VINGTOR STENTOFON
by ZENITEL GROUP

turbine

Configuration Manual

Turbine Compact IP Video Stations

TCIV-2
TCIV-3
TCIV-6

About this Document

Document Scope

This document describes the setup procedure and configuration of the various models of the Turbine Compact IP Video station series.

Station Firmware Version: VSF-Turbine 4.7

Product	Item Number
Tubine Compact IP Video Station - TCIV-2	1008115020
Tubine Compact IP Video Station - TCIV-3	1008115030
Tubine Compact IP Video Station - TCIV-6	1008115060

Publication Log

Rev.	Date	Author	Status	Comments
1.0	21.12.2015	HKL	Published	
1.1	9.5.2016	HKL	Published	Same IP for camera & station
1.2	20.6.2016	HKL	Published	New screenshots IP Desktop
1.3	22.8.2016	HKL	Published	Pulse and SIP for IP Desktop
1.4	27.9.2017	HKL	Published	ITSV-1, SW 4.7

Related Documentation

For further information, refer to the following documentation:

Doc. number	Documentation
A100K11194	Turbine IP Stations Technical Manual
A100K11625	Turbine Compact IP Video Station Mounting Guide
A100K11293	Turbine Compact IP Station Getting Started for Alphacom
A100K11335	Turbine Compact IP Station Getting Started for SIP
A100K11336	Turbine Compact IP Station Getting Started for Pulse
A100K11664	IP Desktop Station with Video Display Manual
A100K11619	VS-IMT User Manual
A100K11705	ITSV-1 Video Phone Quick Installation Guide

Contents

Figures

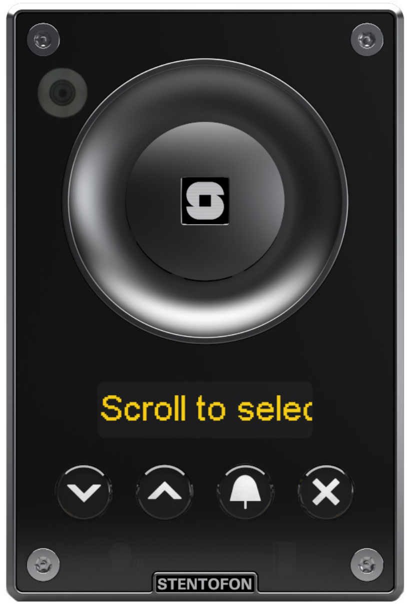
1 Turbine Compact IP Video Stations

All IP Video stations in the Turbine Compact series offers audio features such as: HD voice quality, Open Duplex, Active Noise Cancellation, MEMS microphone, a 10W Class D amplifier and our unique speaker grille design. The Video camera features wide FoV HD Video, Digital PTZ, and support for H.264 or MJPEG.

There are three station models in the Turbine Compact IP Video series:

TCIV-2
Stainless steel frontplate with single call button

TCIV-3
Thermoplastic frontplate with single call button



TCIV-6
Thermoplastic frontplate with call & scrolling buttons and PMOLED display

Figure 1 Turbine TCIV-2 / TCIV-3 Station Keys & Functions

Figure 2 Turbine TCIV-6 Station Keys & Functions

2 Station Connections

2.1 External Connectors on IP Video Station

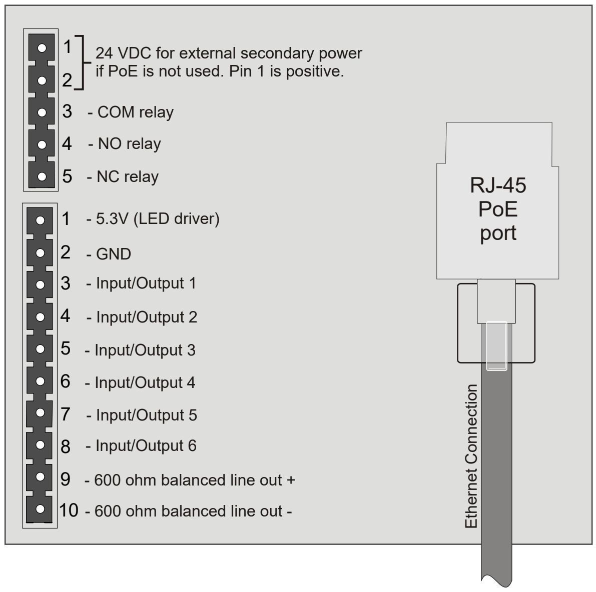


Figure 3 External Connectors on IP Station

The following table is an overview of the main connectors involved when installing the Turbine IP Stations.

Ethernet / Power	10/100 Mbps Ethernet RJ-45 port for LAN (uplink) connection. Supports PoE (802.3af). Draws power from either spare line or signal line.
Secondary Power	24 VDC (16 – 48 V) secondary power is provided from an external adapter.
Relays	There is one Double Throw relay contact with 60W switching power. COM, NO, NC contacts are provided. Max: 250VAC/220VDC, 2A, 60W.
Input/Output	6 general purpose I/Os are available. Each I/O can be configured as either button input or LED driver.
Audio Line Out	A balanced 600 ohm audio line out with induction loop signal

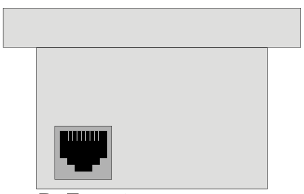
2.2 Power Supply

The Turbine Station supports Power over Ethernet (PoE, IEEE 802.3 a-f) where power can be drawn from either the spare line or signal line.

If PoE is not available, the Turbine Station can be connected to a 24 VDC local power supply.

2.3 Network Connection

There is one RJ-45 port located on the Turbine station that is used as the PoE/LAN port.



PoE port

2.4 Input/Output Connections

There are 6 I/O connection options for the Turbine Station.

These connections are used as relay contacts for door lock control and external I/O devices.

3 Starting Up the Video Station

The Turbine Video Station features an embedded web interface, which allows users to log in via a standard web browser.

ⓘ **Software upgrade procedure for the video station is the same as for the audio stations in the Turbine series. For further details, see *A100K11194 Turbine IP Stations Technical Manual*.**

To start up the station, your PC and the IP station have to be connected together via a PoE switch using network cables:

1. Connect the PC to the PoE switch
2. Connect the PoE port on the IP station to the PoE switch

When the Turbine Video Station is connected to the network, the **IP address** of the station is automatically obtained in one of two ways:

1. An IP address is obtained from a **DHCP server** if there is one.
2. If there is no DHCP server, an IP address in the range **169.254.x.x** will be assigned.

To make the station speak its IP address:

- Press the **call button** on the station
  - when the station is not registered yet

At commissioning, the IP Video station needs to be configured to enable it to be used as:

- Station subscribed to an AlphaCom server
- SIP station
- Pulse station

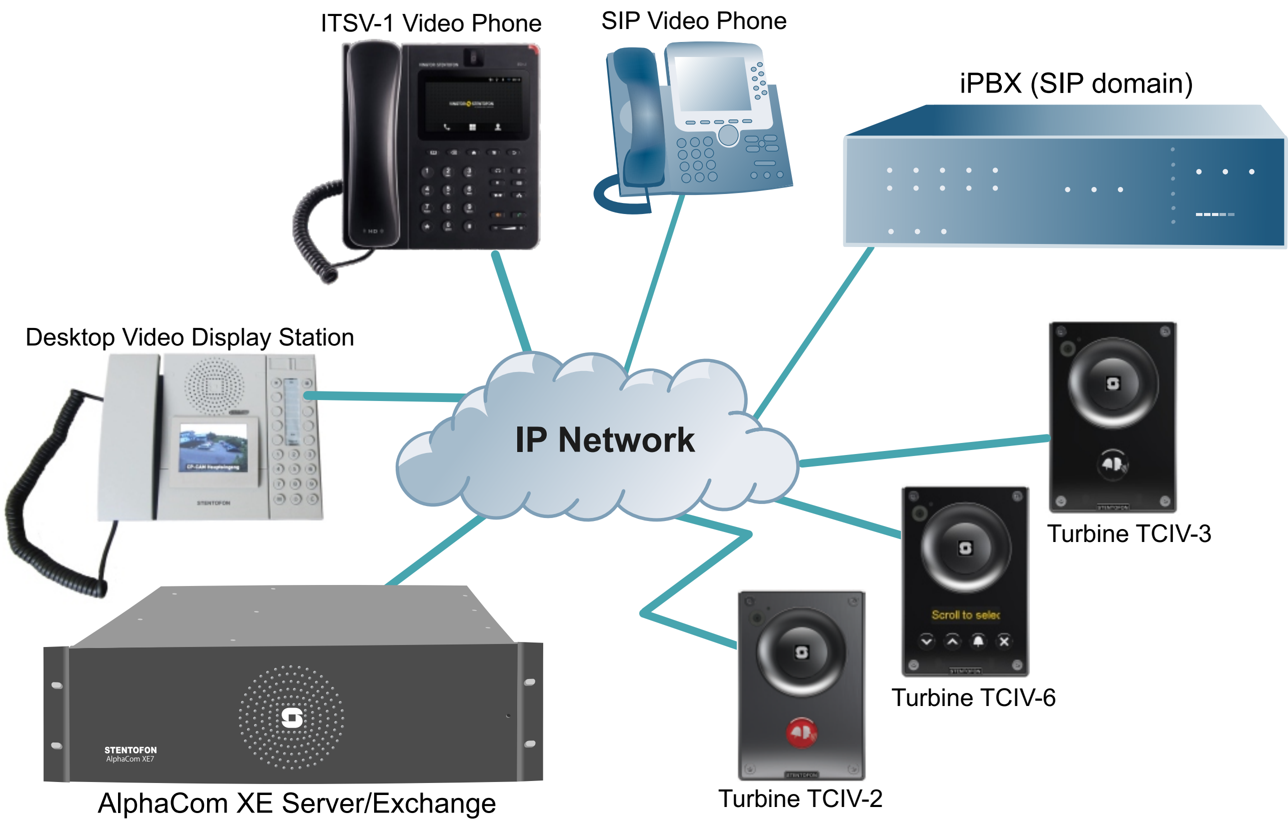


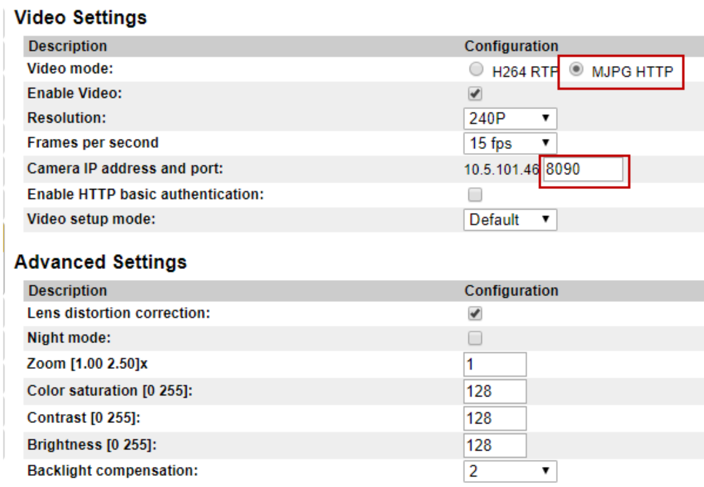
Figure 4 Turbine Video AlphaCom/Pulse/SIP System

4 Turbine Video Settings

After logging into the station via the web interface:

- Select menu option **Video Settings**

The parameters for video settings are as shown below:



Video Mode

This parameter defines whether the video stream will be in either of the two modes: **MJPG** in http or **H.264** in RTP.

Enable Video

This parameter defines whether calls made from the station will be video calls.

Camera IP address and port

This is the IP address and port number of the camera streaming the video to a web browser or video display station. ***The video camera and the Turbine station have the same IP address***.

Lens distortion correction

Enabling this parameter will correct the “fish eye” effect that can occur on the edges of the video image.

Night Mode

Enabling this parameter will make it possible for the camera to record in low-light conditions.

Zoom

This parameter sets the digital zoom of the video image. The zoom level range is 1.0 to 2.5. Once it is set higher than 1.0 it allows for offsetting the view horizontally and vertically. The offset range is -100 to 100.

Color saturation

This parameter sets the color saturation of the video image. The range is 0 to 255. Default value is 128.

Contrast

This parameter sets the contrast of the video image. The range is 0 to 255. Default value is 128.

Brightness

This parameter sets the brightness of the video image. The range is 0 to 255. Default value is 128.

Backlight compensation

This parameter sets the backlight compensation for the video image. The range is from 0 to 5. The default value is 2.

5 AlphaCom Configuration

The Turbine Video Stations are connected to the AlphaCom XE server/exchange. The AlphaCom XE server/exchange includes all main service configurations for the IP stations and only a minimum configuration is needed to be carried out on the actual station.

In AlphaCom mode, the Turbine Video stations are used together with:

- IP Desktop Station with Video Display (Item Number: 1408001635)
- ITSV-1 Video Phone (Item Number: 1490001010)

ⓘ **Configuration of the non-video part of the station such as audio and I/O settings is described in the manual: A100K11293 Turbine Compact IP Station Getting Started for AlphaCom.**

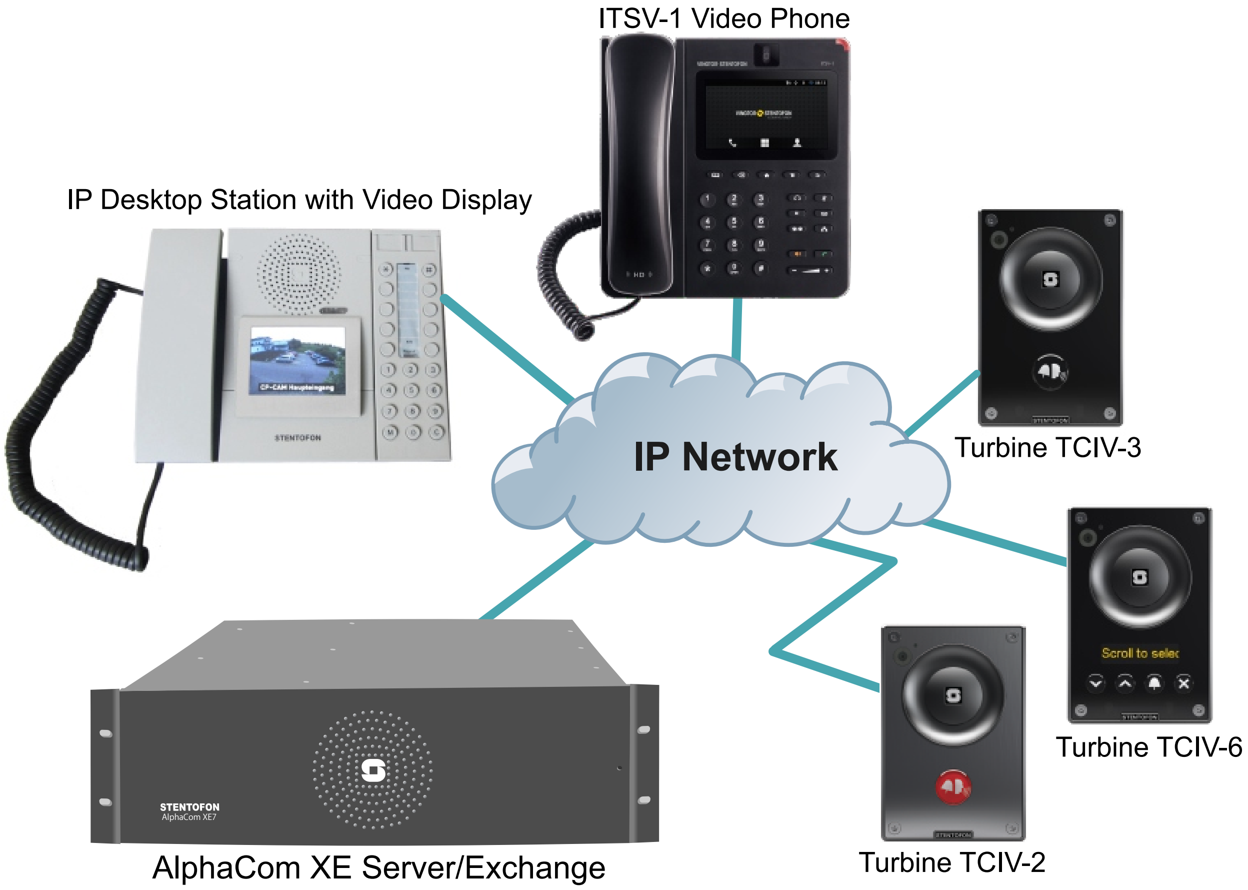


Figure 5 AlphaCom Video Intercom System

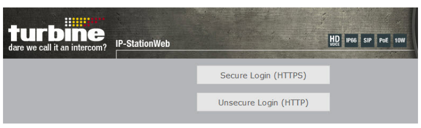
5.1 Logging into the Station

Access the station by logging into the web interface using a standard web browser:

1. Open a web browser
2. In the browser's address bar, type the station IP address and press the ENTER key
   - The station login page will be displayed.

To log into the station:

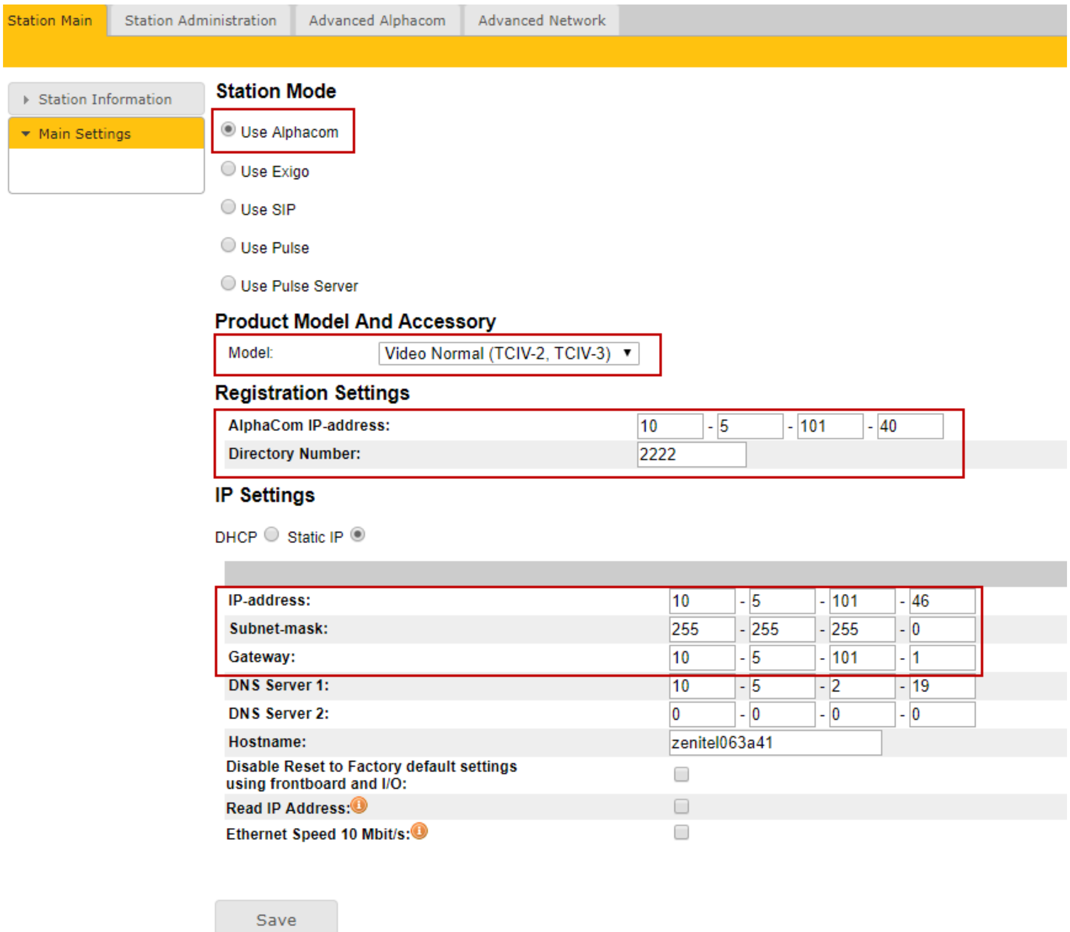
1. Click **Login**
2. Enter the default User name: **admin**
3. Enter the default password: **alphaadmin**



The **Station Information** page will now be displayed, showing the IP station configuration and status.

