

SOP for CCTVs in SunGuide

TKH SIQURA HSD826

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 HSD826 IP camera.

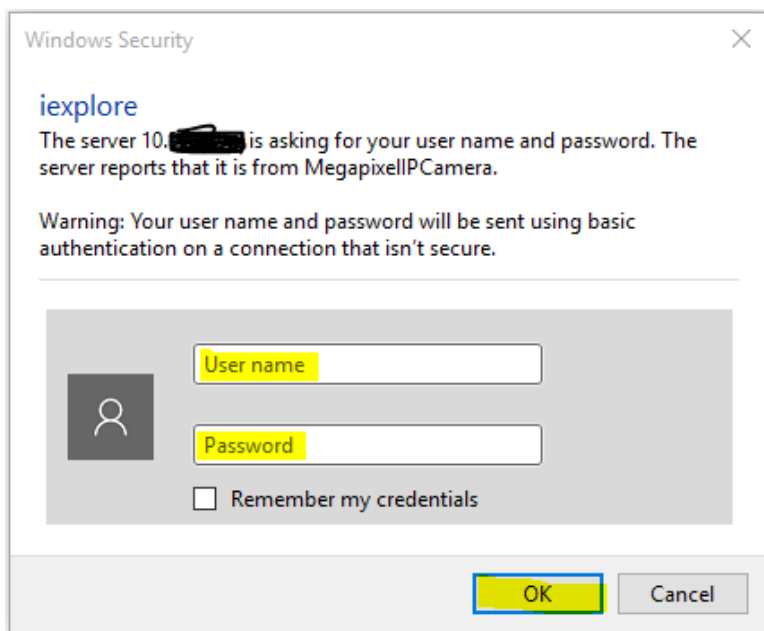
Log into the camera, using Internet Explorer or Chrome to access the camera's user interface. Type in the default IP address.



Enter the following:

