

# SOP for CCTVs in SunGuide

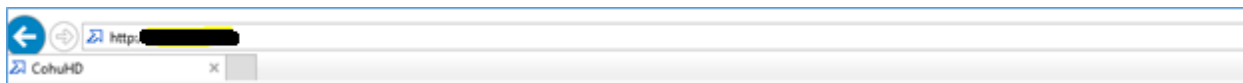
## CohuHD RISE

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.**

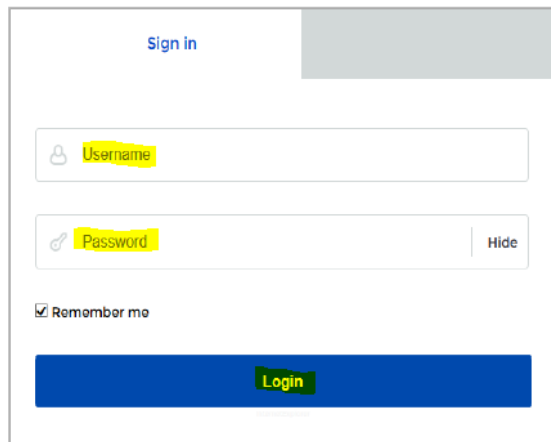
**Note: Microsoft ActiveX is required to view and control video if Internet Explorer is used. In order to make changes in network settings and install ActiveX controls in the local machine the user must be logged in as an Administrator.**



**Enter the following:**

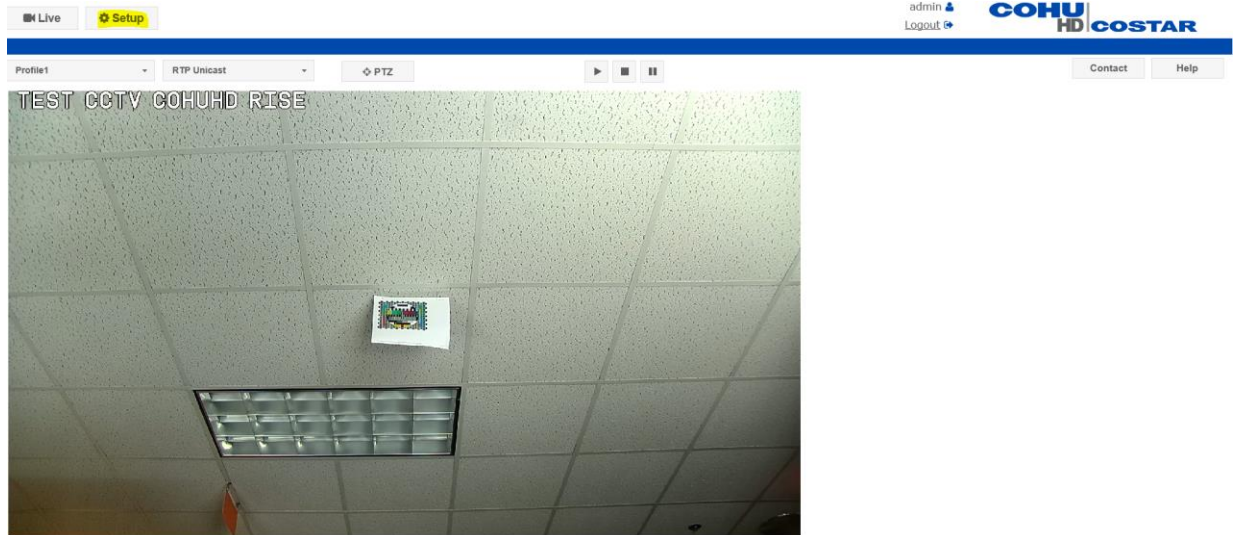
*Enter the user name:* <call ITS staff>

*Enter the password:* <call ITS staff>

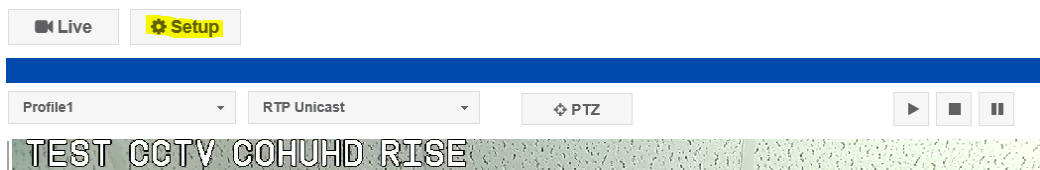
A screenshot of a login interface. At the top left, it says "Sign in". Below this are two input fields: "Username" and "Password". The "Password" field has a "Hide" button to its right. Below the input fields is a checkbox labeled "Remember me" which is checked. At the bottom of the form is a large blue button labeled "Login".