5.2 Station Main Settings

- Click **Station Main** > **Main Settings** to access the page for configuring station mode and IP parameters.



Station Mode

- Select the **Use Alphacom** radio-button

Product Model And Accessory

- **Model**
  Select one of the options from the drop-down box :
  - **Video Normal (TCIV-2, TCIV-3)**
  - **Video Scrolling Station (TCIV-6)**

Registration Settings

- **AlphaCom IP-address**
  - Enter IP address of AlphaCom in which TCIV is to be registered as a subscriber
- **Directory Number**
  - Enter the directory number of TCIV (e.g. 2222)

IP Settings

- **Static IP** – Select this option if the IP station shall use a static IP address. Enter values for:
  - **IP-address: IP address of TCIV** (e.g. 10.5.101.46)
  - **Subnet-mask: Enter subnet mask**
  - **Gateway: Enter Gateway IP address**
  - **DNS Server 1** (option for network administration)
  - **DNS Server 2** (option for network administration)
  - **Hostname** (option for network administration)

Read IP Address

- Check the **Read IP Address** box to enable an unregistered station to speak its IP address when the call button is pressed.
- Click **Save** followed by **Apply** to apply the new configuration settings.

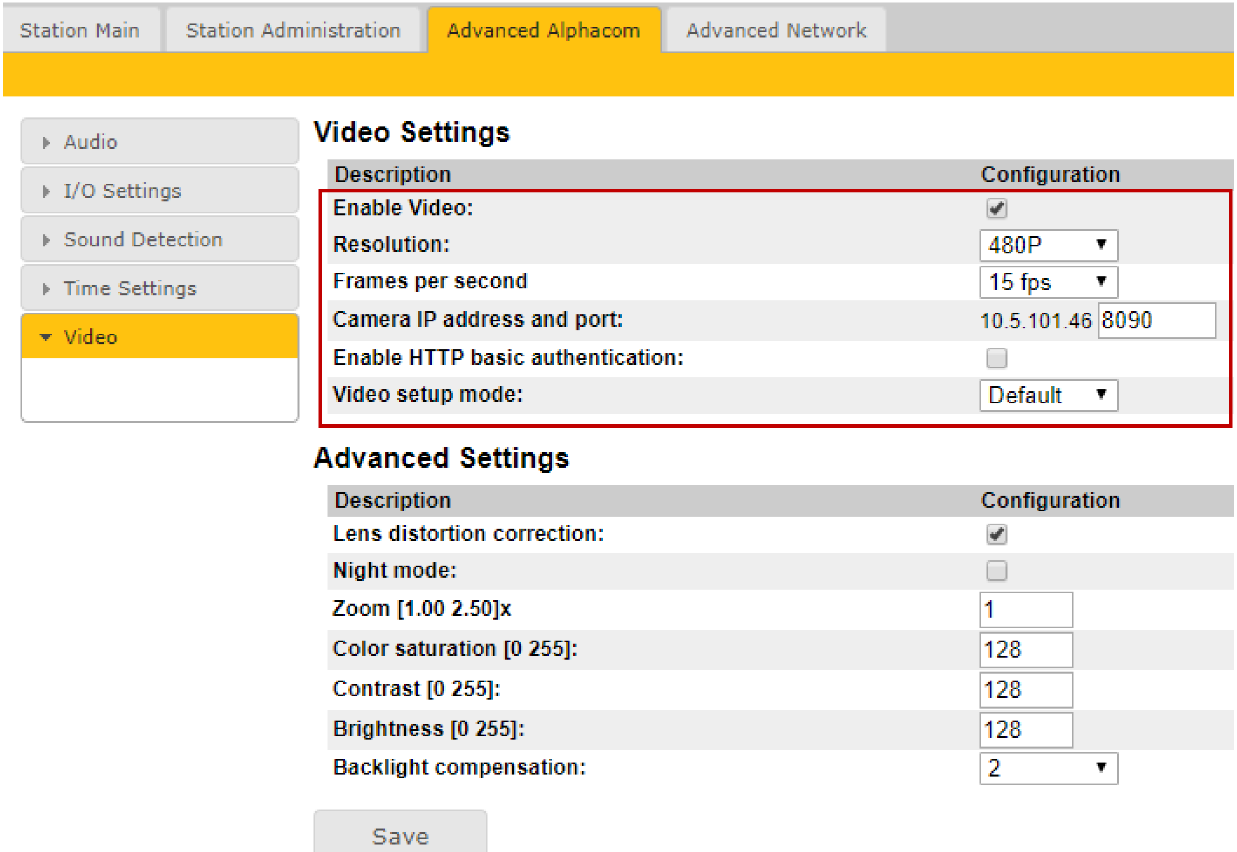
5.3 AlphaCom Configuration for ITSV-1 Video Phone

- Vingtor-Stentofon ITSV-1 Video Phone - item no. 1490001010

5.3.1 Video Settings for ITSV-1

To configure video settings:

- Select **Advanced Alphacom** > **Video**



- Select or set values for the parameters:

Enable Video: Check box to enable video calls

Resolution: Select **480P**

Frames per second: Select **15fps**

Camera IP address and port: Enter the **port number** - default is **8090**

Video setup mode: Select **Default**

ⓘ **The video camera and the Turbine station have the same IP address.**

- The video stream from the camera can be viewed by entering the IP address and port number in a web browser, e.g. **10.5.101.46:8090**

ⓘ **Video calls in the AlphaCom system are made in MJPG mode only.**

ⓘ The same **IP address** (e.g. **10.5.101.46**) and **port number** (e.g. **8090**) set here must be entered into the **Camera Settings** of the ITSV-1.

- Click **Save**
- Click **Back to config page**

5.3.2 ITSV-1 Phone Settings

- Log into the ITSV-1 phone interface by entering its IP address in a browser on your PC

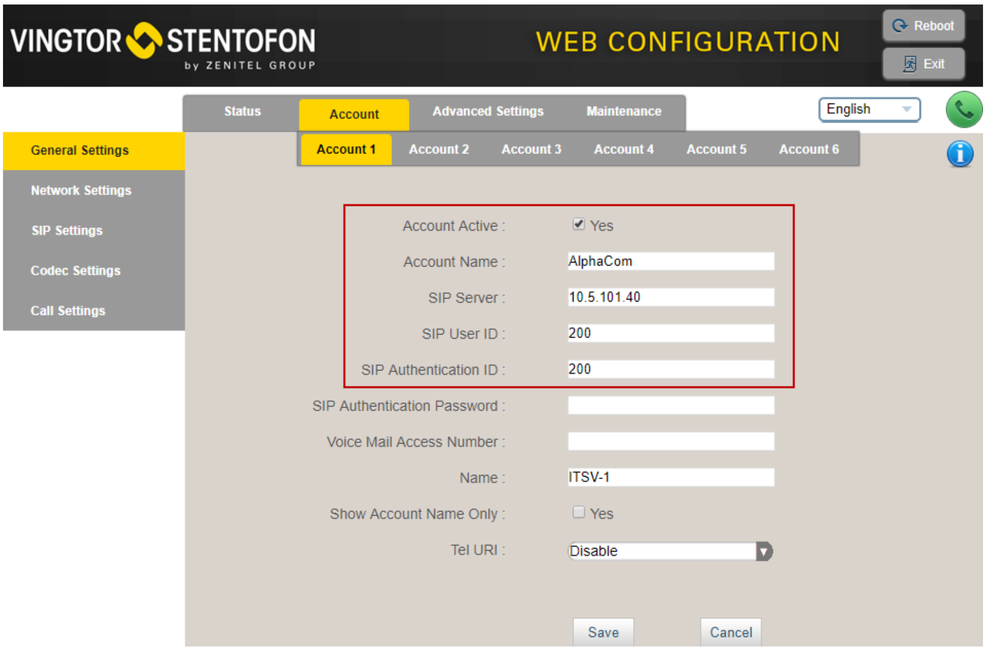
Login Credentials

Username: **admin**

Password: **alphaadmin**

5.3.3 ITSV-1 Account Setup

- Select **Account** > **Account 1** > **General Settings**



- Enter the values shown above for the parameters

Account Active: Check **Yes** box

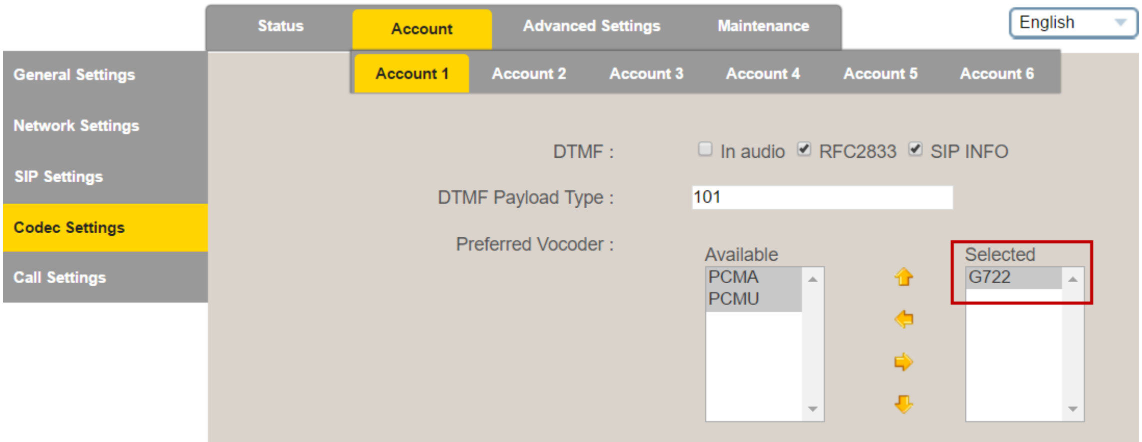
SIP Server: IP address of **AlphaCom** server (see **Main Settings** in TCIV)

SIP User ID: Directory Number of **ITSV-1** phone

SIP Authentication ID: Same as SIP User ID

5.3.4 ITSV-1 Audio Codec Settings

- Check in AlphaPro under **Users & Stations** the codec that has been selected for the SIP phone (normally **G722**)
- Select **Account 1** > **Codec Settings**

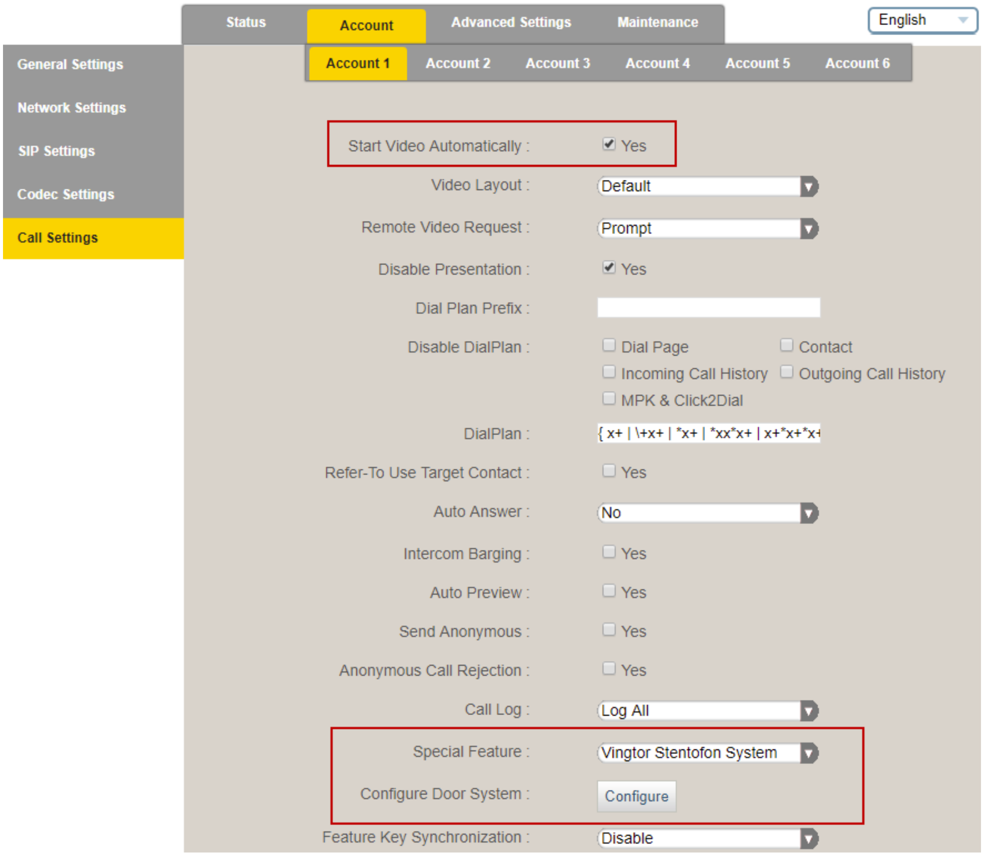


- Remove all codecs from the **Selected** list except the one defined in AlphaPro, i.e. **G722**.

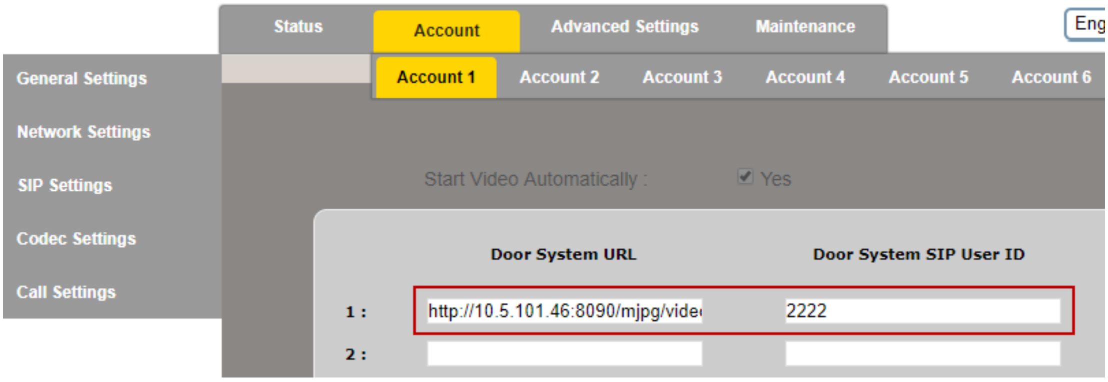
5.3.5 ITSV-1 Video Configuration

The video is streamed in MJPEG format directly from the TCIV camera to the ITSV-1. The AlphaCom server is not involved in the video stream. The TCIV camera must have a static IP address.

- Select **Account 1** > **Call Settings**



- Click the **Yes** box for **Start Video Automatically**
- Select **Vingtor Stentofon System** from **Special Feature** dropdown box
- Click **Configure** to open the camera list



- Enter the camera URL and the directory number of the TCIV station

Door System URL : http://< TCIV camera IP address>:<port no.>/mjpg/video.mjpg

Example: **http://10.5.101.46:8090/mjpg/video.mjpg**

Door System SIP User ID : Directory Number of TCIV station

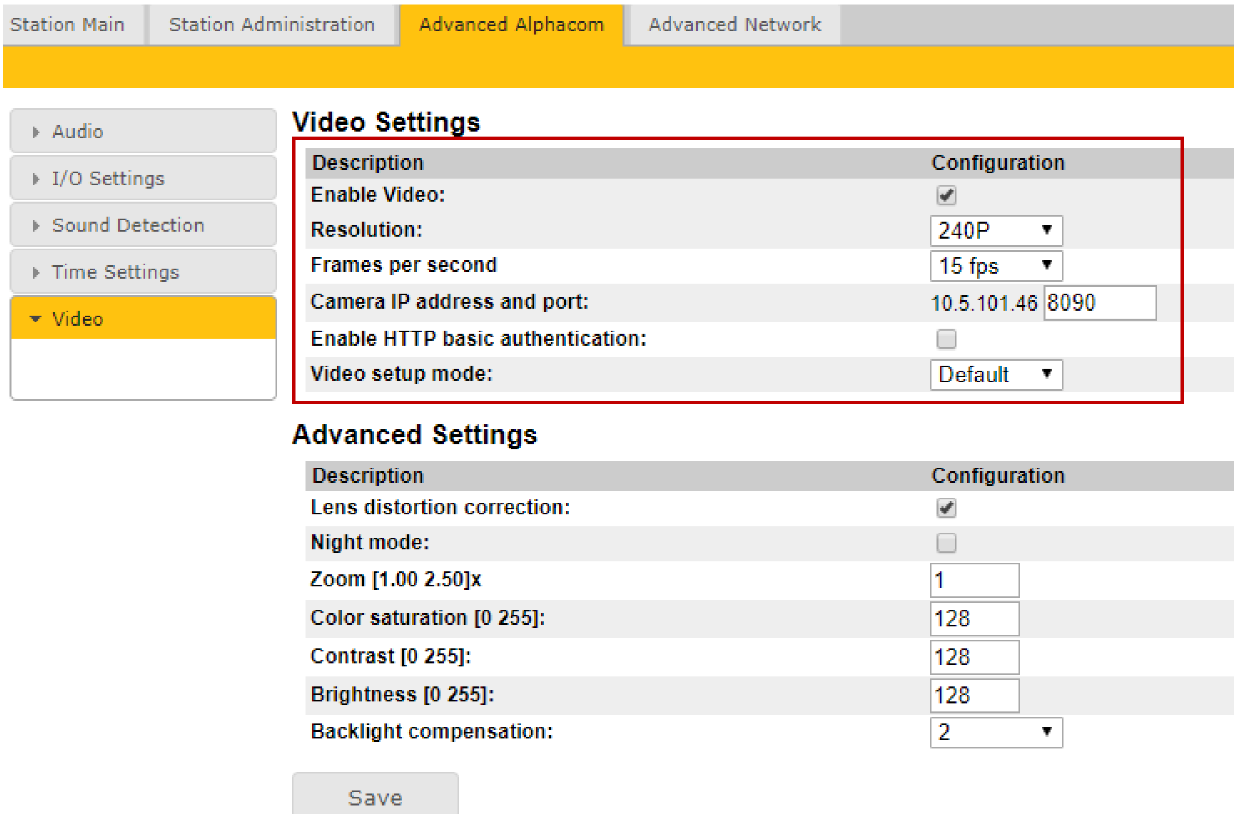
5.4 AlphaCom Configuration for VS Desktop Video Display Station

- Vingtor-Stentofon IP Desktop Video Station - item no. 1408001635

5.4.1 Video Settings for Desktop Station

To configure video settings:

- Select **Advanced Alphacom** > **Video**



- Select or set values for the parameters:

Enable Video: Check box to enable video calls

Resolution: Select **240P**

Frames per second: Select **15fps**

Camera IP address and port: Enter the **port number** - default is **8090**

Video setup mode: Select **Default**

ⓘ **The video camera and the Turbine station have the same IP address.**

- The video stream from the camera can be viewed by entering the IP address and port number in a web browser, e.g. **10.5.101.46:8090**

ⓘ **Video calls in the AlphaCom system are made in MJPG mode only.**

ⓘ The same **IP address** (e.g. **10.5.101.46**) and **port number** (e.g. **8090**) set here must be entered into the **Camera Settings** described in section “5.4.2 VS Desktop Station Video Configuration”.

