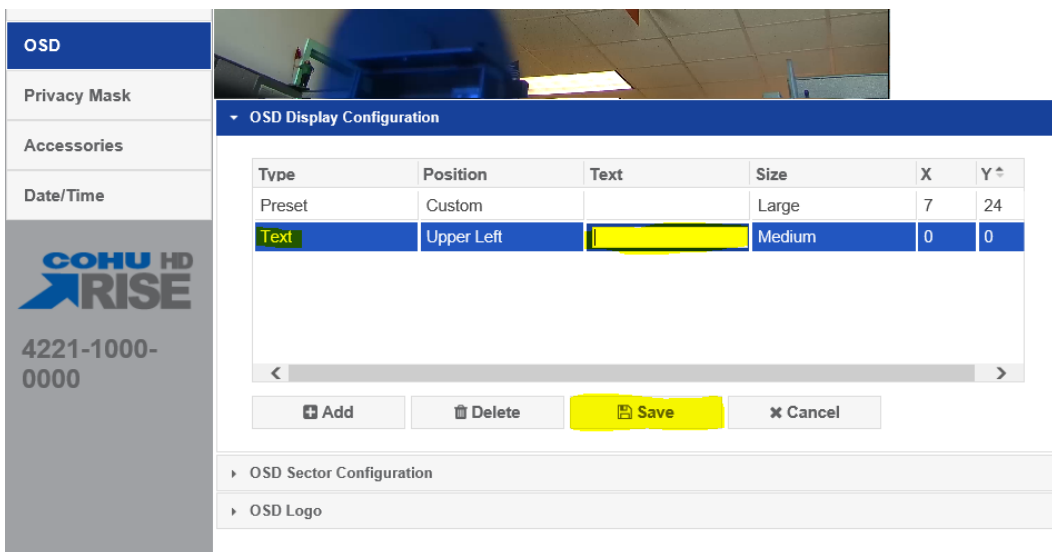
Click “ + Add ”.



Click in the Text field, type the Camera Name or Location.

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

Camera name: <Example: SR 50 at JYP>



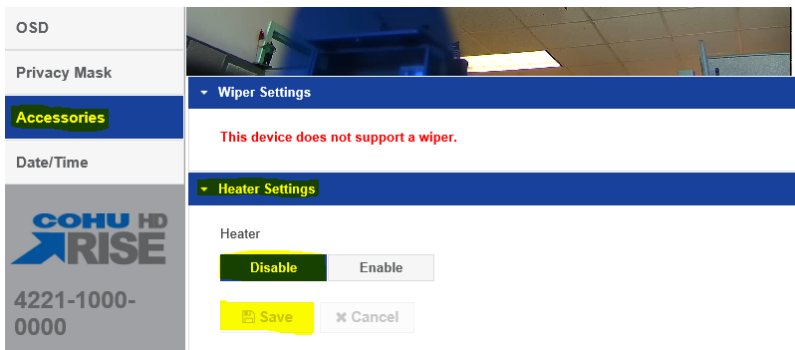
Click “Save”.

SOP for CCTVs in SunGuide

Click on “Accessories”.

Click on “Heater Settings” and select < Disable >.

Click “Save”.



Click on “Date/Time”.

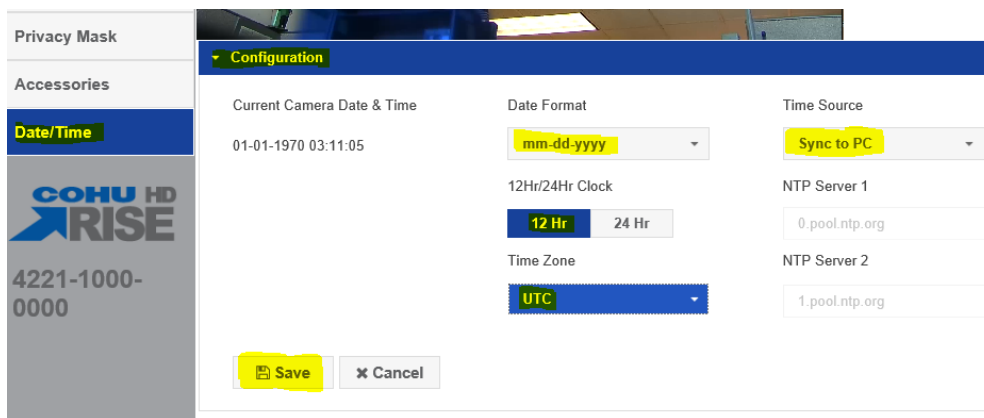
Set the following parameters for the “Date/Time”.

Date format: < MM/DD/YYYY >

Time Source: < Select Sync to PC >

12Hr/24Hr Clock: < Select 12 Hr >

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



Click “Save”.

Log out of camera.