Default user name: < Call ITS >

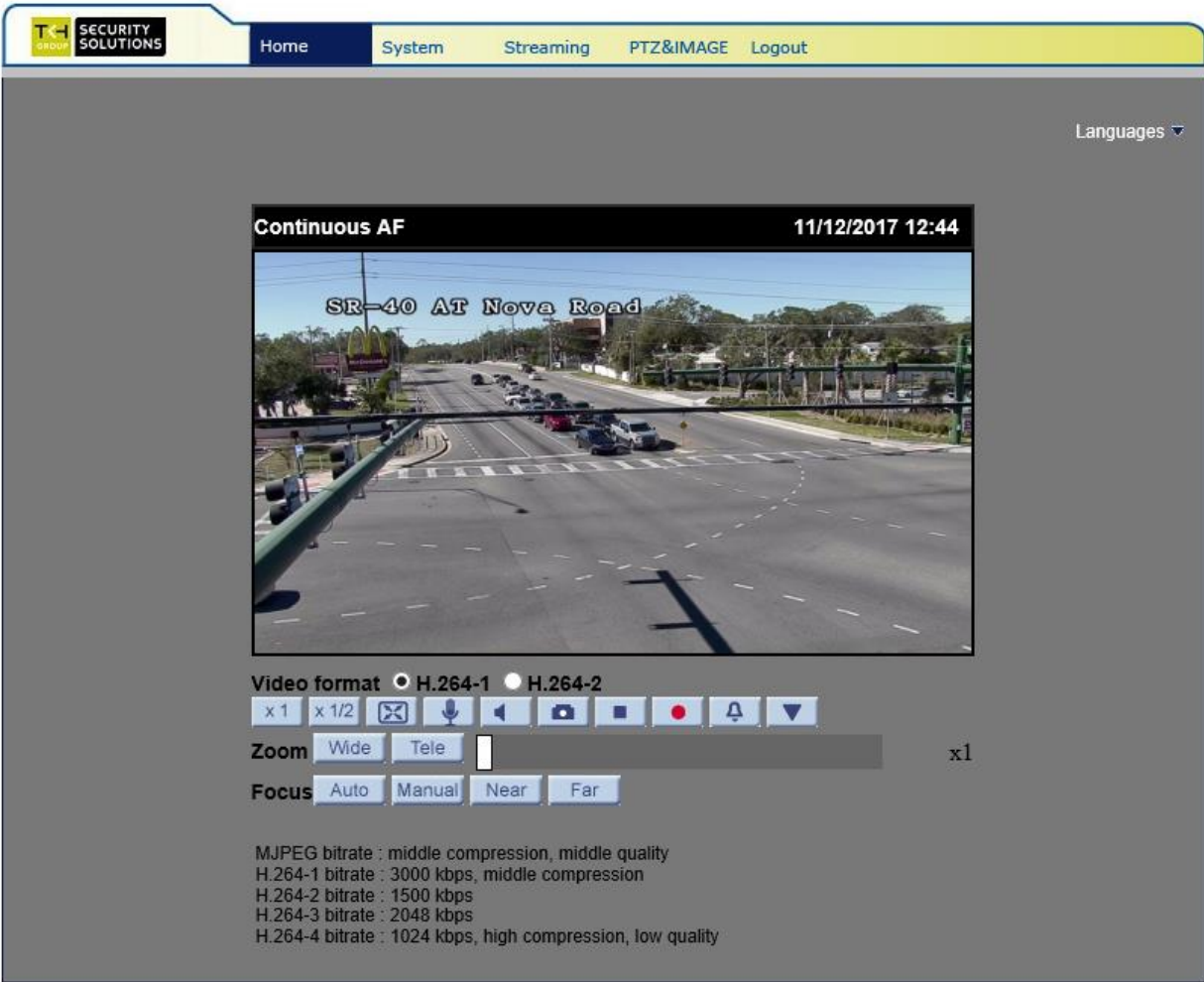
Default password: < Call ITS >



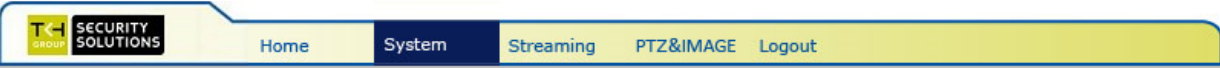
Click "OK".

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



Click on "System".



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Set the following parameters for the "System".

Host Name: <Type in the Roadway> (Example: SR-50_AT_JYP)

Time Zone: < Select GMT-5:00 (USA&Canada) >

Time format: < Select Sync with NTP Server >

PC date: < yyyy/mm/dd >

The screenshot shows the SunGuide web interface for system configuration. The 'System' tab is active. The configuration fields are as follows:

- Host Name: I-4_WB_MM_103.7
- Time zone: GMT-05:00 Indiana East, Colombia, Panama, Eastern Time (USA& Canada)
- Enable daylight saving time
 - time offset: 01:00:00
 - Start date: Jan 1st Sun Start time: 00:00:00
 - End date: Jan 1st Sun End time: 00:00:00
- Time format: yyyy/mm/dd
 - Sync with computer time
 - PC date: 2020/02/03 [yyyy/mm/dd]
 - PC time: 08:19:16 [hh:mm:ss]
 - Manual
 - Date: 2010/04/01 [yyyy/mm/dd]
 - Time: 00:00:00 [hh:mm:ss]
 - Sync with NTP server
 - NTP server: 10.32.0.22 [host name or IP address]
 - Update interval: Every day

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

Click SAVE.

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1. Network settings:

Click on “Network” and then click “Basic”.

Set the following parameters for the “Basic”.

IP address: < 10.X.X.X >

Subnet mask: < 255.255.255.X >

Gateway: < 10.X.X.X >

The screenshot shows the SunGuide web interface for network configuration. The left sidebar contains a menu with categories like System, Security, Network, Mail, FTP, HTTP, Events, Storage Management, Recording, Schedule, File Location, View Information, Factory Default, Software Version, Software Upgrade, and Maintenance. The 'Network' category is expanded, and the 'Basic' sub-tab is selected. The main content area is titled 'Network' and contains the following sections:

- General**
 - Get IP address automatically
 - Use fixed IP address
 - IP address: 10.0.0.0
 - Subnet mask: 255.255.255.0
 - Default gateway: 10.0.0.0
 - Primary DNS: 0.0.0.0
 - Secondary DNS: 0.0.0.0
 - Use PPPoE
 - User name: [text box]
 - Password: [text box]
 - Save button
- Advanced**
 - Web Server port: 80
 - RTSP port: 554
 - MJPEG over HTTP port: 8008
 - HTTPS port: 443
 - Save button
- IPv6 Address Configuration**
 - Enable IPv6
 - Address: [text box]
 - Save button
 - MAC address: 00:06:73:01:25:E5

Click SAVE.

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Click on “Network” and then click “SNMP”.

Set the following parameters for the “SNMP”.