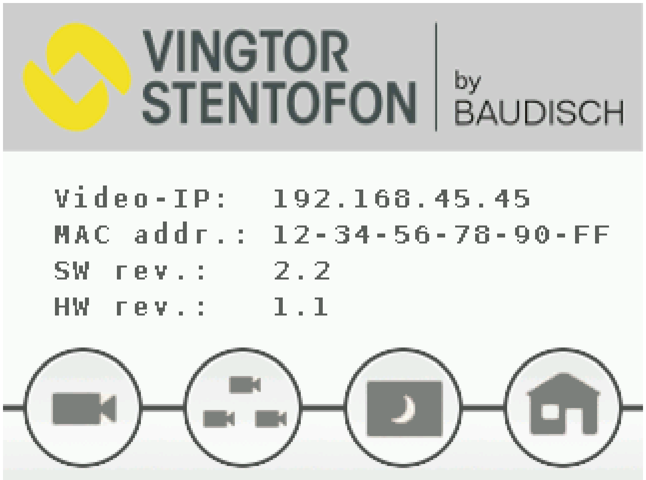
- Click **Save**
- Click **Back to config page**

5.4.2 VS Desktop Station Video Configuration

- Vingtor-Stentofon IP Desktop Video Station - item no. 1408001635

The camera of the Turbine Video station has to be set in the video display part of the Vingtor-Stentofon desktop station. This is done by logging into video part of the desktop station interface.

- Tapping anywhere on the LCD touchscreen will show the IP address of the video display part.

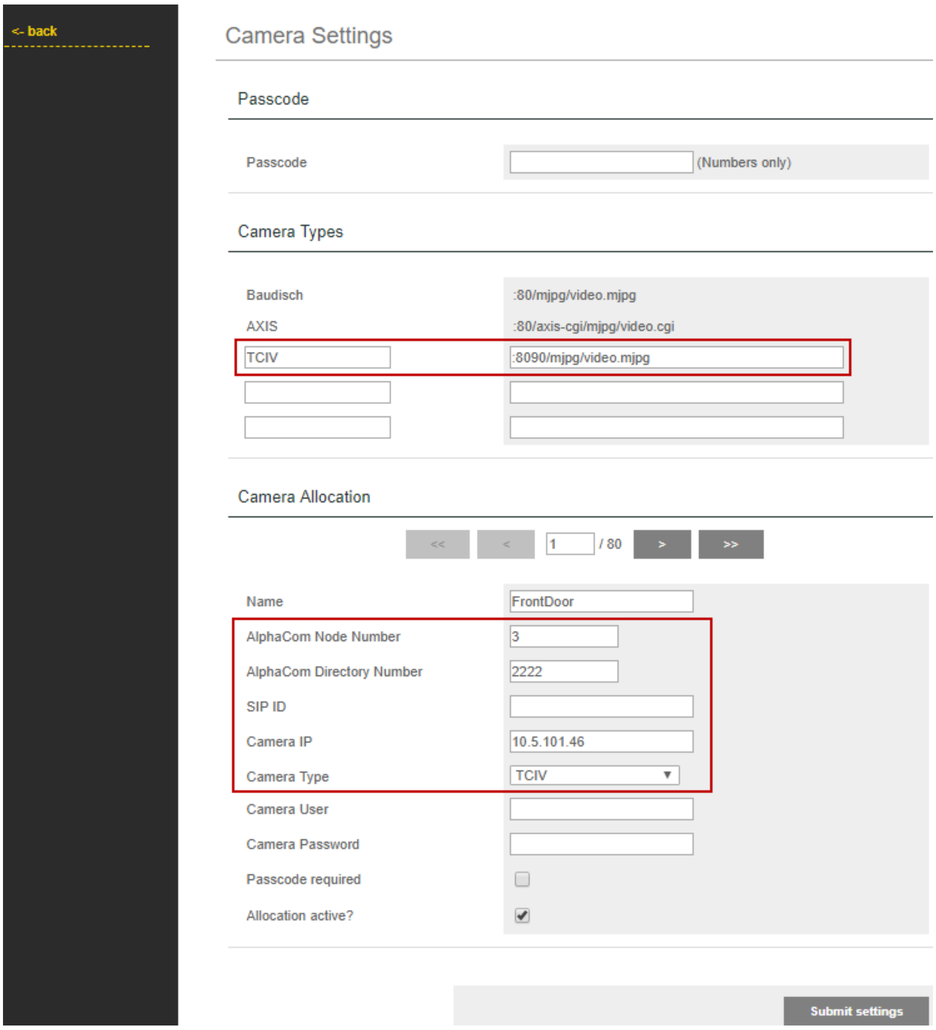


- Enter the **Video-IP** address as shown above (e.g. 192.168.45.45) in a web browser to log into the video part of the desktop station.

To log into the video part of the station:

1. Enter the default User name: **admin**
2. Enter the default password: **alphaadmin**

- Click **Cameras**



- Enter values for the parameters as shown

Camera Types

- Camera Type is **TCIV** with URL **:8090/mjpg/video.mjpg**

ⓘ **'8090' is the default port number** for the camera set in section *"5.4.1 Video Settings for Desktop Station"*

Camera Allocation

AlphaCom Node Number: Node number of network (e.g. 3)

AlphaCom Directory Number: Directory number of TCIV (e.g. 2222 as set in *Main Settings*)

Camera IP: IP address of TCIV (e.g. 10.5.101.46)

Camera Type: TCIV

- Click **Submit settings**

6 SIP Configuration

The STENTOFON SIP Stations are custom-made IP intercom stations that can integrate with any iPBX system.

In SIP mode, the Turbine Video stations have been tested for use with the following video display phones:

- IP Desktop Station with Video Display (Item Number: 1408001635)
- ITSV-1 Video Phone (Item Number: 1490001010)
- Cisco CP-9971 Video Phone
- Bria Softphone

ⓘ **Configuration of the non-video part of the station such as SIP and DAK settings is described in the manual: *A100K11335 Turbine Compact IP Station Getting Started for SIP*.**

Figure 6 SIP Video Intercom System

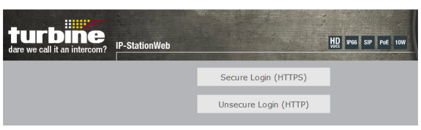
6.1 Logging into the Station

Access the station by logging into the web interface using a standard web browser:

1. Open a web browser
2. In the browser's address bar, type the station IP address and press the ENTER key
   - The station login page will be displayed.

To log into the station:

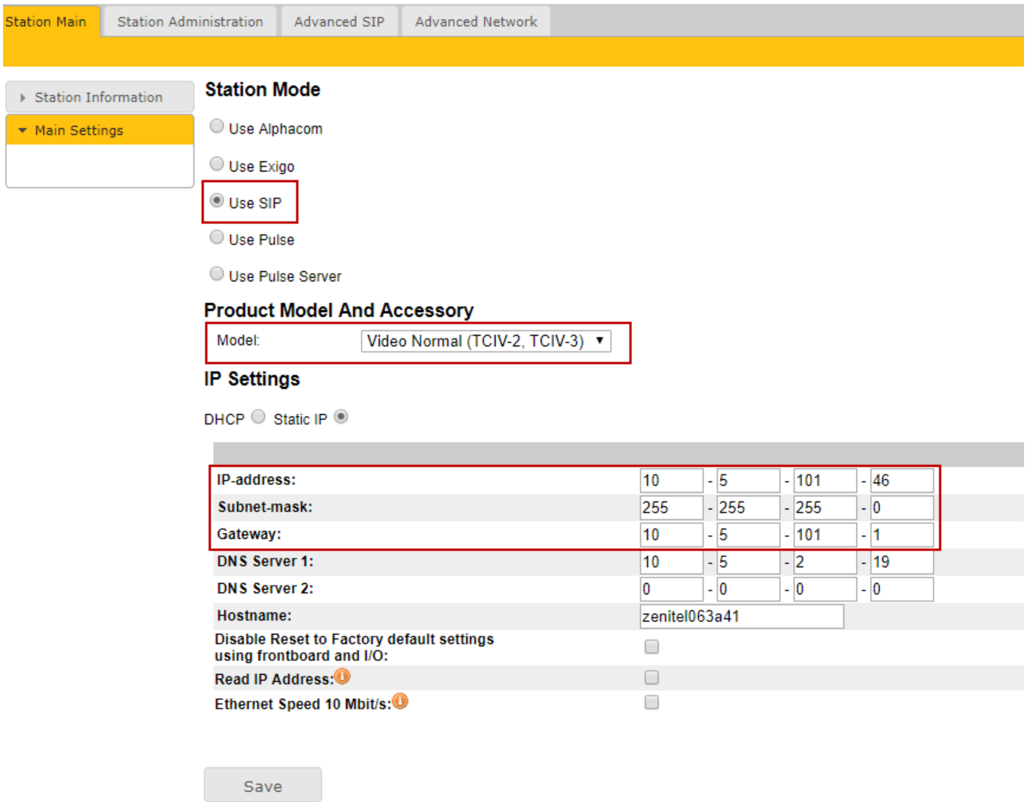
1. Click **Login**
2. Enter the default User name: **admin**
3. Enter the default password: **alphaadmin**



The **Station Information** page will now be displayed, showing the station settings and status.

6.2 Station Main Settings

- Click **Station Main** > **Main Settings** to access the page for configuring station mode and IP parameters.



Station Mode

- Select the **Use SIP** radio-button

Product Model And Accessory

- **Model**
  Select one of the options from the drop-down box :
  - **Video Normal (TCIV-2, TCIV-3)**
  - **Video Scrolling Station (TCIV-6)**

IP Settings

- **Static IP** – Select this option if the IP station shall use a static IP address. Enter values for:
  - **IP-address: IP address of TCIV** (e.g. 10.5.101.46)
  - **Subnet-mask: Enter subnet mask**
  - **Gateway: Enter Gateway IP address**
  - **DNS Server 1** (option for network administration)
  - **DNS Server 2** (option for network administration)
  - **Hostname** (option for network administration)

Read IP Address

- Check the **Read IP Address** box to enable an unregistered station to speak the IP address when the call button is pressed.

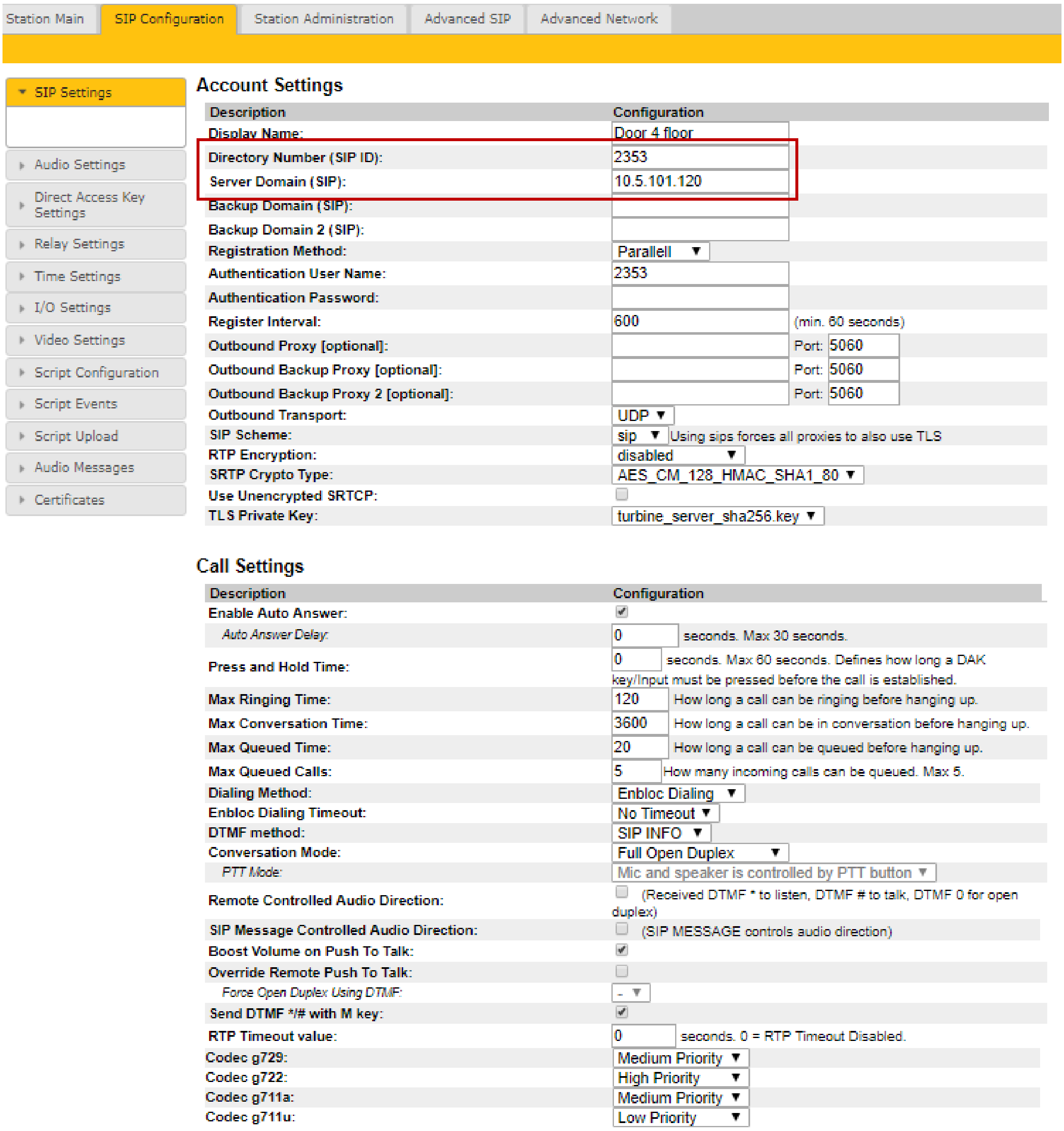
- Click **Save** followed by **Apply** to apply the new configuration settings.

6.3 SIP Configuration for ITSV-1 Video Phone

- Vingtor-Stentofon ITSV-1 Video Phone - item no. 1490001010

6.3.1 SIP Settings for ITSV-1

- Select **SIP Configuration** > **SIP Settings**



<u>**Account Settings**</u>

Directory Number (SIP ID): Directory number of Turbine Video station

Server Domain (SIP): IP address of the SIP Server

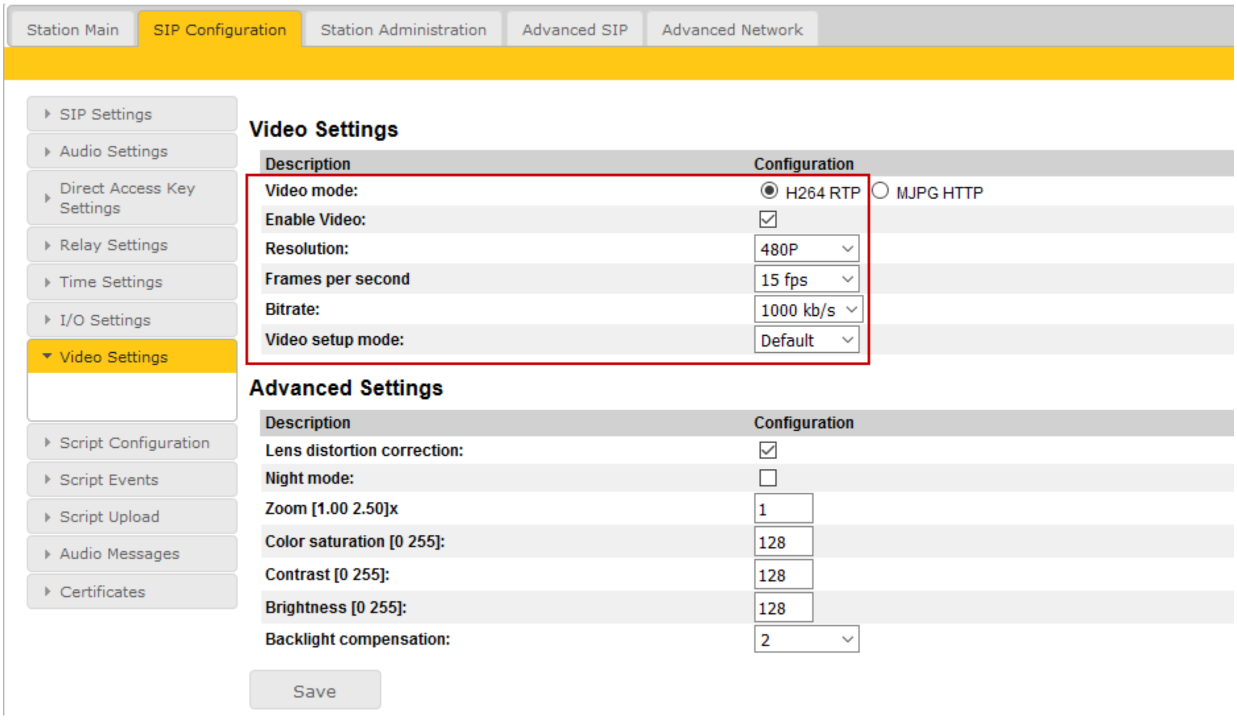
ⓘ **The values for both these parameters are determined by the system administrator in the SIP server domain.**

- Enter values for the other parameters under **Account Settings** and **Call Settings**
- Click **Save**

6.3.2 Video Settings for ITSV-1

To configure video settings:

- Select **SIP Configuration** > **Video Settings**



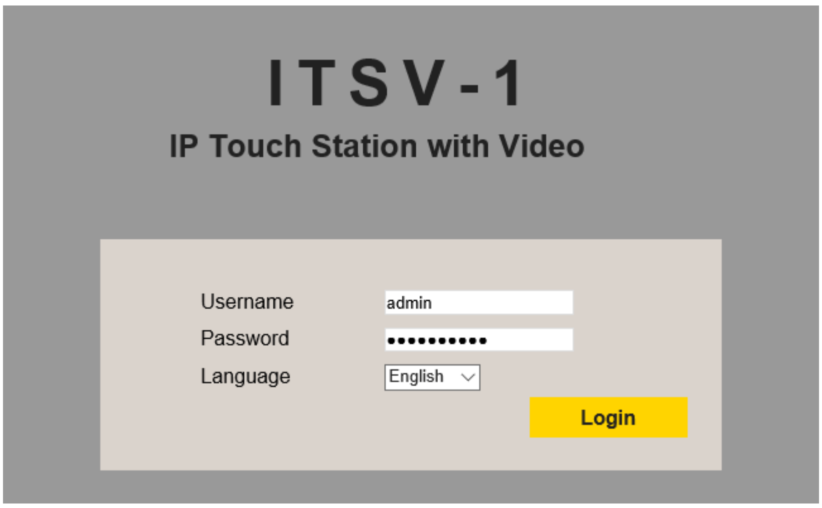
- Select or set values for the parameters:

Video Mode: Set to **H264 RTP**
Enable Video: Check box to enable video calls
Resolution: Select **480P**
Frames per second: Select **15fps**
Bitrate: Select **1000 kb/s**
Video setup mode: Select **Default**

- Click **Save**
- Click **Back to config page**

6.3.3 ITSV-1 Phone Settings

- Log into the ITSV-1 phone interface by entering its IP address in a browser on your PC



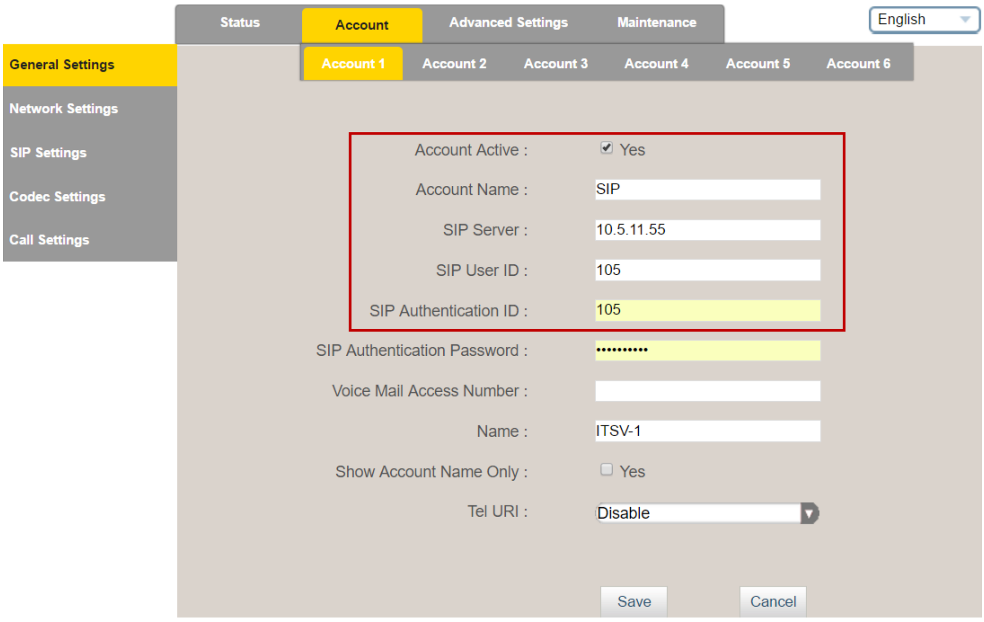
Login Credentials

Username: **admin**

Password: **alphaadmin**

6.3.4 ITSV-1 Account Setup

- Select **Account** > **Account 1** > **General Settings**



- Enter the values shown above for the parameters

Account Active: Check **Yes** box

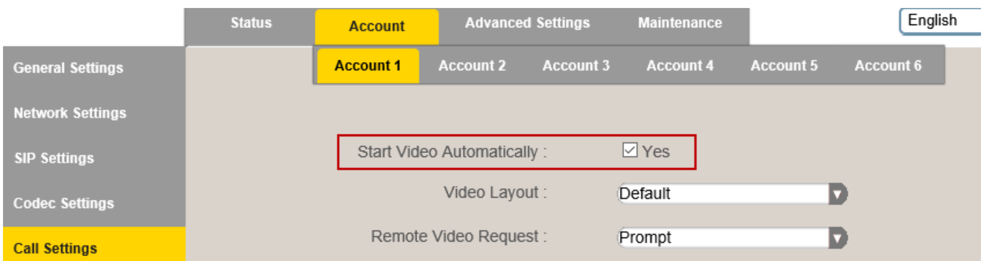
SIP Server: IP address of **SIP Server**

SIP User ID: Directory Number of the **ITSV-1** phone

6.3.5 ITSV-1 Video Configuration

The video is streamed directly from the TCIV camera to the ITSV-1. The TCIV camera must have a static IP address.

- Select **Account 1** > **Call Settings**

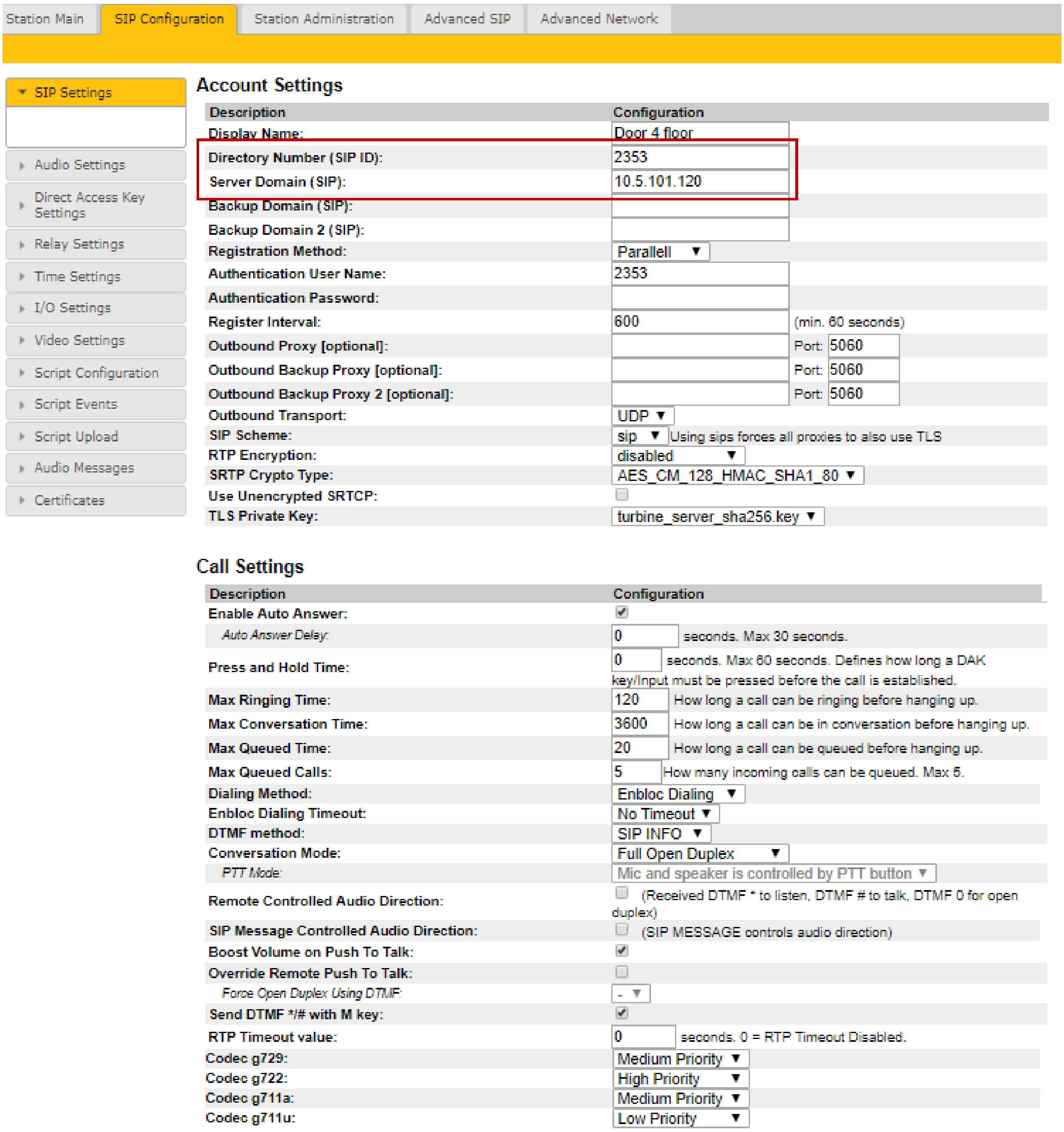


- Click the **Yes** box for **Start Video Automatically**

6.4 SIP Configuration for Cisco Video Phone

6.4.1 SIP Settings

- Select **SIP Configuration** > **SIP Settings**



Account Settings

Description	Configuration
Display Name:	Door 4 floor
Directory Number (SIP ID):	2353
Server Domain (SIP):	10.5.101.120
Backup Domain (SIP):	
Backup Domain 2 (SIP):	
Registration Method:	Parallell
Authentication User Name:	2353
Authentication Password:	
Register Interval:	600 (min. 60 seconds)
Outbound Proxy [optional]:	Port: 5060
Outbound Backup Proxy [optional]:	Port: 5060
Outbound Backup Proxy 2 [optional]:	Port: 5060
Outbound Transport:	UDP
SIP Scheme:	sip Using sips forces all proxies to also use TLS
RTP Encryption:	disabled
SRTP Crypto Type:	AES_CM_128_HMAC_SHA1_80
Use Unencrypted SRTCP:	
TLS Private Key:	turbine_server_sha256.key

Call Settings

Description	Configuration
Enable Auto Answer:	☑
Auto Answer Delay:	0 seconds. Max 30 seconds.
Press and Hold Time:	0 seconds. Max 60 seconds. Defines how long a DAK key/Input must be pressed before the call is established.
Max Ringing Time:	120 How long a call can be ringing before hanging up.
Max Conversation Time:	3600 How long a call can be in conversation before hanging up.
Max Queued Time:	20 How long a call can be queued before hanging up.
Max Queued Calls:	5 How many incoming calls can be queued. Max 5.
Dialing Method:	Enbloc Dialing
Enbloc Dialing Timeout:	No Timeout
DTMF method:	SIP INFO
Conversation Mode:	Full Open Duplex
PTT Mode:	Mic and speaker is controlled by PTT button
Remote Controlled Audio Direction:	☐ (Received DTMF * to listen, DTMF # to talk, DTMF 0 for open duplex)
SIP Message Controlled Audio Direction:	☐ (SIP MESSAGE controls audio direction)
Boost Volume on Push To Talk:	☑
Override Remote Push To Talk:	☐
Force Open Duplex Using DTMF:	-
Send DTMF */# with M key:	☑
RTP Timeout value:	0 seconds. 0 = RTP Timeout Disabled.
Codec g729:	Medium Priority
Codec g722:	High Priority
Codec g711a:	Medium Priority
Codec g711u:	Low Priority

Account Settings

Directory Number (SIP ID): Directory number of Turbine Video station

Server Domain (SIP): IP address of the Cisco Unified Communications Manager (CallManager)

ⓘ **The values for both these parameters are determined by the settings in Cisco Unified Communications Manager (CallManager).**

- Enter values for the other parameters under **Account Settings** and **Call Settings**
- Click **Save**

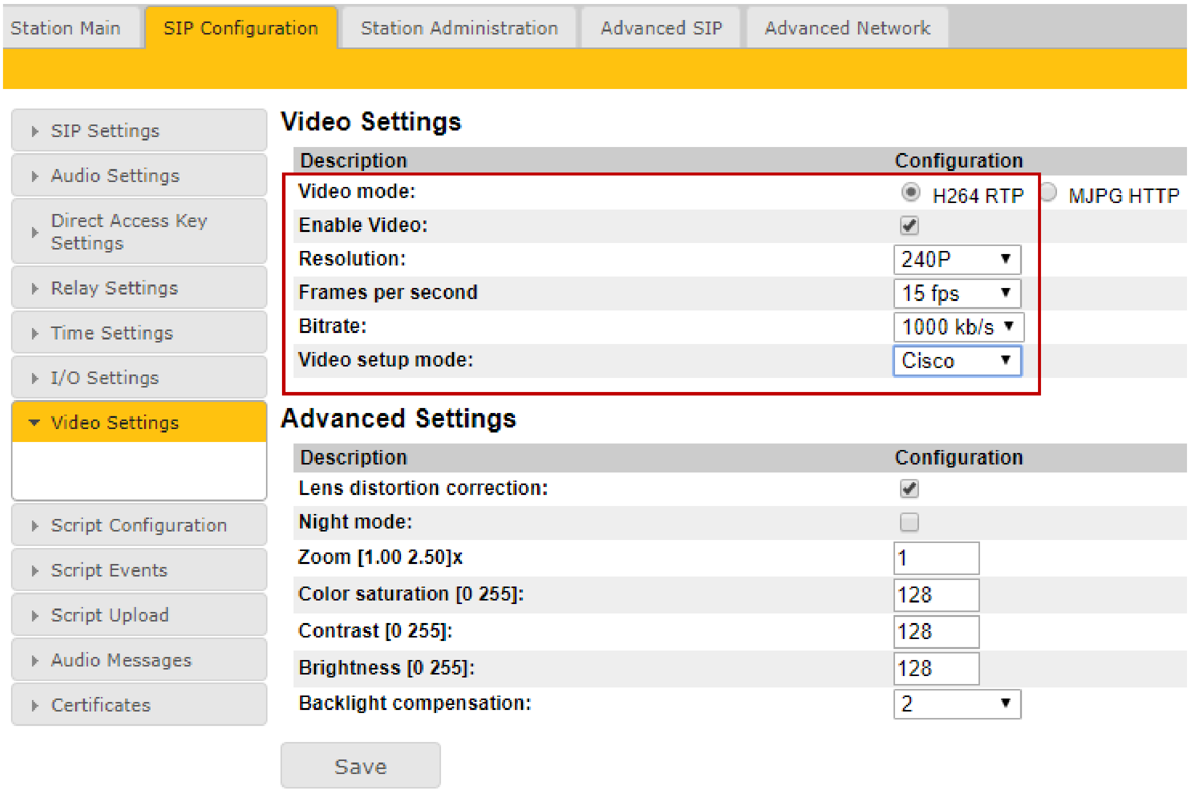
6.4.2 Video Settings for Cisco Phone

H.264 bitrate and resolution combinations for Cisco video phone

	128 kb/s	300 kb/s	500 kb/s	1 Mb/s	2.5 Mb/s
320x240 (240P)	Yes	Yes	Yes	Yes	No
640x480 (480P)	Not recommended	Yes	Yes	Yes	No
1280x720 (720P)	No	No	No	No	No

ⓘ **'Not recommended' means that this combination should not be used when bandwidth is limited.**

- Select **SIP Configuration** > **Video Settings**



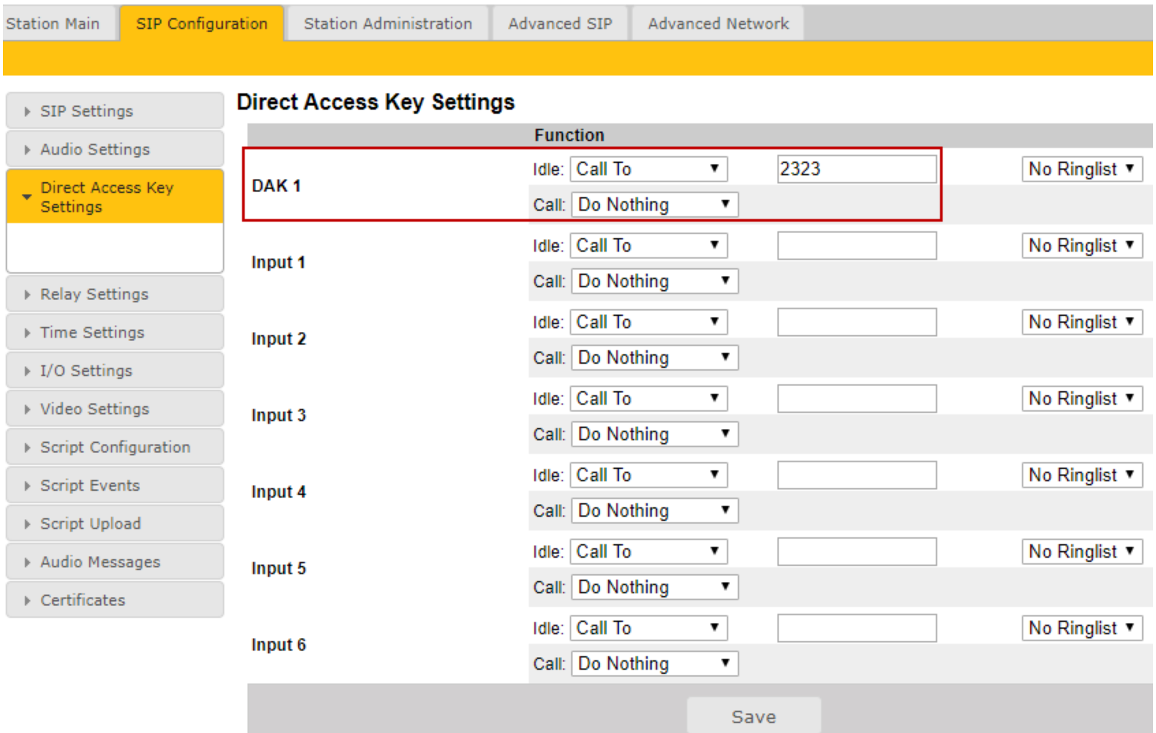
- Select or set values for the parameters according to the example above:

Video Mode: Set to **H264 RTP**
Enable Video: Check box to enable video calls
Resolution: Select **240P**
Frames per second: Select **15fps**
Bitrate: Select **1000 kb/s**
Video setup mode: Select **Cisco**

- Click **Save**
- Click **Back to config page**

6.4.3 Direct Access Key Settings

- Select **SIP Configuration** > **Direct Access Key Settings**



To set up the call key on the Turbine station to call the Cisco phone directly:

- Enter the directory number of the Cisco phone in the **Value** field for **DAK 1**

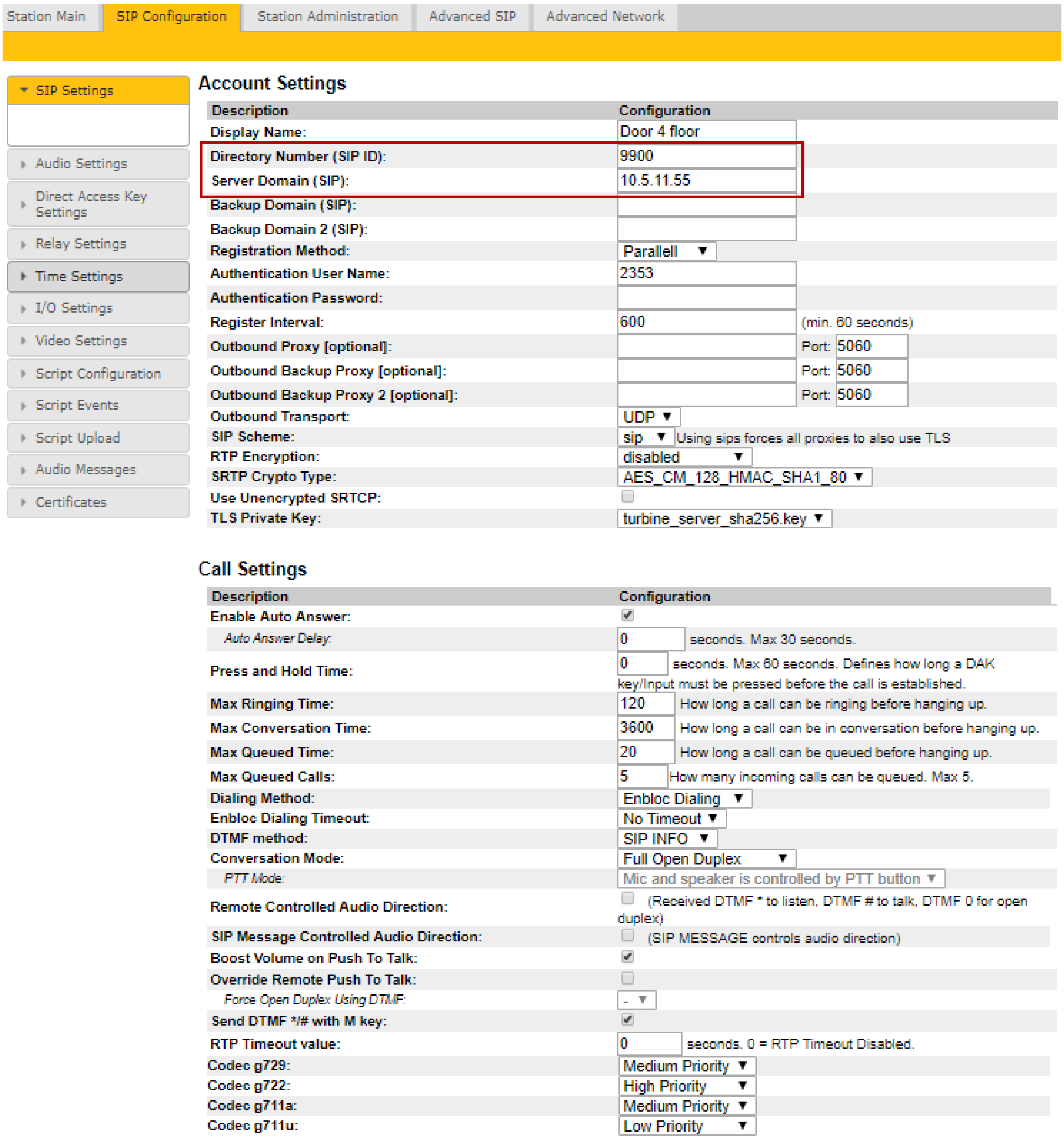
ⓘ **This parameter is valid for TCIV-2 and TCIV-3 only**