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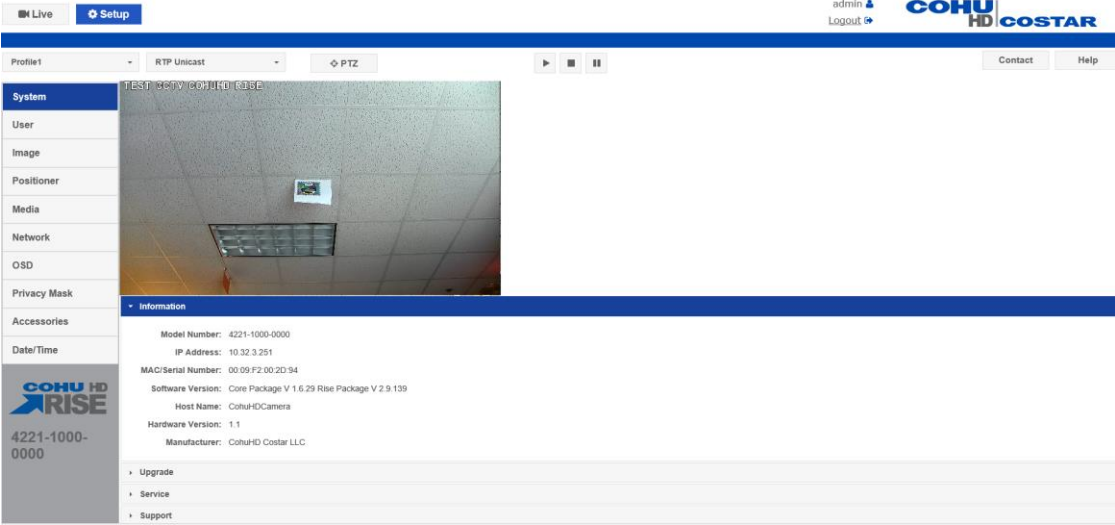
Click "Login".



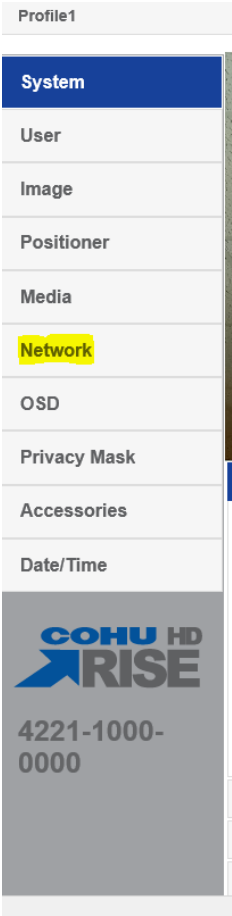
Click on "Setup".



# SOP for CCTVs in SunGuide



Click on "Network".



# SOP for CCTVs in SunGuide

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".

IP Configuration < Static >

IP address <10.X.X.X>

Subnet mask <255.255.255.X>

Gateway <10.X.X.X>

Profile1 RTP Unicast PTZ

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

COHU HD RISE  
4221-1000-0000

IPv4 Network Settings

Interface: eth0

IP Configuration: **Static** DHCP

IP address: 0.0.0.0

Subnet mask: 255.255.255.0

Default gateway: 0.0.0.0

Device Name: CoHuHDCamera

**Save** Cancel

DNS Configuration: **Static** DHCP

Preferred DNS Server: 172.16.10.110

Alternate DNS Server:

Current Auto Negotiation Setting: Enabled

Current Duplex Setting: Full

Current Network Speed: 100 Mb/s

MTU: 1500

Network Ports Configuration

Serial Port Configuration

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**Click "Save".**

**Click on "System".**

**Select "Service" and Reboot camera.**

# SOP for CCTVs in SunGuide

The screenshot displays the SunGuide web interface for a camera. At the top, there are controls for 'Profile1', 'RTP Unicast', and a 'PTZ' button. A navigation sidebar on the left includes options like 'System', 'User', 'Image', 'Positioner', 'Media', 'Network', 'OSD', 'Privacy Mask', 'Accessories', and 'Date/Time'. The main content area shows a live camera feed of a ceiling with a light fixture and a small object. Below the feed, the 'Information' section lists camera details: Model Number: 4221-1000-0000, IP Address: [redacted], 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, and Manufacturer: CohuHD Costar LLC. The 'Service' section is expanded, showing buttons for 'Reboot', 'Default', 'Home', 'Backup', and 'Restore'. The 'Reboot' button is highlighted in yellow. Below this is a 'Support' section.