Enable SNMP v1: < check box >

Enable SNMP v2: < check box >

Read Community: < public >

Write Community: < private >

The screenshot shows the SunGuide web interface for configuring SNMP settings. The left sidebar contains a navigation menu with categories like System, Security, Network, and Events. The 'Network' category is expanded, and the 'SNMP' option is selected. The main content area is titled 'SNMP Settings' and contains the following configuration options:

- SNMP v1/v2:**
 - Enable SNMP v1
 - Enable SNMP v2
 - Read Community: public
 - Write Community: private
- SNMP v3:**
 - Enable SNMP v3
 - Security Name: [text input]
 - Authentication Type: MD5
 - Authentication Password: [text input]
 - Encryption Type: DES
 - Encryption Password: [text input]
- Traps for SNMP v1/v2/v3:**
 - Enable traps
 - Trap address: [text input]
 - Trap community: [text input]
 - Trap Option:**
 - Warm start

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

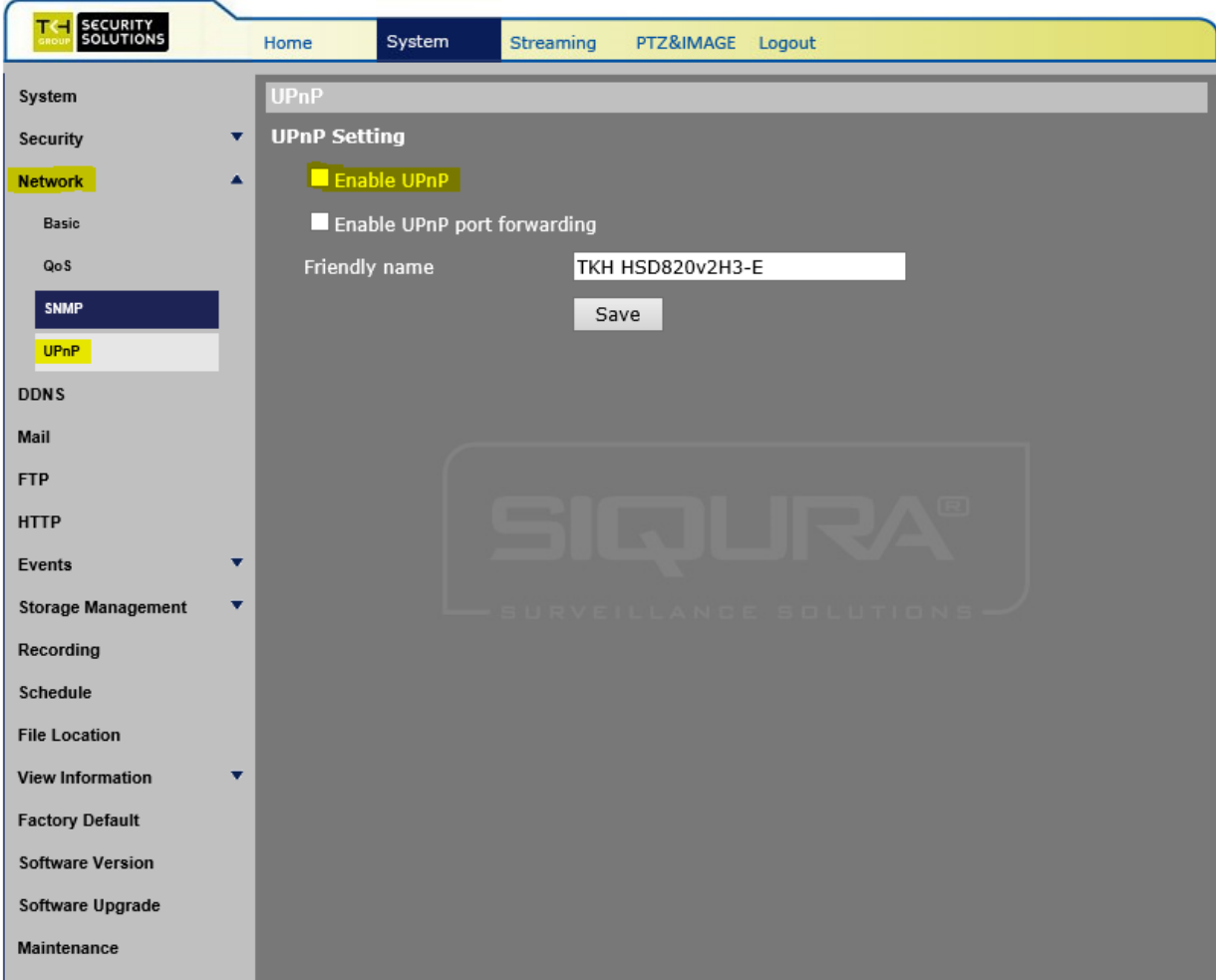
Click SAVE.