ⓘ **See *A100K11194 Turbine IP Stations Technical Manual* for the configuration and import of an Address Book for TCIV-6.**

6.5 SIP Configuration for Bria Softphone

ⓘ **Exceptions must be made for Bria in Windows Firewall to be able to receive video. During installation Bria adds rules to Windows Firewall by default, but in some cases this is not sufficient and exceptions must be added manually. If in doubt, consult your system administrator on how to add exceptions for Bria in Windows Firewall.**

- Select **SIP Configuration** > **SIP Settings**



Account Settings

Directory Number (SIP ID): Directory number of Turbine Video station

Server Domain (SIP): IP address of the SIP server

ⓘ **The values for both these parameters are determined by the system administrator in the SIP server domain.**

- Enter values for the other parameters under **Account Settings** and **Call Settings**
- Click **Save**

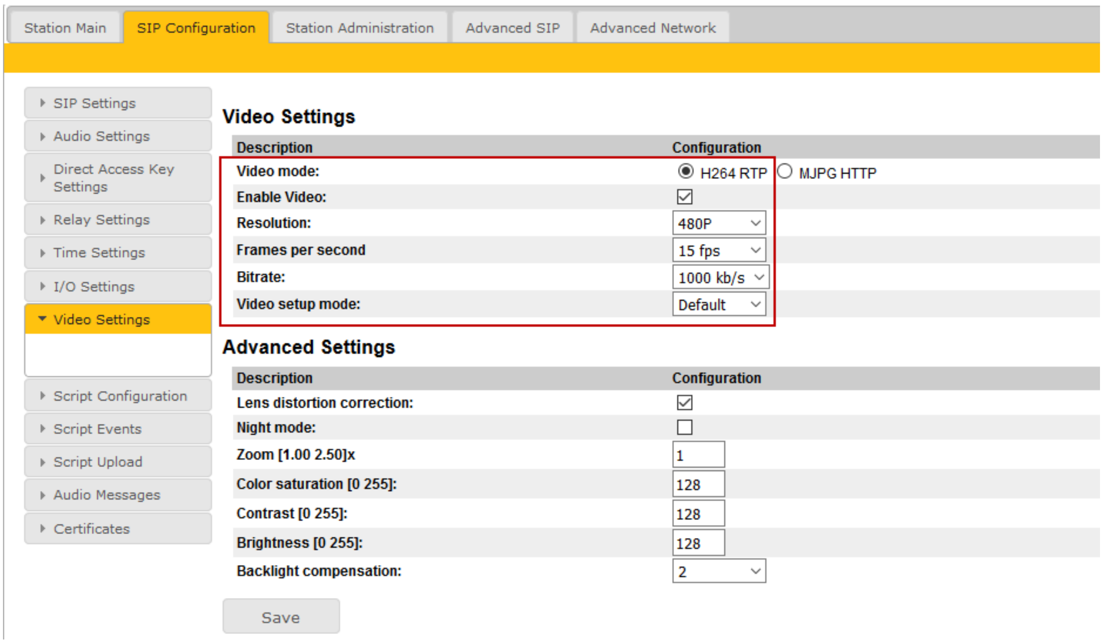
6.5.1 Video Settings for Bria Softphone

H.264 bitrate and resolution combinations for Bria softphone

	128 kb/s	300 kb/s	500 kb/s	1 Mb/s	2.5 Mb/s
320x240 (240P)	Yes	Yes	Yes	Yes	Yes
640x480 (480P)	Not recommended	Yes	Yes	Yes	Yes
1280x720 (720P)	Not recommended	Not recommended	Yes	Yes	Yes

ⓘ **'Not recommended' means that this combination should not be used when bandwidth is limited.**

- Select **SIP Configuration** > **Video Settings**



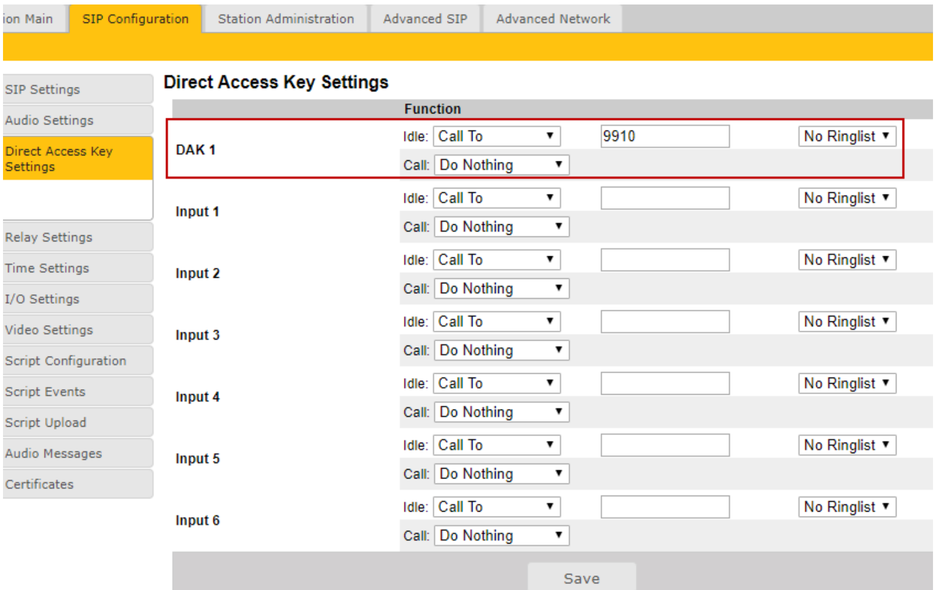
- Enter the values shown above for the parameters

Video Mode: Set to **H264 RTP**
Enable Video: Check box to enable video calls
Resolution: Select **480P**
Frames per second: Select **15fps**
Bitrate: Select **1000 kb/s**
Video setup mode: Select **Default**

- Click **Save**
- Click **Back to config page**

6.5.2 Direct Access Key Settings

- Select **SIP Configuration** > **Direct Access Key Settings**



To set up the call key on the Turbine station to call the Bria softphone directly:

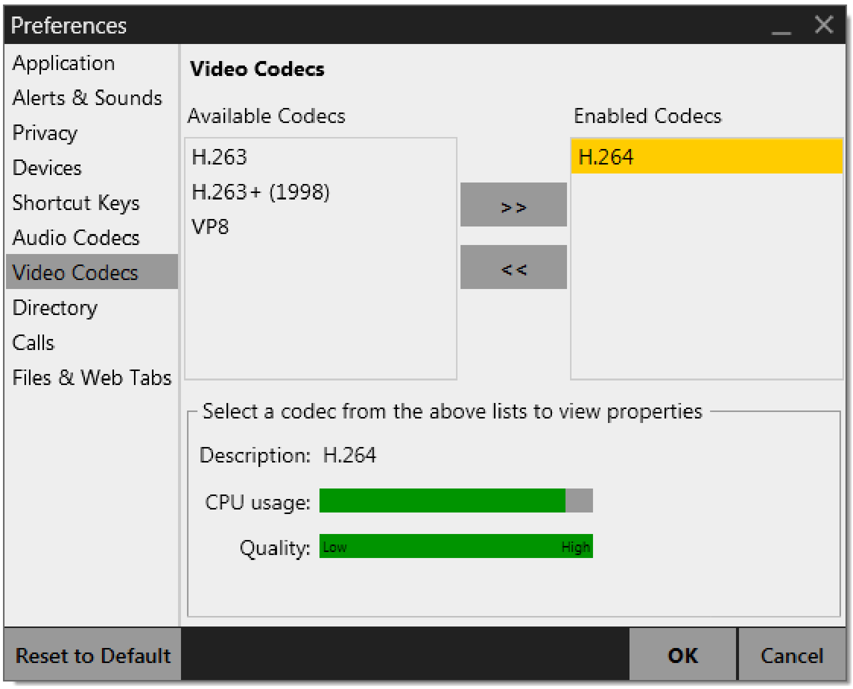
- Enter the directory number of the Bria softphone in the **Value** field for **Direct Access Key 1**
  - In this example, the directory number of the Bria softphone is 9910

6.5.3 Bria Softphone Settings

- Start the Bria softphone application on your PC

<u>Video Codecs</u>

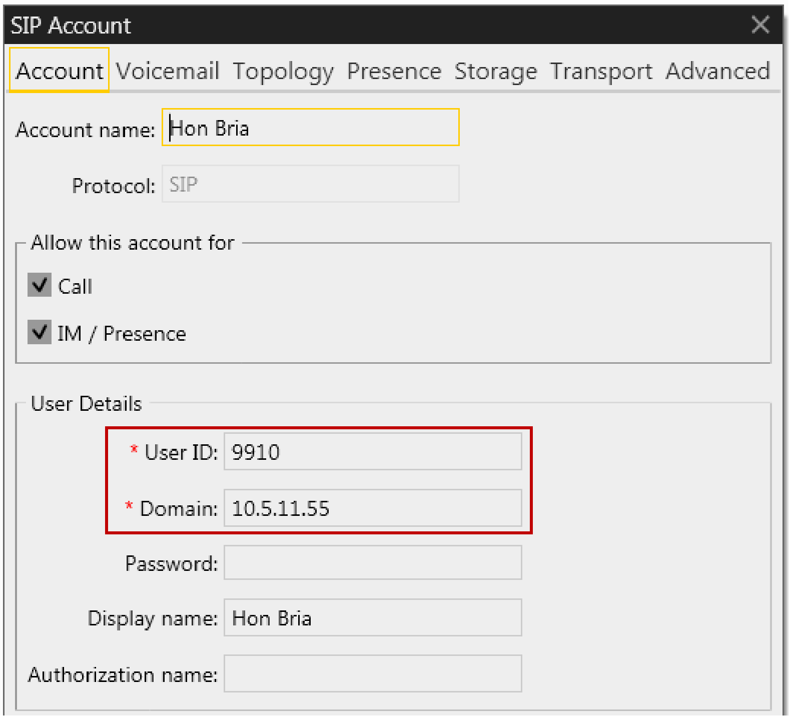
- Select **Softphone** > **Preferences** > **Video Codecs**



- Enable codec **H.264**

Account Settings

- Select **Softphone** > **Account Settings**



User Details

User ID: Directory number of the Bria softphone

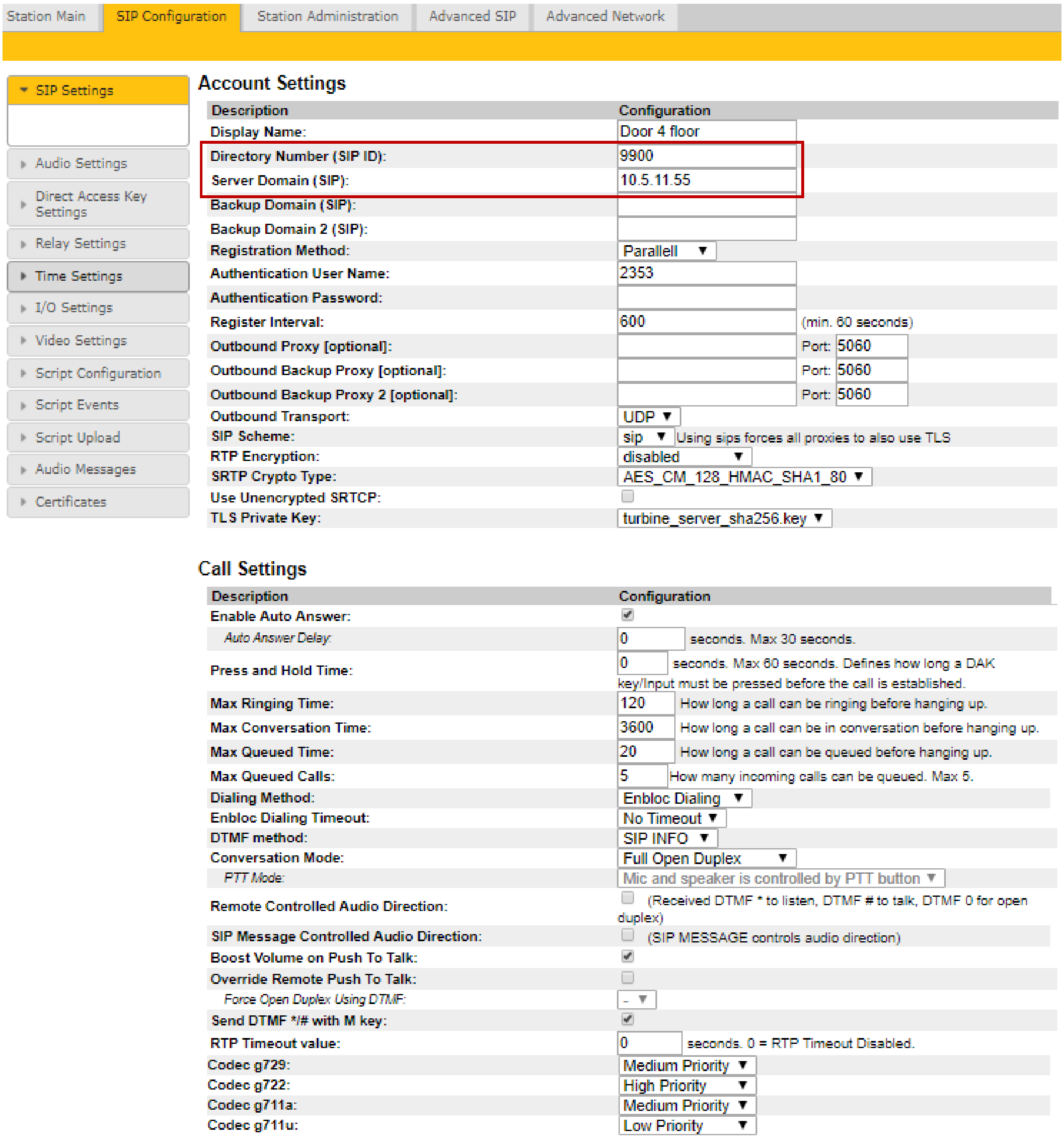
Domain: IP address of SIP Server Domain

6.6 SIP Configuration for VS Desktop Video Display Station

- Vingtor-Stentofon IP Desktop Video Station - item no. 1408001635

6.6.1 SIP Settings

- Select **SIP Configuration** > **SIP Settings**



Account Settings

Directory Number (SIP ID): Directory number of Turbine Video station

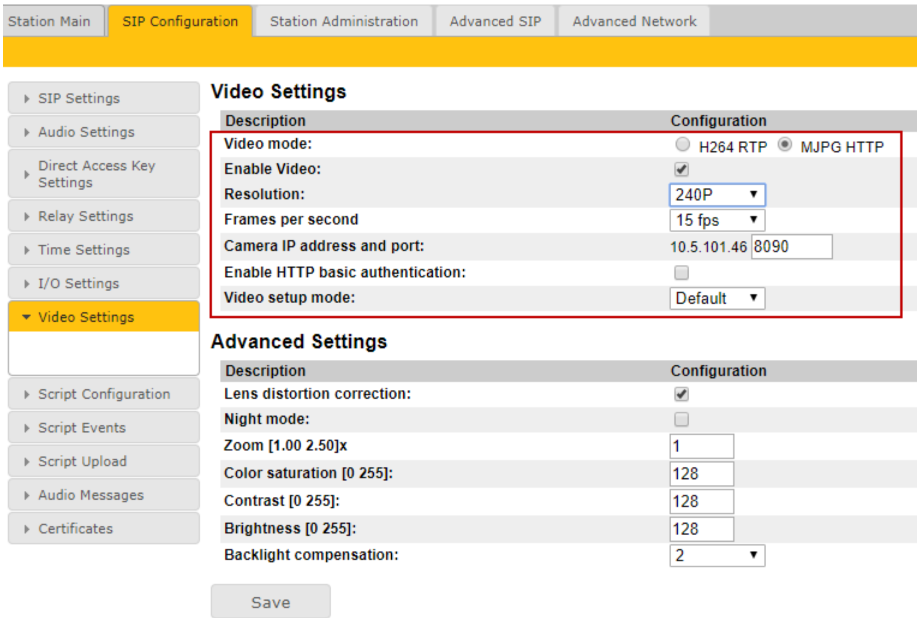
Server Domain (SIP): IP address of the SIP Server

ⓘ **The values for both these parameters are determined by the system administrator in the SIP server domain.**

- Enter values for the other parameters under **Account Settings** and **Call Settings**
- Click **Save**

6.6.2 Video Settings for Desktop Video Display Station

- Select **SIP Configuration** > **Video Settings**



- Enter the values shown above for the parameters

Video Mode: Set to **MJPG HTTP**

Enable Video: Check box to enable video calls

Resolution: Select **240P**

Frames per second: Select **15fps**

Camera IP address and port: Enter the **port number** - default is **8090**

Video setup mode: Select **Default**

ⓘ **The video camera and the Turbine station have the same IP address.**
- The video stream from the camera can be viewed by entering the IP address and port number in a web browser, e.g. **10.5.102.61:8090**

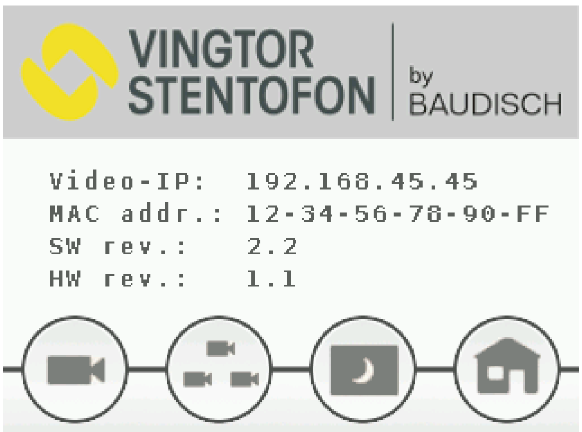
ⓘ The same **IP address** (e.g. **10.5.101.46**) and **port number** (e.g. **8090**) set here must be entered into the settings for the Desktop Station described in section *"6.6.3 Desktop Video Display Station Settings"*.