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

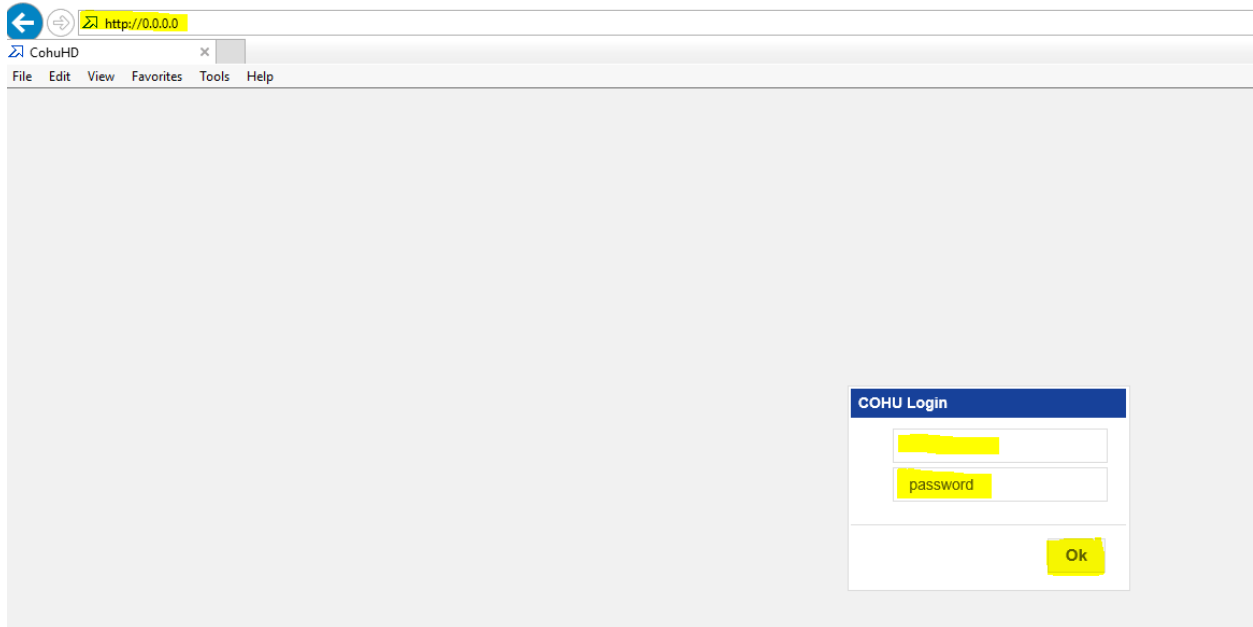
Enter the following:

# SOP for CCTVs in SunGuide

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

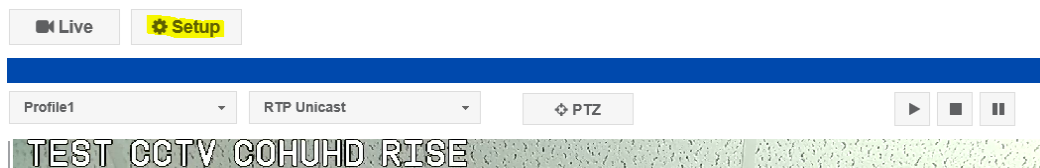
*Enter the user name:* < call ITS staff (if needed )>

*Enter the password:* < call ITS staff (if needed) >



Click "OK".

Click on "Setup".