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Click on “Network” and then click “UPnP”.

Set the following parameters for the “UPnP”.

UPnP Setting: < Ensure that the box is unchecked >



The screenshot displays the SunGuide web interface. At the top, there is a navigation bar with the logo 'TKH SECURITY SOLUTIONS' and menu items: Home, System, Streaming, PTZ&IMAGE, and Logout. A left sidebar contains a tree view of system settings, with 'Network' expanded to show 'UPnP' selected. The main content area is titled 'UPnP' and contains the following settings:

- Enable UPnP
- Enable UPnP port forwarding
- Friendly name: TKH HSD820v2H3-E
- Save button

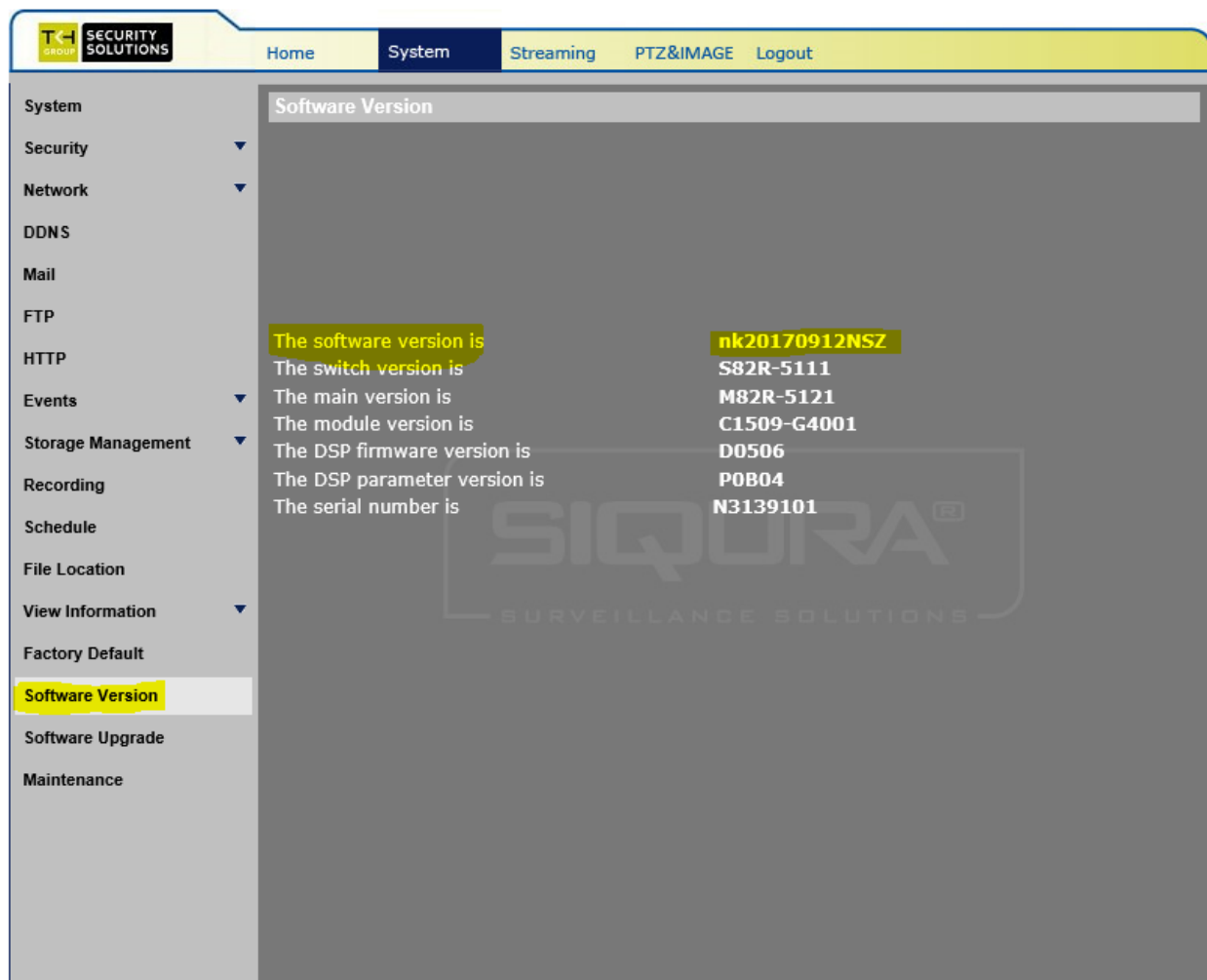
A large watermark for 'SIQURA SURVEILLANCE SOLUTIONS' is visible in the background of the settings area.