- Click **Save**
- Click **Back to config page**

6.6.3 Desktop Video Display Station Settings

The camera of the Turbine Video station has to be set in the video touchscreen of the station. This is done by logging into the video touchscreen of the desktop station interface.

- Tapping anywhere on the LCD touchscreen will show the IP address of the video display part.

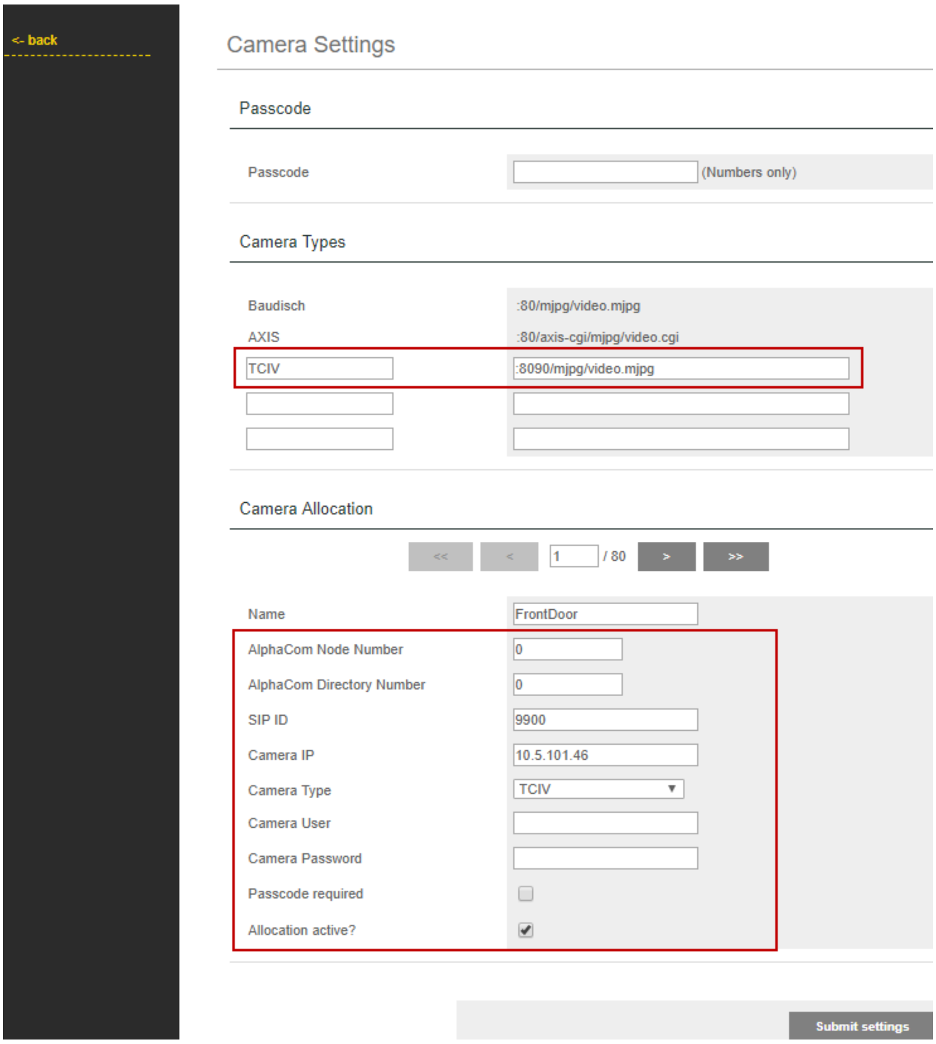


- Enter the **Video-IP** address as shown above (e.g. 192.168.45.45) in a web browser to log into the video part of the desktop station.

To log into the video part of the station:

1. Enter the default Username: **admin**
2. Enter the default password: **alphaadmin**

- Click **Cameras**



- Enter values for Camera Types and Camera Allocation as shown

<u>Camera Types</u>

- Define Camera Type for Turbine Video station TCIV by entering URL **:8090/mjpg/video.mjpg**

ⓘ **'8090' is the default port number** for the camera set in section *"6.6.2 Video Settings for Desktop Video Display Station"*.

<u>Camera Allocation</u>

AlphaCom Node Number : **0** (Not in use for SIP system)
AlphaCom Directory Number : **0** (Not in use for SIP system)
SIP ID : **Directory number of TCIV as specified in section 6.6.1** (e.g. 9900)
Camera IP : **IP address of TCIV** (e.g. 10.5.101.46)
Camera Type : **TCIV**
Allocation active? : **Check the box to enable video streaming from the camera**

- Click **Submit settings**

7 Pulse Configuration

STENTOFON Pulse is an IP-based intercom system for up to 16 intercom stations. The system works with all STENTOFON IP intercom stations. In Pulse mode, the Turbine Video stations have been tested for use with the following video display phones:

- IP Desktop Station with Video Display (Item Number: 1408001635)
- ITSV-1 Video Phone (Item Number: 1490001010)
- Snom 760 / Snom 821 Video Phone
- Bria Softphone

ⓘ **Configuration of the non-video part of the station such as directory, call and audio settings is described in the manual: A100K11336 Turbine Compact IP Station Getting Started for Pulse.**

Figure 7 Pulse Video Intercom System

ⓘ ***It is recommended to NOT use the Turbine Video station as the Pulse Server. In the Pulse system example above, the Desktop Video Display Station is used as the Pulse Server. In order for SIP stations to be registered in the system, the Pulse Server must first install SIP station licenses.***

7.1 Logging into the Station

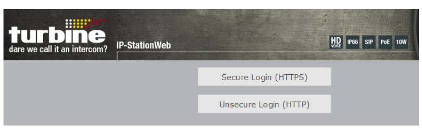
The Turbine Video Station features an embedded web interface, which allows users to log in via a standard web browser.

Access the station by logging into the web interface using a standard web browser:

1. Open a web browser
2. In the browser’s address bar, type the station IP address and press the ENTER key
   - The station login page will be displayed.

To log into the station:

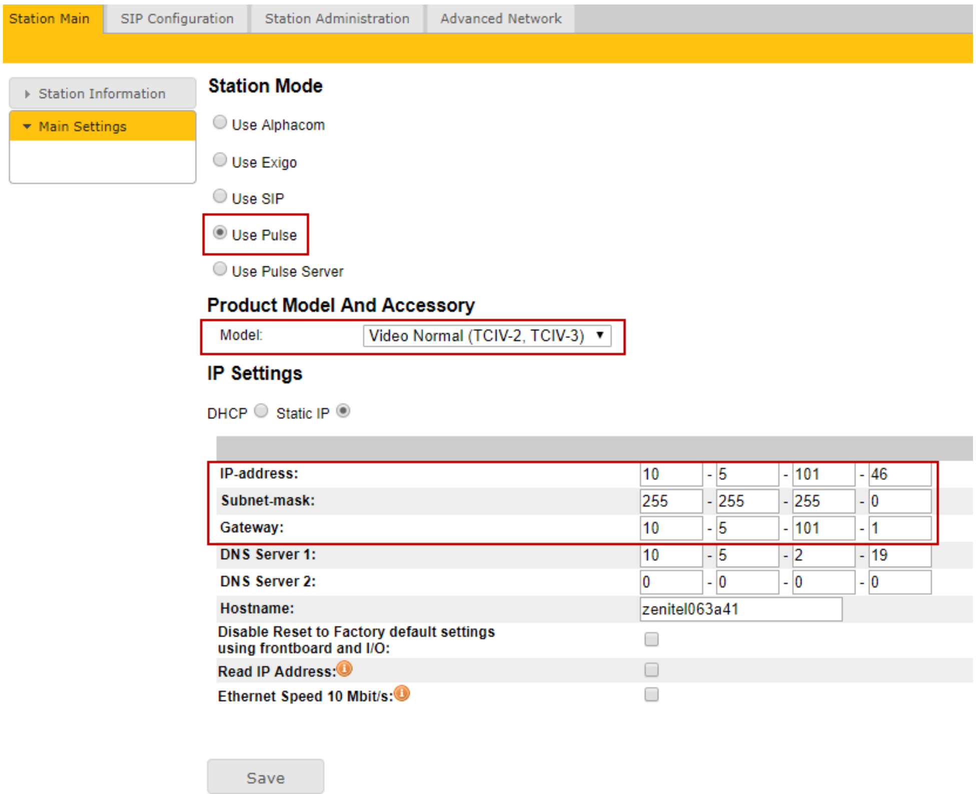
1. Click **Login**
2. Enter the default User name: **admin**
3. Enter the default password: **alphaadmin**



The **Station Information** page will now be displayed, showing the station settings and status.

7.2 Station Main Settings

- Click **Station Main** > **Main Settings** to access the page for configuring station mode and IP parameters.



Station Mode

- Select the **Use Pulse** radio-button

ⓘ ***For optimal system operation, it is recommended to NOT use TCIV-x as the 'Pulse Server'.***

Product Model And Accessory

Model: Select one of the options from the drop-down box :

- **Video Normal (TCIV-2, TCIV-3)**
- **Video Scrolling Station (TCIV-6)**

IP Settings

- **Static IP** – Select this option if the IP station shall use a static IP address. Enter values for:
  - **IP-address: IP address of TCIV** (e.g. 10.5.101.46)
  - **Subnet-mask: Enter subnet mask**
  - **Gateway: Enter Gateway IP address**
  - **DNS Server 1** (option for network administration)
  - **DNS Server 2** (option for network administration)
  - **Hostname** (option for network administration)

Read IP Address

- Check the **Read IP Address** box to enable an unregistered station to speak the IP address when the call button is pressed.

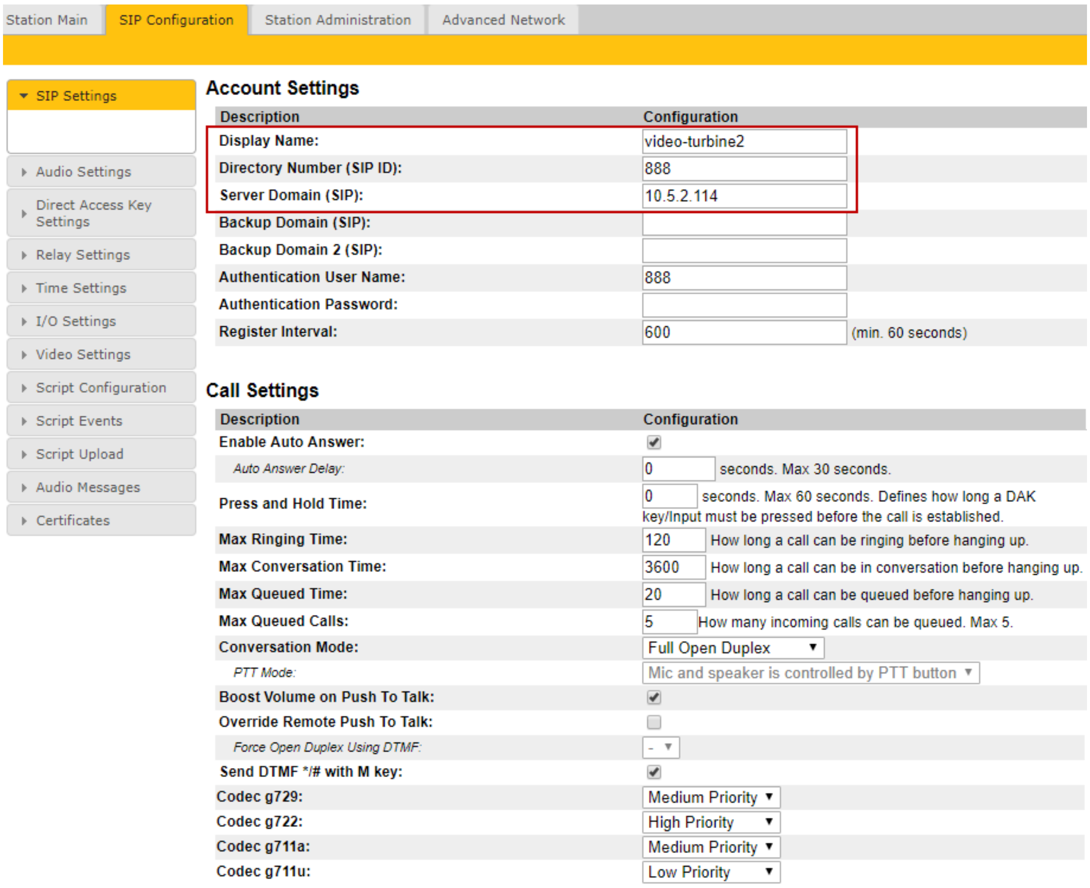
- Click **Save** followed by **Apply** to apply the new configuration settings.

7.3 Pulse Configuration for ITSV-1 Video Phone

- Vingtor-Stentofon ITSV-1 Video Phone - item no. 1490001010

7.3.1 SIP Settings

- Select **SIP Configuration** > **SIP Settings**



<u>**Account Settings**</u>

Directory Number (SIP ID): directory number of Turbine Video station

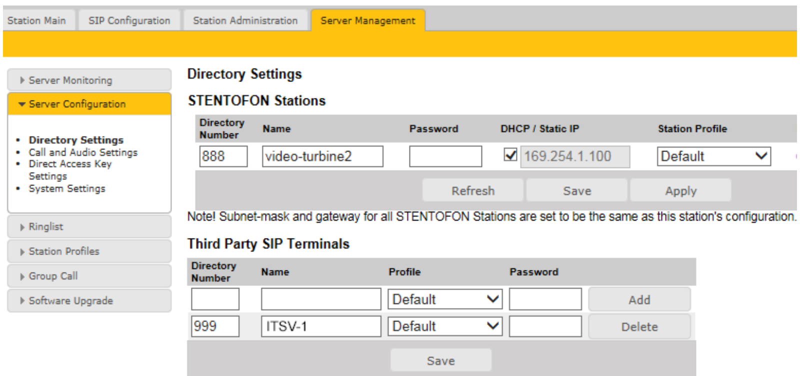
Server Domain (SIP): IP address of intercom station set up as Pulse Server

- Click **Save**
- Click **Back to config page**

7.3.2 Third Party SIP Terminals

ⓘ **To configure third-party SIP terminals, you need to log into the station that has been set up as the Pulse Server.**

- Select **Server Management** > **Server Configuration** > **Directory Settings**



Under **Third Party SIP Terminals**:

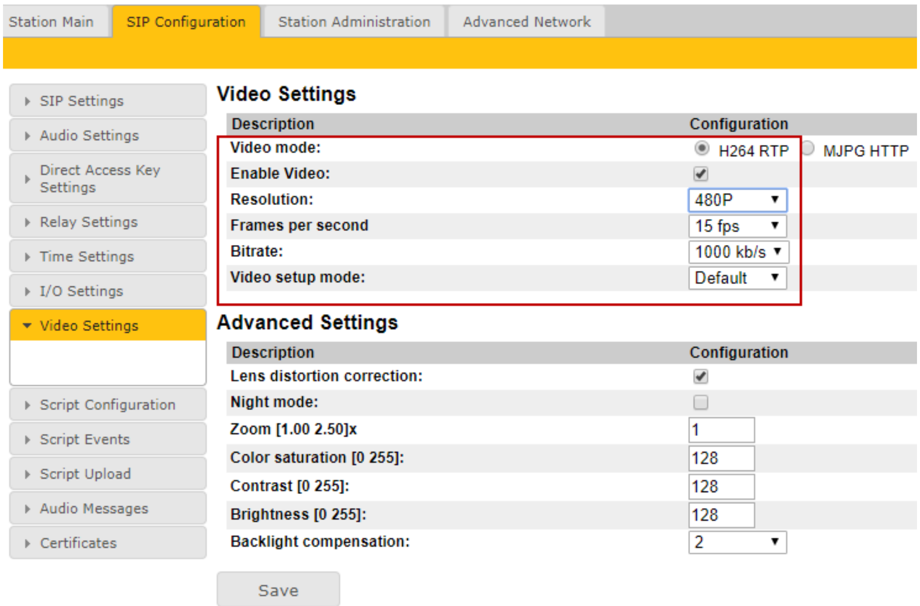
- Enter the **Directory Number** and **Name** of the ITSV-1 Video Phone
- Click **Add** and **Save**

Under **STENTOFON Stations**:

- Click **Apply**
  - This will reboot all the stations in the Pulse system

7.3.3 Video Settings for ITSV-1

- Select **SIP Configuration** > **Video Settings**



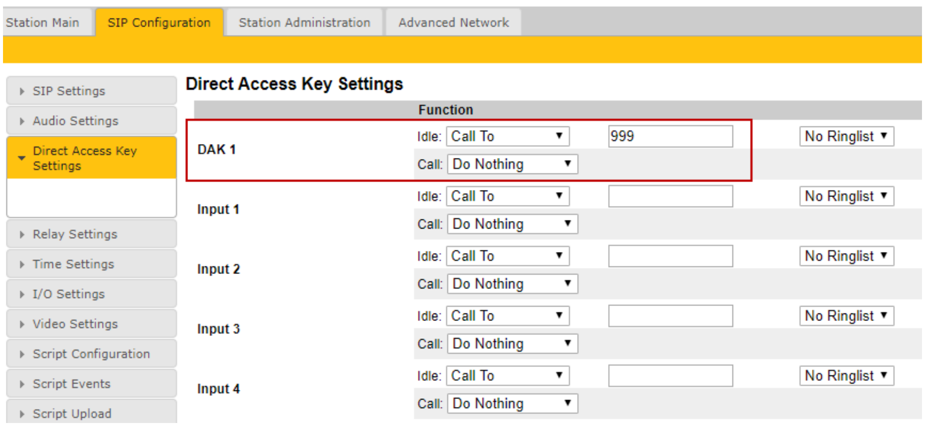
- Enter the values shown above for the parameters

Video Mode: Set to **H264 RTP**
Enable Video: Check box to enable video calls
Resolution: Select **480P**
Frames per second: Select **15fps**
Bitrate: Select **1000 kb/s**
Video setup mode: Select **Default**

- Click **Save**
- Click **Back to config page**

7.3.4 Direct Access Key Settings

- Select **SIP Configuration** > **Direct Access Key Settings**



ⓘ **This feature applies to TCIV-2 and TCIV-3 only**

ⓘ **See *A100K11194 Turbine IP Stations Technical Manual* for the configuration and import of an Address Book for TCIV-6.**

To set up the call key on the Turbine station to call the ITSV-1 Video Phone directly:

- Enter the directory number of the ITSV-1 Video Phone in the **Value** field for **Direct Access Key 1**
  - In this example, the directory number of the ITSV-1 Video Phone is **999**
- Click **Save**

7.3.5 ITSV-1 Phone Settings

- Log into the ITSV-1 phone interface by entering its IP address in a browser on your PC

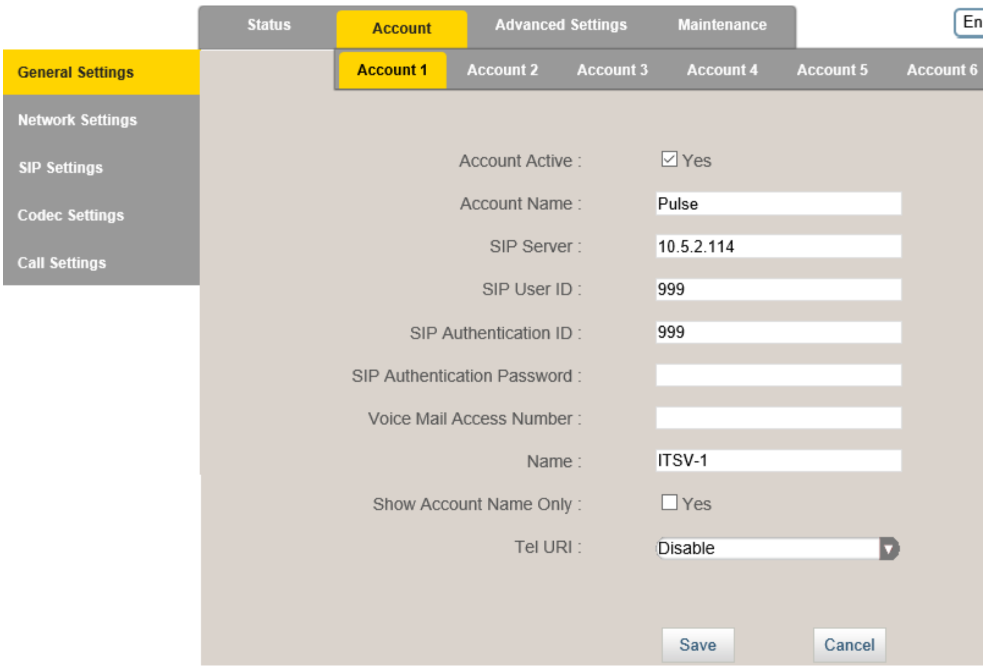
Login Credentials

Username: **admin**

Password: **alphaadmin**

7.3.5.1 ITSV-1 Account Setup

- Select **Account** > **Account 1** > **General Settings**



- Enter the values shown above for the parameters

Account Active: Check **Yes** box

SIP Server: IP address of intercom station set as **Pulse Server**

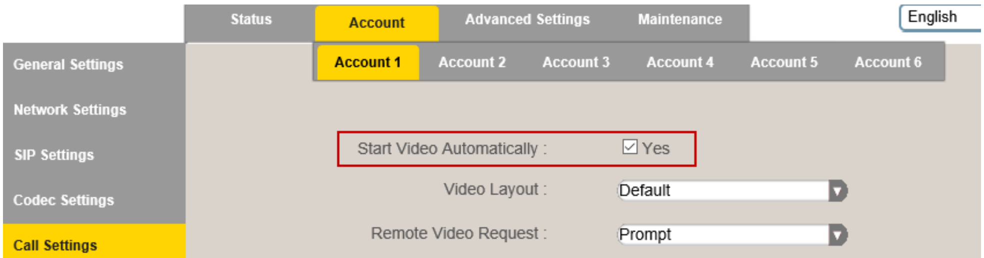
SIP User ID: Directory Number of the **ITSV-1** phone

SIP Authentication ID: Same as SIP User ID

7.3.5.2 ITSV-1 Video Configuration

The video is streamed directly from the TCIV camera to the ITSV-1. The TCIV camera must have a static IP address.