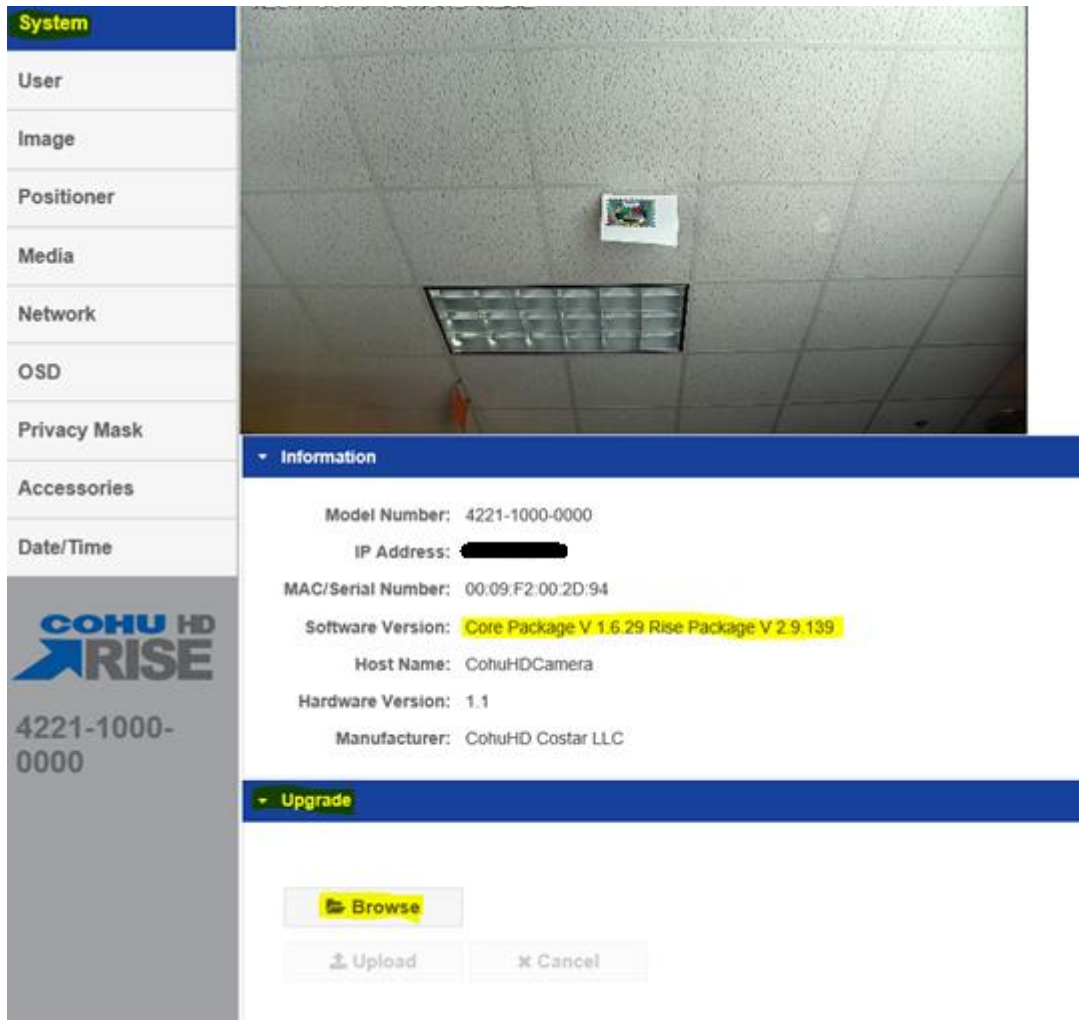
Click on "System."

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

# SOP for CCTVs in 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 for a CCTV camera. On the left is a navigation menu with options: 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 model number 4221-1000-0000. The main content area shows a live camera feed of a ceiling with a light fixture. Below the feed is an 'Information' section with the following details: Model Number: 4221-1000-0000, IP Address: [REDACTED], 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”.

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



# SOP for CCTVs in SunGuide

Profile1 RTP Unicast PTZ

**System**

User

Image

Positioner

Media

Network

OSD

Privacy Mask

Accessories

Date/Time

**COHU HD RISE**

4221-1000-0000

**Information**

Model Number: 4221-1000-0000

IP Address: [REDACTED]

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

**Log back into camera.**

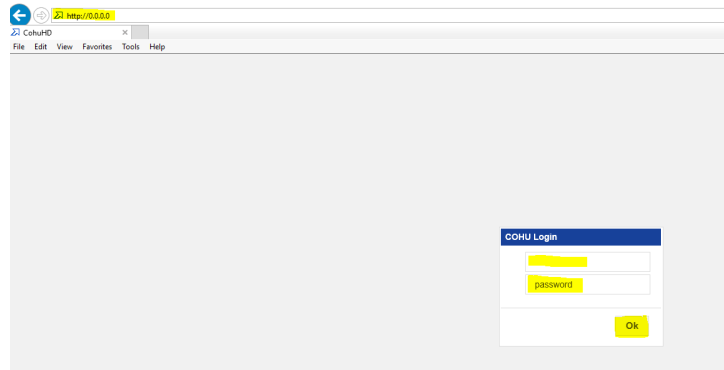
**Enter the following:**

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

*Enter the user name:* < call ITS staff (if needed) >

*Enter the password:* < call ITS staff (if needed) >

# SOP for CCTVs in SunGuide



Click "OK".