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2. Software settings:

Click on “Software”.

Ensure that the CCTV has the current version of software. The image shown gives the current version that work with SunGuide.



The screenshot displays the SunGuide web interface. The top navigation bar includes the logo for T-H group SECURITY SOLUTIONS and menu items: Home, System (selected), Streaming, PTZ&IMAGE, and Logout. A left sidebar contains a list of system settings: System, Security, Network, DDNS, Mail, FTP, HTTP, Events, Storage Management, Recording, Schedule, File Location, View Information, Factory Default, Software Version (highlighted), Software Upgrade, and Maintenance. The main content area is titled "Software Version" and lists the following information:

The software version is	nk20170912NSZ
The switch version is	S82R-5111
The main version is	M82R-5121
The module version is	C1509-G4001
The DSP firmware version is	D0506
The DSP parameter version is	P0B04
The serial number is	N3139101

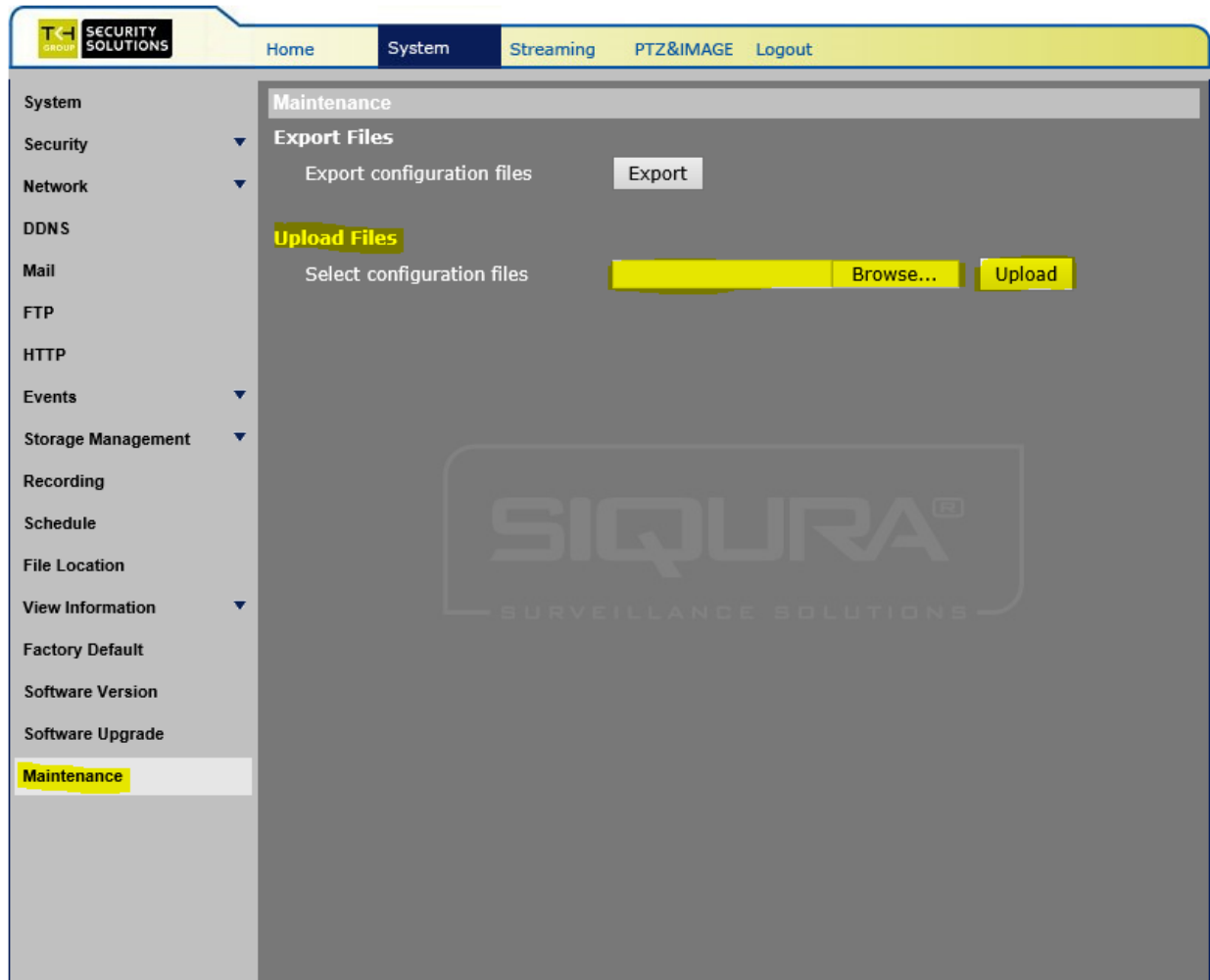
A large watermark for "SIQURA SURVEILLANCE SOLUTIONS" is visible in the background of the main content area.