- Select **Account 1** > **Call Settings**



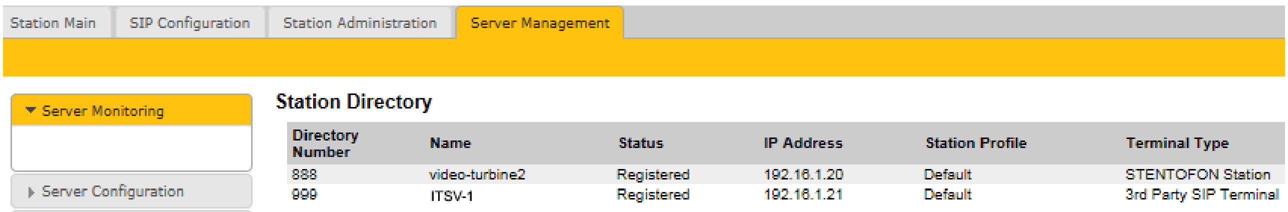
- Click the **Yes** box for **Start Video Automatically**

7.3.6 Verifying Registration of ITSV-1

When the configuration for both the Turbine Video station and the ITSV-1 phone has been done, verify that the they're both registered in the Pulse system.

ⓘ **To verify station registration, you need to log into the station that has been set up as the Pulse Server.**

- Select **Server Management** > **Server Monitoring**



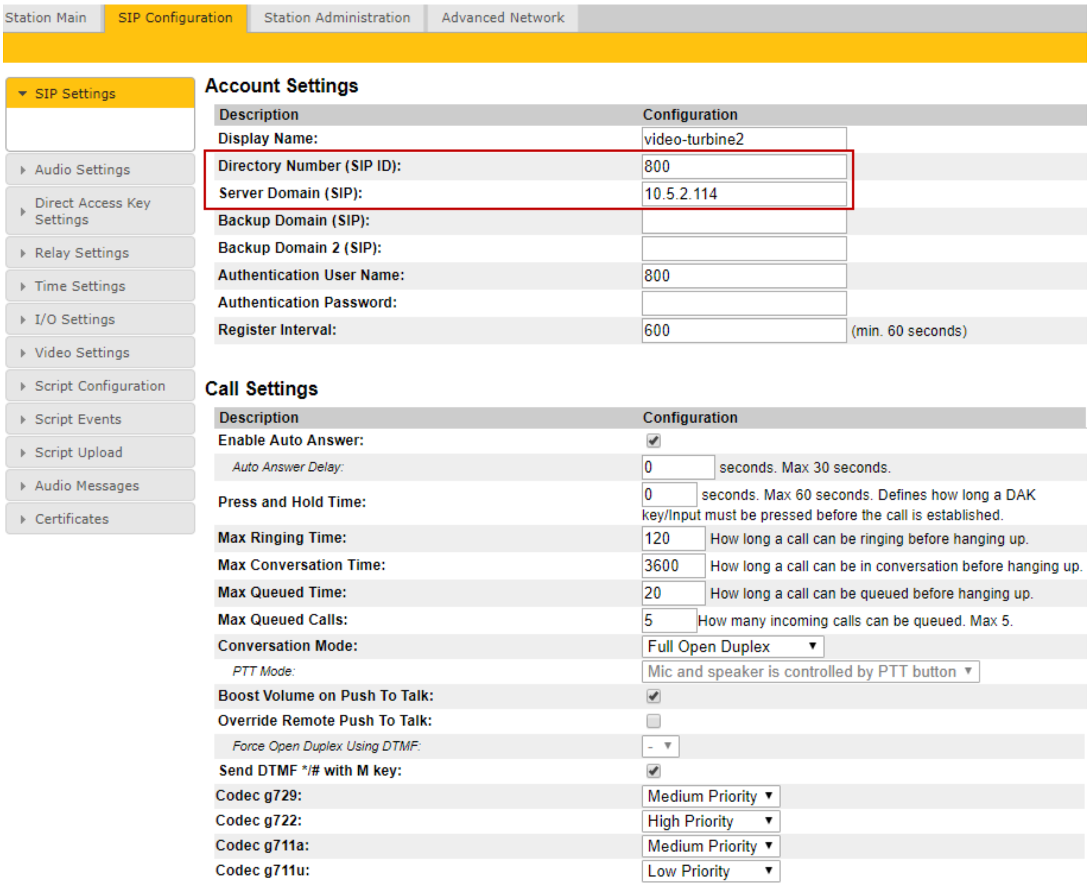
Now you should be able to:

- Call the ITSV-1 phone directly by pressing the call key on the Turbine Video station
- Call the Turbine Video station by dialing its number (e.g. 888) on the ITSV-1 phone

7.4 Pulse Configuration for Bria Softphone

7.4.1 SIP Settings

- Select **SIP Configuration** > **SIP Settings**



<u>**Account Settings**</u>

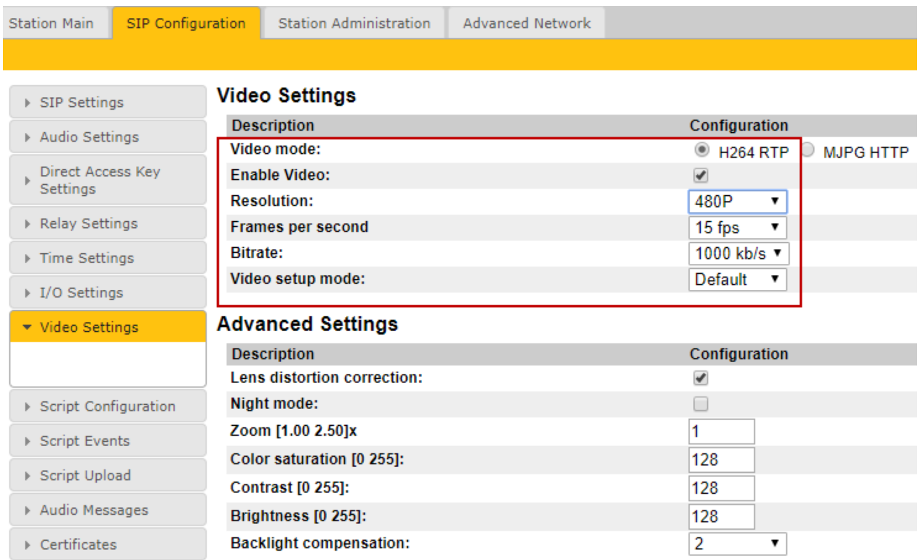
Directory Number (SIP ID): directory number of Turbine Video station

Server Domain (SIP): IP address of station set up as Pulse Server

- Click **Save**
- Click **Back to config page**

7.4.2 Video Settings for Bria Softphone

- Select **SIP Configuration** > **Video Settings**



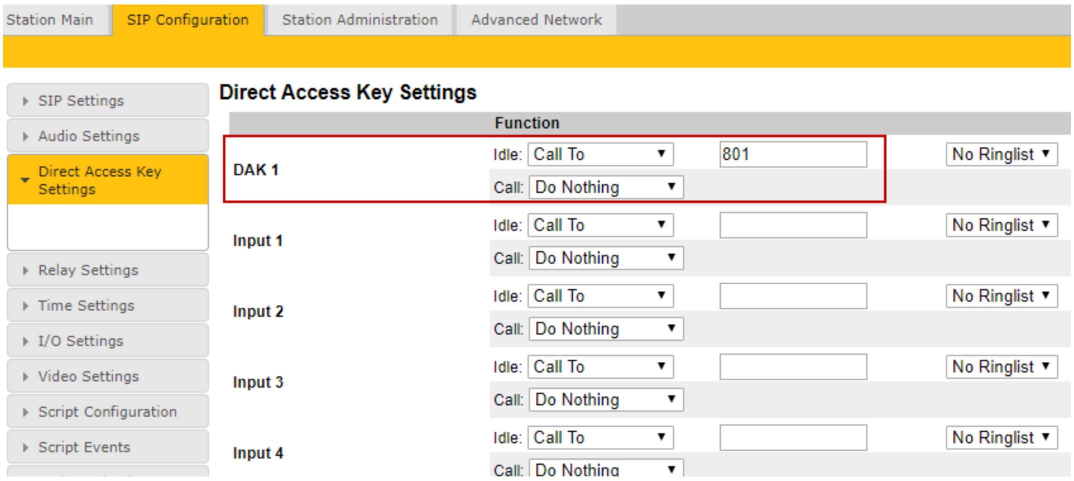
- Enter the values shown above for the parameters

Video Mode: Set to **H264 RTP**
Enable Video: Check box to enable video calls
Resolution: Select **480P**
Frames per second: Select **15fps**
Bitrate: Select **1000 kb/s**
Video setup mode: Select **Default**
Video Mode: Set to **H.264 RTP**

- Click **Save**
- Click **Back to config page**

7.4.3 Direct Access Key Settings

- Select **SIP Configuration** > **Direct Access Key Settings**



ⓘ **This feature applies to TCIV-2 and TCIV-3 only**

ⓘ **See Turbine Configuration Manual for the configuration and import of an Address Book for TCIV-6.**

To set up the call key on the Turbine station to call the Bria softphone directly:

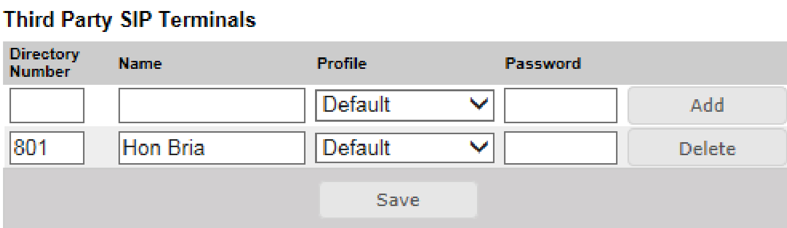
- Enter the directory number of the Bria softphone in the **Value** field for **Direct Access Key 1**
  - In this example, the directory number of the Bria softphone is **801**
- Click **Save**

7.4.4 Third-Party SIP Terminals

ⓘ **To configure third-party SIP terminals, you need to log into the station that has been set up as the Pulse Server.**

- Select **Server Management** > **Server Configuration** > **Directory Settings**

Under **Third Party SIP Terminals**:



- Enter the **Directory Number** and **Name** of the Bria softphone
- Click **Add** and **Save**

Under **STENTOFON Stations**:

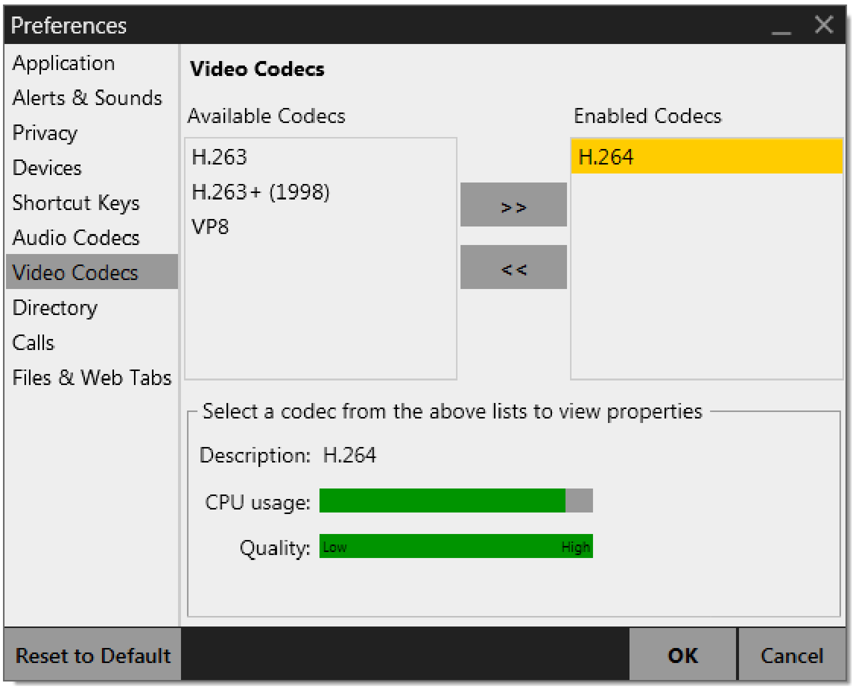
- Click **Apply**
  - This will reboot all the stations in the Pulse system

7.4.5 Bria Softphone Configuration

- Start the Bria softphone application on your PC

Video Codecs

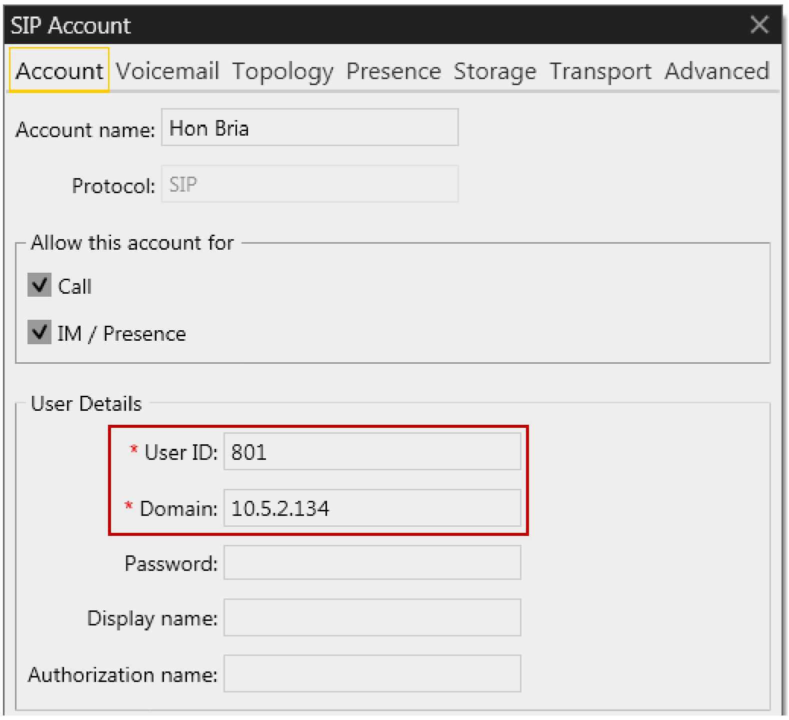
- Select **Softphone** > **Preferences** > **Video Codecs**



- Enable codec **H.264**

Account Settings

- Select **Softphone** > **Account Settings**



User Details

User ID: Directory number of Bria softphone

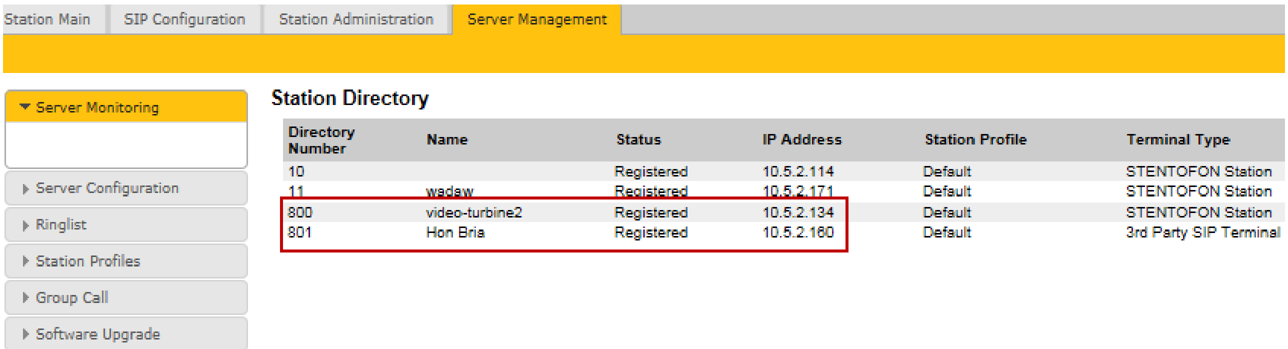
Domain: IP address of intercom station set as Pulse Server

7.4.6 Verifying Registration of Bria Softphone

When the configuration for both the Turbine Video station and the Bria softphone has been done, verify that they're both registered in the Pulse system.