Click on "Setup".

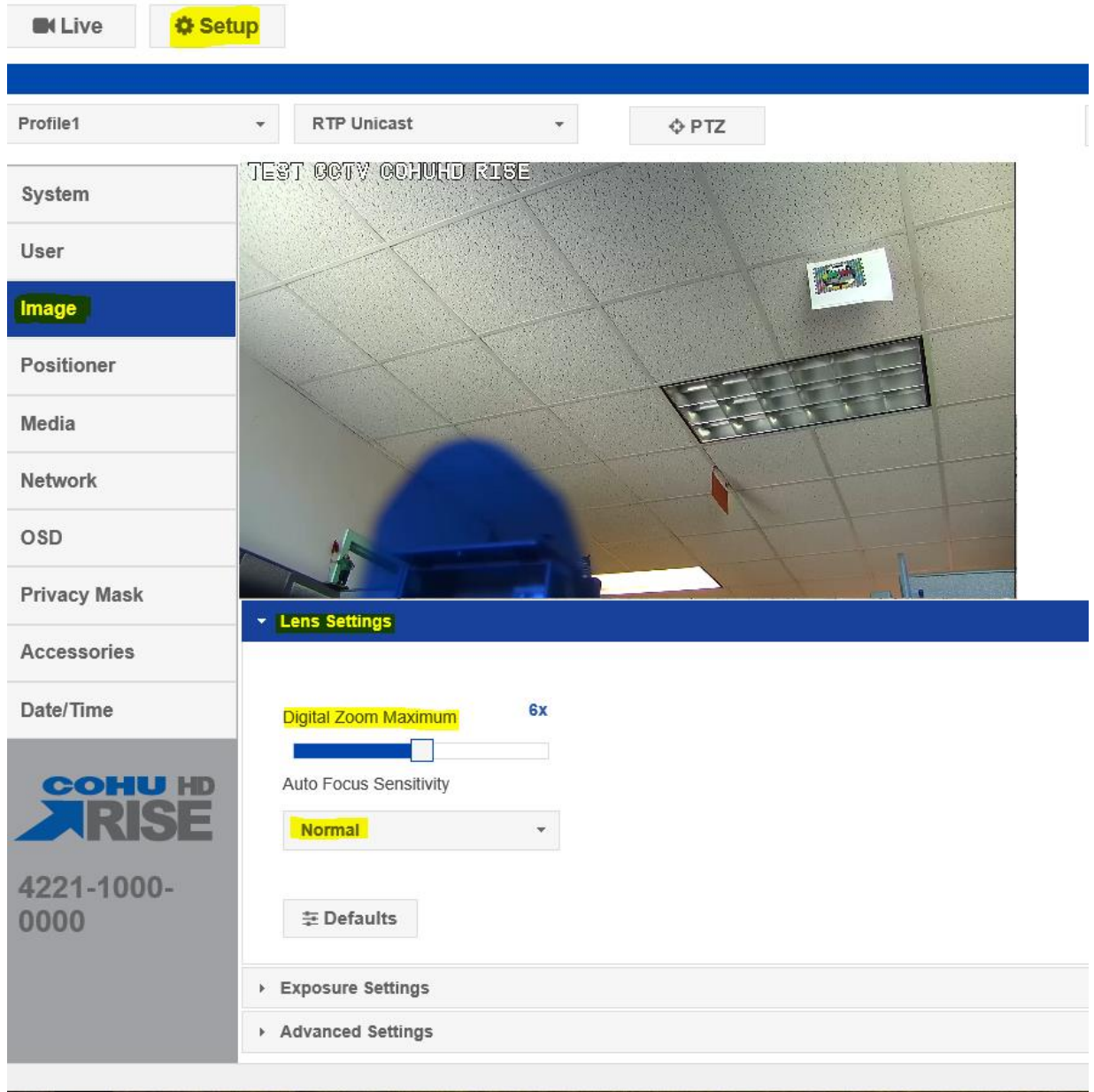
Click on "Image".

Set the following parameters for the "Lens Settings".

*Digital Zoom:* < 6x >

*Auto Focus:* < Normal >

# SOP for CCTVs in SunGuide



Click “Exposure Settings”.

Set the following parameters for the “Exposure Settings”.