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To Upload Files for configuration of the camera Click on “Maintenance”.

Browse to and select the configuration file.

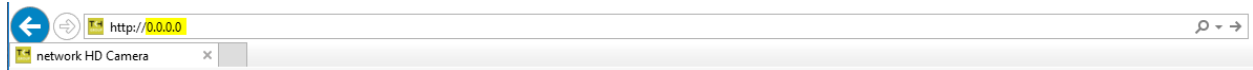
Click “Upload”.



Click SAVE and Reboot.

SOP for CCTVs in SunGuide

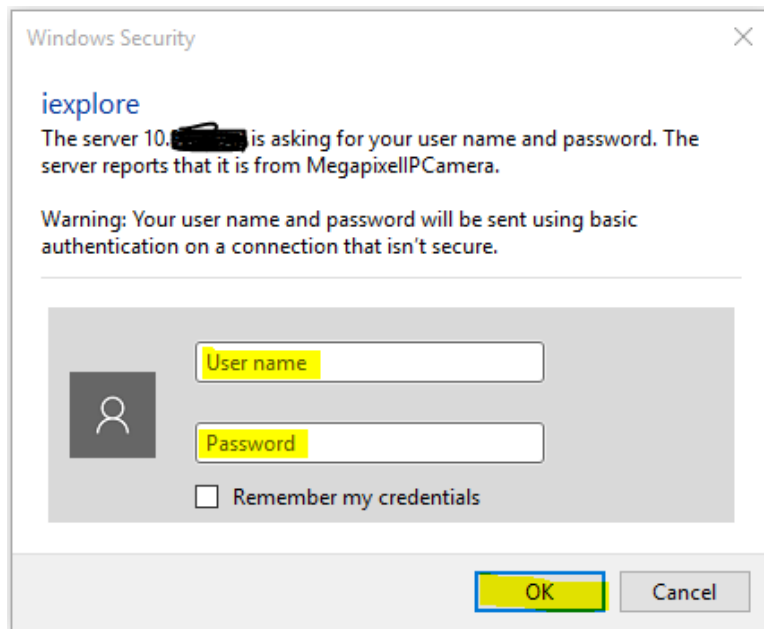
After camera reboots, log into the camera, use Internet Explorer or Chrome to access the camera's user interface. Type in the assigned IP address.



Enter the following:

Default user name: < Call ITS if needed >

Default password: < Call ITS if needed >



Click on "OK".

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3. Encoder/Video settings:

Click on “Streaming”.

Click on “Video format”.

Set the following parameters for the “Video Resolution”.

Video Resolution: < H.264 + H.264 >

H.264-1 format: < 1024 x 768 (30fps) >

H.264-2 format: < 352 x 240 (30fps) >

BNC support: < Yes >

Video Format

Video Resolution :
H.264 + H.264

Format 1 : 1024 x 768 (30 fps) H-264-1

Format 2 : 352 x 240 (30 fps) H-264-2

BNC support : Yes

Save

Note :
Image attachment by FTP or E-mail will be available only while MJPEG streaming is selected.

Video Rotate Type :
Normal video

Save

GOV Settings :
H.264-1 GOV Length : 30 H.264-2 GOV Length : 30
H.264-3 GOV Length : 30 H.264-4 GOV Length : 30

Save

H.264 Profile :
H.264-1 : Main profile H.264-2 : Main profile
H.264-3 : Main profile H.264-4 : Main profile

Save

Click **SAVE**.

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Click on “Video Compression”.

Set the following parameters for the “Video Compression”.

MJPEG Q factor: < 35>

H.264-1 Compression setting: < 3000 kbit/s>

H.264-2 Compression setting: < 1500 kbit/s>

Compression information setting: < Check box >

The screenshot displays the SunGuide web interface for configuring video compression. The top navigation bar includes 'Home', 'System', 'Streaming' (selected), 'PTZ&IMAGE', and 'Logout'. The left sidebar lists various settings categories, with 'Video Compression' highlighted. The main content area is titled 'Video Compression' and contains the following sections:

- MJPEG Compression setting :** MJPEG Q factor : 35 (input field) [Save]
- H.264-1 Compression setting :** H264-1 bit rate : 3000 (input field) kbit/s [Save]
- H.264-2 Compression setting :** H264-2 bit rate : 1500 (input field) kbit/s [Save]
- H.264-3 Compression setting :** H264-3 bit rate : 2048 (input field) kbit/s [Save]
- H.264-4 Compression setting :** H264-4 bit rate : 1024 (input field) kbit/s [Save]
- Compression information setting :** Display compression information in the home page [Save]
- Rate control setting :**
 - H.264-1 rate control mode : VBR (dropdown) H.264-2 rate control mode : VBR (dropdown)
 - H.264-3 rate control mode : VBR (dropdown) H.264-4 rate control mode : VBR (dropdown)[Save]

Click SAVE.