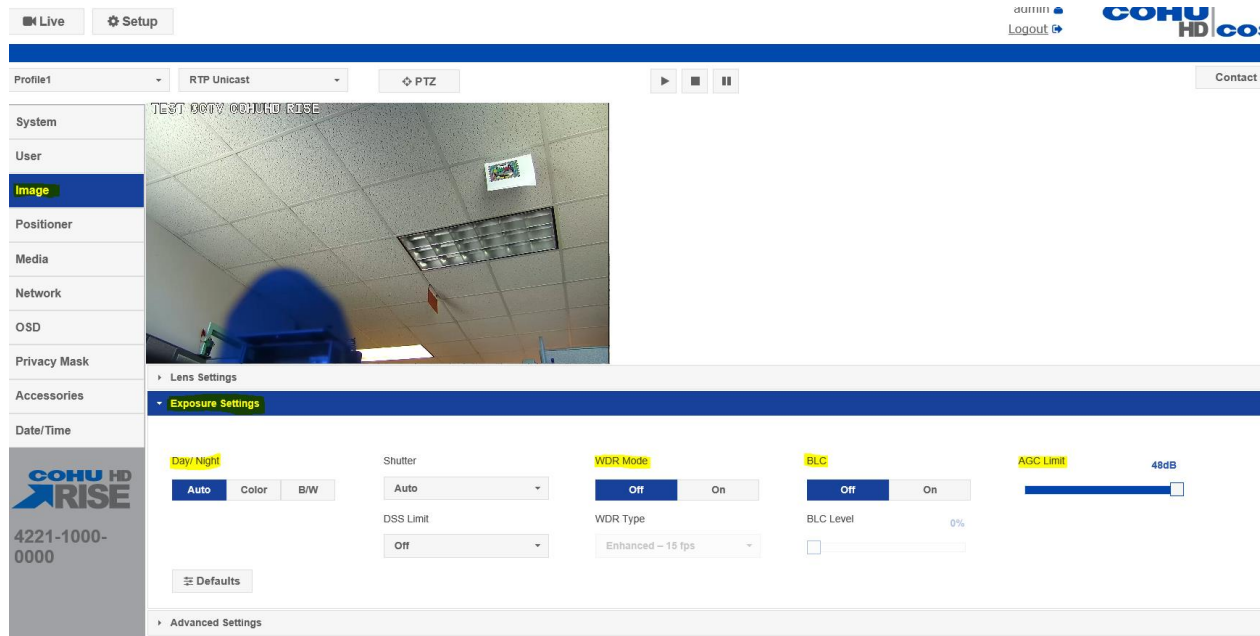
*Day/Night:* < Auto >

*WDR Mode:* < Off >

# SOP for CCTVs in SunGuide

*BLC:* < Off >

*AGC Limit:* < 30dB to 48 dB >



Click on “Setup”.

Click on “Positioner”.

Set the following parameters for the “General Settings”.

*Auto Focus on PTZ:* < On >

*Proportional PTZ:* < On >

# SOP for CCTVs in SunGuide

Camera Flip Mode:

< On >

The screenshot displays the SunGuide camera configuration interface. On the left, a sidebar menu includes 'Positioner' (highlighted), '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 camera view of a ceiling with a blue circular overlay. Below the view is a settings menu with 'General Settings' expanded. Under 'General Settings', the following settings are visible: 'Auto Focus on PTZ' (On), 'Proportional PTZ' (On), 'Freeze Video - Presets' (Off), 'High Wind/Vibration Mode' (Off), and 'Camera Flip Mode' (On). 'Save' and 'Cancel' buttons are at the bottom.

Click "Save".

Click on "Media".

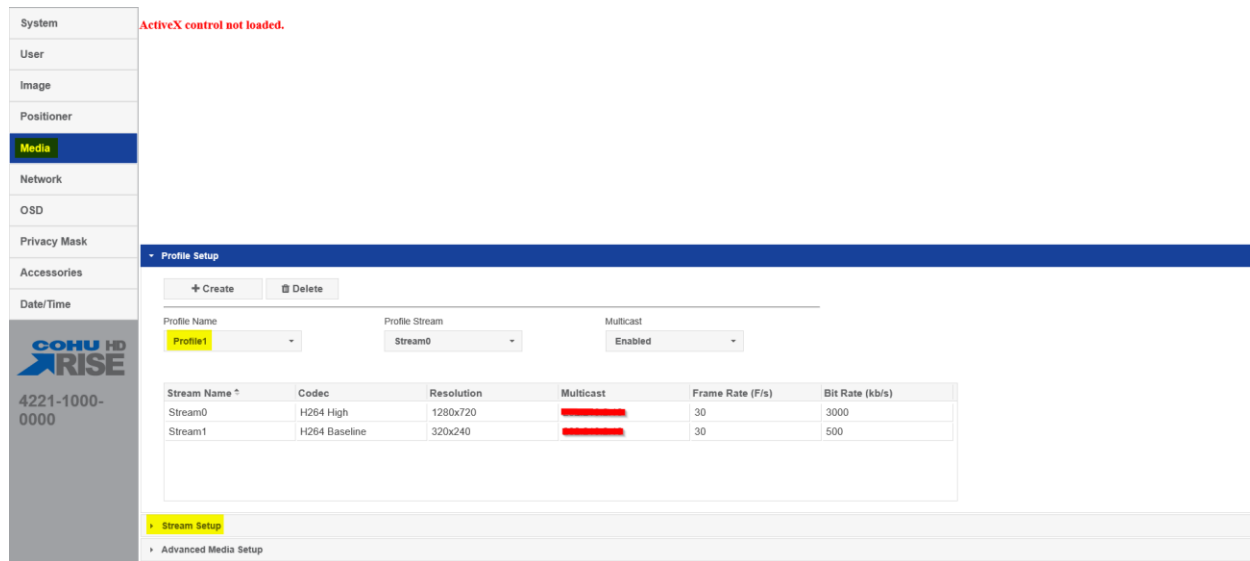
Set the following parameters for the "Profile Setup and Stream Setup".

Click on "Stream Setup".

Profile Name:

< Profile 1 >

# 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 >
- Multicast:* <Enabled>

# SOP for CCTVs in SunGuide

Profile Name: Profiler1 | Profile Stream: Stream0 | Multicast: Enabled

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

**Stream Setup**

Stream: Stream0 | + Create | Delete

Codec: H264 High | Bit Rate Control: CBR | Multicast Address: [Redacted]

Resolution: 1920x1080 | Min 0 - Max 0 | Multicast Port: 5554

Frame Rate: 30fps | Bit Rate: 3000kbps | Multicast TTL: 64

H.264 Utilization: 72% | GOV Length: 30 | Video Constrained Mode: Off

MPEG Utilization: 0% | Quality: 1% | RTSP Timeout: 60

Save | Cancel

Click "Save".

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 >
- Multicast: <Enabled>

# SOP for CCTVs in SunGuide

Stream Name *	Codec	Resolution	Multicast	Frame Rate (F/s)	Bit Rate (kb/s)
Stream0	H264 High	1920x1080	<input checked="" type="checkbox"/>	30	3000
Stream1	H264 Baseline	1280x720	<input checked="" type="checkbox"/>	30	1100

**Stream Setup**

Stream: Stream1

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**Codec:** H264 Baseline

**Resolution:** 1280x720

**Frame Rate:** 30fps

**H.264 Utilization:** 72%

**MJPEG Utilization:** 0%

**RTSP Timeout:** 60

**Bit Rate Control:** VBR

**Min 0 - Max 0:**

**Bit Rate:** 1100kbps

**GOV Length:** 1

**Quality:** 1%

**Multicast Address:** 0.0.0.0

**Multicast Port:** 5556

**Multicast TTL:** 64

**Video Constrained Mode:**

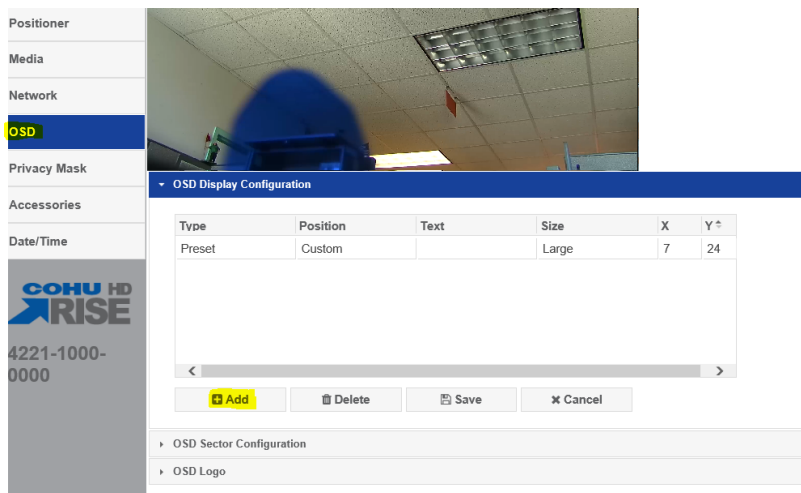
Click "Save".