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Click on “Video text overlay”.

Set the following parameters for the “Video text overlay”.

Select text string: < Enter CCTV number, Roadway, Direction, MileMarker, 000.0>

For example: 3610_I-75_NB_MM_367.9

String align: < Left >

Text overlay color: < white >

Text overlay size: < Large or 74 >

The screenshot shows the SunGuide web interface. The top navigation bar includes 'Home', 'System', 'Streaming' (selected), 'PTZ&IMAGE', and 'Logout'. The left sidebar lists various settings: 'Video Format', 'Video Compression', 'Video text overlay' (highlighted), 'Video OCX Protocol', 'Video Frame Rate', and 'Audio'. The main content area is titled 'Video text overlay' and features a video preview window showing a road intersection with a red box around the text 'SR-40 AT Nova Road'. Below the preview are three configuration sections: 'Overlay type' with checkboxes for 'Include date & time', 'Include subtitle', 'Include preset title', 'Include text string' (checked), and 'Include Image'; 'Text overlay setting' with dropdowns for 'Text overlay color' (white) and 'Text overlay size' (74); and 'Image overlay setting' with a numeric input for 'Image transparency' (0) and an 'Image upload' section with 'Browse...' and 'Upload' buttons. 'Set' buttons are present at the end of each configuration section.

Click “Set”.

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Click on “Video stream protocol”.

Set the following parameters for the “Video stream protocol”.

Video stream protocol: < Select Multicast mode >

Multicast H.264-1 Video Address: < 232.X.X.X >

Port: < 5554 >

Multicast H.264-2 Video Address: < 232.X.X.X >

Port: < 5556 >

Multicast TTL <64>

SECURITY SOLUTIONS

Home System Streaming PTZ&IMAGE Logout

Video Format

Video Compression

Video text overlay

Video OCX Protocol

Video Frame Rate

Audio

Video OCX Protocol

Video OCX protocol setting :

- RTP over UDP
- RTP over RTSP(TCP)
- RTSP over HTTP
- MJPEG over HTTP
- Multicast mode**

Multicast H.264-1 Video Address	232.0.0.0	Port	5554
Multicast H.264-2 Video Address	232.0.0.0	Port	5556
Multicast H.264-3 Video Address	0.0.0.0	Port	0
Multicast H.264-4 Video Address	0.0.0.0	Port	0
Multicast MJPEG Video Address	0.0.0.0	Port	0
Multicast Audio Address	0.0.0.0	Port	0
Multicast TTL	64		

Save

Note:
This page only applies to video streams going to a TKH Viewer.

Click **SAVE**.

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Click on “Video frame rate”.

Ensure that the following parameters for the “Video frame rate” are set.

The screenshot displays the SunGuide web interface for configuring video frame rates. The navigation bar includes 'Home', 'System', 'Streaming', 'PTZ&IMAGE', and 'Logout'. The left sidebar lists various settings, with 'Video Frame Rate' selected. The main content area is titled 'Video Frame Rate' and contains the following settings:

- MJPEG Frame Rate Setting:** MJPEG frame rate : 30 [Save]
- H264-1 Frame Rate Setting:** H264-1 frame rate : 30 [Save]
- H264-2 Frame Rate Setting:** H264-2 frame rate : 30 [Save]
- H264-3 Frame Rate Setting:** H264-3 frame rate : 30 [Save]
- H264-4 Frame Rate Setting:** H264-4 frame rate : 30 [Save]

A large 'SIQURA' watermark is visible in the background of the settings area.

Click SAVE.

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Click on “Audio”.

Match the image below for all of the fields.