Click on "OSD".

Click "+ Add".



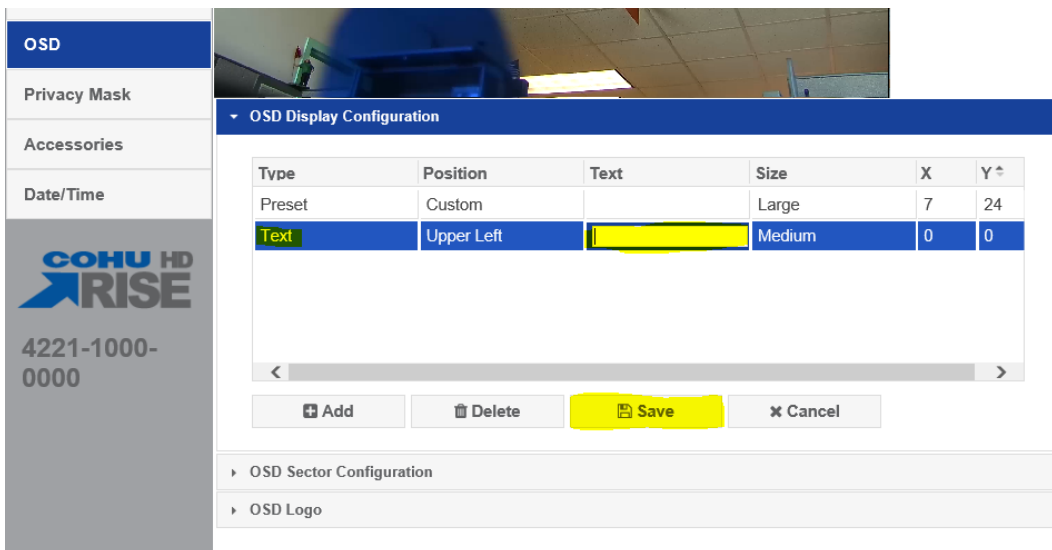
# SOP for CCTVs in SunGuide



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>



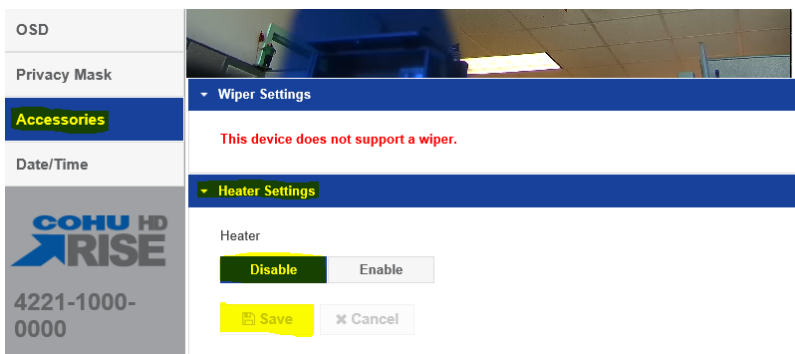
Click "Save".

Click on "Accessories".

Click on "Heater Settings" and select < Disable >.

# SOP for CCTVs in SunGuide

Click "Save".



Click on "Date/Time".

Set the following parameters for the "Date/Time".

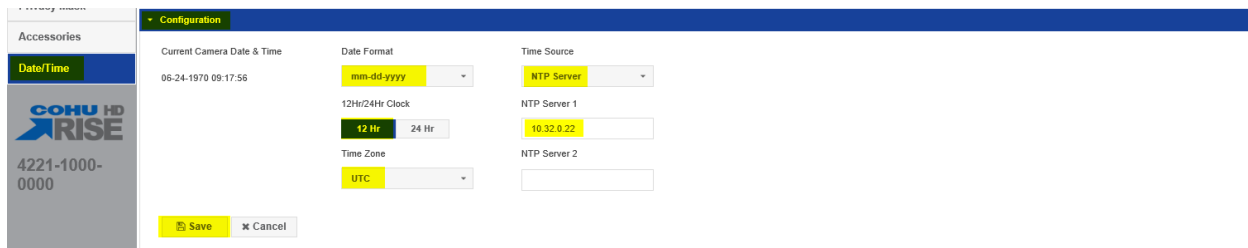
*Date format:* < MM/DD/YYYY >

*Time Source:* < NTP Server >

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

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

*NTP Server 1:* <10.32.0.22>



Click "Save".

Log out of camera.