Transmission Mode: < Disable >

The screenshot shows the SunGuide web interface. The top navigation bar includes 'Home', 'System', 'Streaming', 'PTZ&IMAGE', and 'Logout'. The left sidebar menu lists 'Video Format', 'Video Compression', 'Video text overlay', 'Video OCX Protocol', 'Video Frame Rate', and 'Audio' (which is highlighted). The main content area is titled 'Audio' and contains the following settings:

- Transmission Mode:** Radio buttons for 'Full-duplex (Talk and listen simultaneously)', 'Half-duplex (Talk or listen, not at the same time)', 'Simplex (Talk only)', 'Simplex (Listen only)', and 'Disable' (which is selected).
- Server Gain Setting:** 'Input gain:' and 'Output gain:' both set to '3'.
- Bit Rate:** Set to 'uLAW'.
- Recording to Storage:** Set to 'Disable'.

Each setting has a 'Save' button below it. A large 'SIQURA' watermark is visible in the background of the main content area.

Click SAVE.

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4. PTZ and Image settings:

Click on “Preset”.

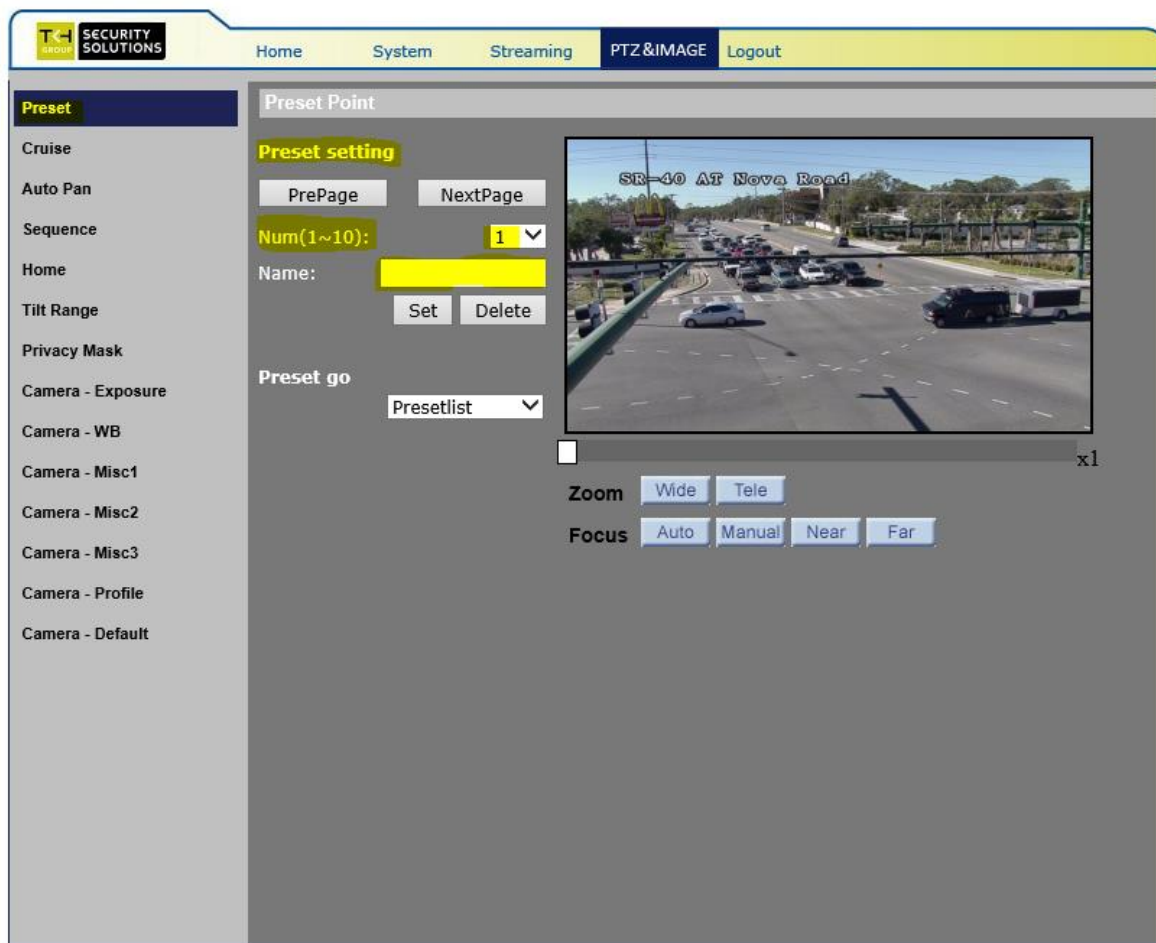
Set the following parameters for the “PTZ and Image”. Click “Set” after each entry.

Preset setting 1: < NB >

Preset setting 2: < SB >

Preset setting 5: < NB Zoom >

Preset setting 6: < SB Zoom >



Log out of device.