ⓘ **To verify station registration, you need to log into the station that has been set up as the Pulse Server.**

- Select **Server Management** > **Server Monitoring**



Now you should be able to:

- Call the Bria softphone directly by pressing the call key on the Turbine Video station
- Call the Turbine Video station by dialing its number (e.g. 800) on the Bria softphone

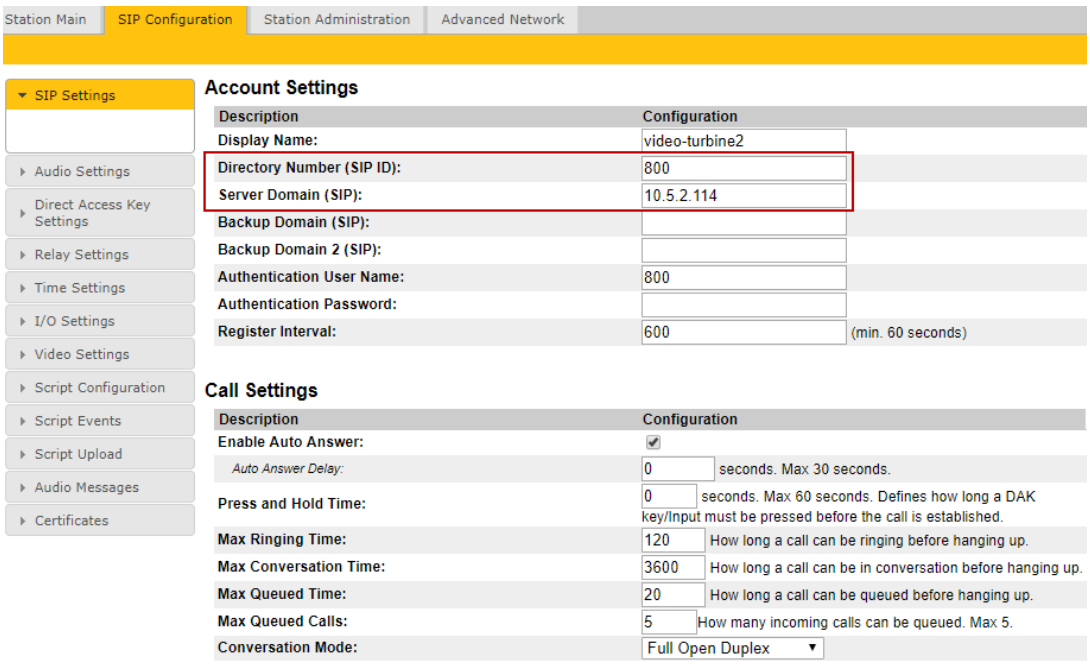
To stream the video, you have to activate the video display on the Bria softphone.

7.5 Pulse Configuration for Snom Video Phone

- Snom Video Phone models: Snom 760 / Snom 821

7.5.1 SIP Settings

- Select **SIP Configuration** > **SIP Settings**



Account Settings

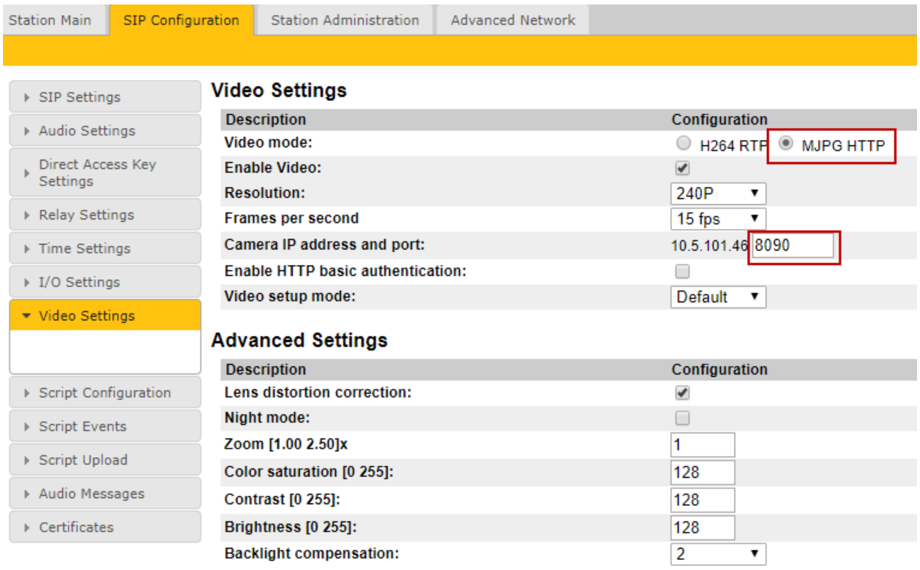
Directory Number (SIP ID): directory number of Turbine Video station

Server Domain (SIP): IP address of station set up as Pulse Server

- Click **Save**
- Click **Back to config page**

7.5.2 Video Settings for Snom Phone

- Select **SIP Configuration** > **Video Settings**



- Enter the values shown above for the parameters

Video Mode: Set to **MJPG HTTP**

Enable Video: Check box to enable video calls

Resolution: Select **240P**

Frames per second: Select **15fps**

Camera IP address and port: Enter the **port number** - default is **8090**

Video setup mode: Select **Default**

Camera IP address and port: Enter the **port number** - default is **8090**

ⓘ **The video camera and the Turbine station have the same IP address.**

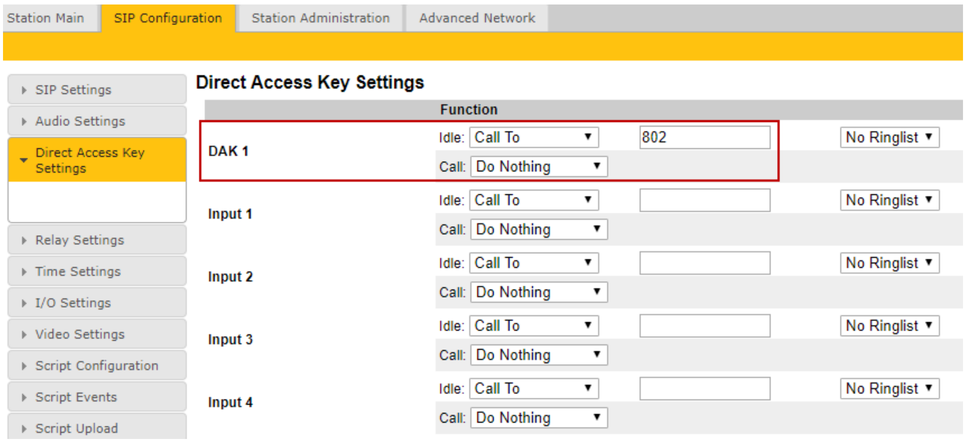
- The video stream from the camera can be viewed by entering the IP address and port number in a web browser, e.g. **10.5.101.46:8090**

ⓘ The same **IP address** and **port number** set here must be entered into the settings for the Snom Phone described in section *"7.5.5 Snom Phone Settings"*.

- Click **Save**
- Click **Back to config page**

7.5.3 Direct Access Key Settings

- Select **SIP Configuration** > **Direct Access Key Settings**



ⓘ **This feature applies to TCIV-2 and TCIV-3 only**

ⓘ **See Turbine Configuration Manual for the configuration and import of an Address Book for TCIV-6.**

To set up the call key on the Turbine station to call the Snom Video Phone directly:

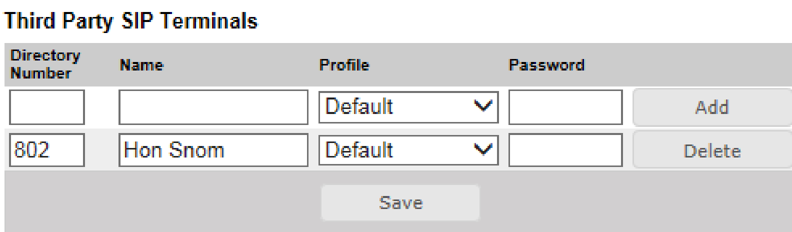
- Enter the directory number of the Snom Video Phone in the **Value** field for **Direct Access Key 1**
  - In this example, the directory number of the Snom Video Phone is 802
- Click **Save**

7.5.4 Third Party SIP Terminals

ⓘ **To configure third-party SIP terminals, you need to log into the station that has been set up as the Pulse Server.**

- Select **Server Management** > **Server Configuration** > **Directory Settings**

Under **Third Party SIP Terminals**:



- Enter the **Directory Number** and **Name** of the Snom Video Phone
- Click **Add** and **Save**

Under **STENTOFON Stations**:

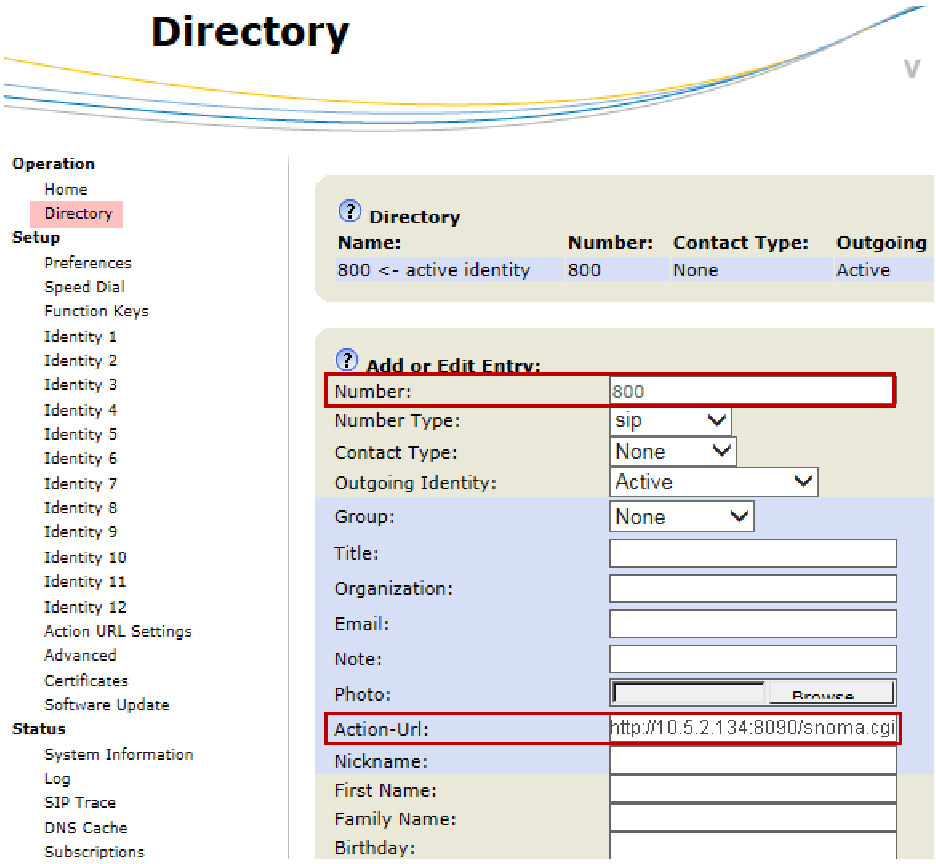
- Click **Apply**
  - This will reboot all the stations in the Pulse system

7.5.5 Snom Phone Settings

- Log into the Snom phone interface by entering its IP address in a browser on your PC

Directory Setup

- Select **Operation** > **Directory**



- Enter the values shown above for the parameters

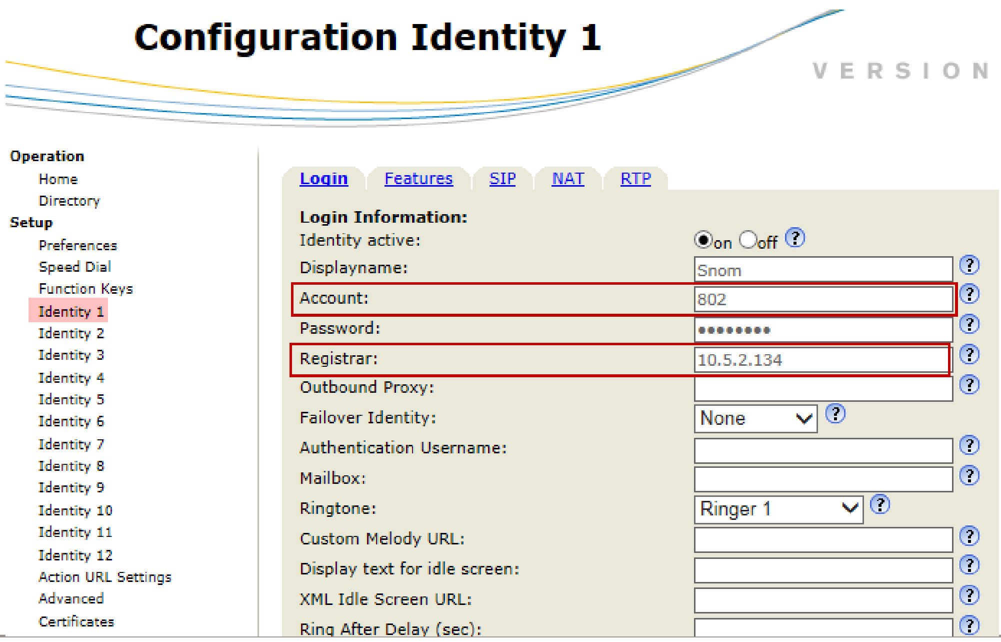
Number: Directory number of the Turbine Video station

Action-Url: http://<IP address of Turbine Video station>:<port no.>/snoma.cgi

- in this example: **http://10.5.2.134:8090/snoma.cgi**

Configuration Identity

- Select **Setup** > **Identity 1** > **Login**



- Enter the values shown above for the parameters

Account: Directory number of the Snom phone, e.g. 802

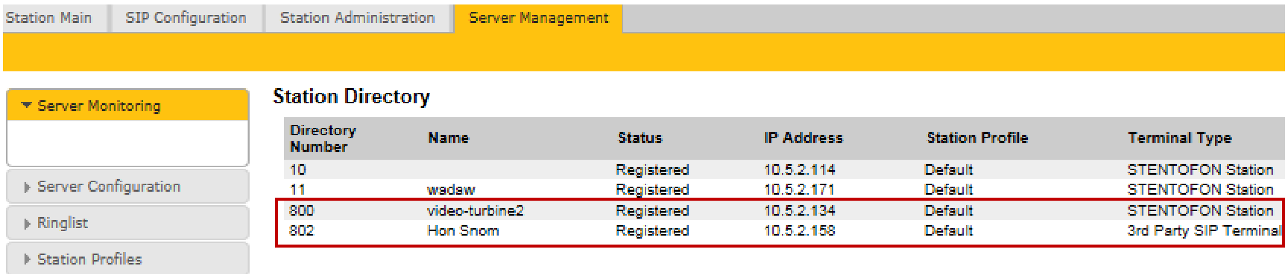
Registrar: IP address of intercom station set as Pulse Server, e.g. 10.5.2.134

7.5.6 Verifying Registration of Snom Video Phone

When the configuration for both the Turbine Video station and the Bria softphone has been done, verify that the they're both registered in the Pulse system.

ⓘ **To verify station registration, you need to log into the station that has been set up as the Pulse Server.**

- Select **Server Management** > **Server Monitoring**



Now you should be able to:

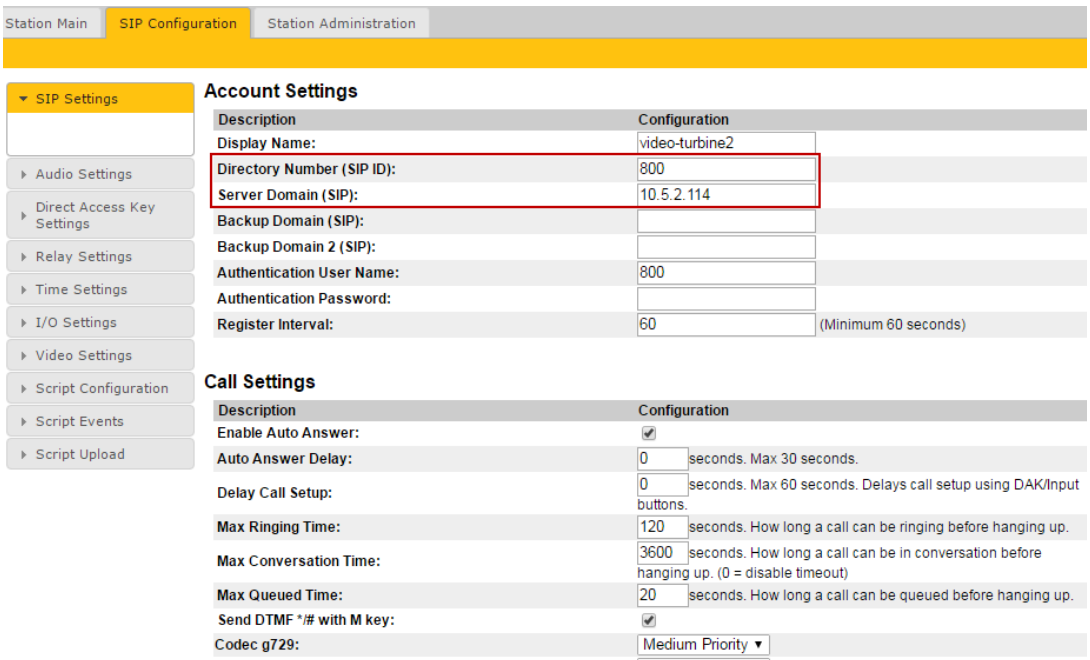
- Call the Snom phone directly by pressing the call key on the Turbine Video station
- Call the Turbine Video station by dialing its number (e.g. 800) on the Snom phone

7.6 Pulse Configuration for VS Desktop Video Display Station

- Vingtor-Stentofon IP Desktop Video Station - item no. 1408001635

7.6.1 SIP Settings

- Select **SIP Configuration** > **SIP Settings**



<u>**Account Settings**</u>

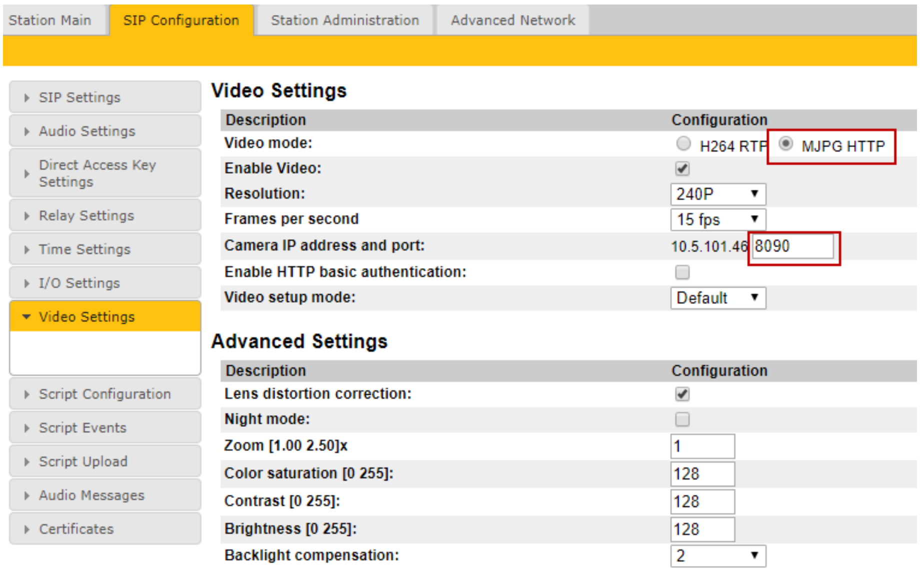
Directory Number (SIP ID): directory number of Turbine Video station

Server Domain (SIP): IP address of station set up as Pulse Server

- Click **Save**
- Click **Back to config page**

7.6.2 Video Settings for Desktop Video Display Station

- Select **SIP Configuration** > **Video Settings**



- Enter the values shown above for the parameters

Video Mode: Set to **MJPG HTTP**

Enable Video: Check box to enable video calls

Resolution: Select **240P**

Frames per second: Select **15fps**

Camera IP address and port: Enter the **port number** - default is **8090**

Video setup mode: Select **Default**

Camera IP address and port: Enter the **port number** - default is **8090**

ⓘ **The video camera and the Turbine station have the same IP address.**

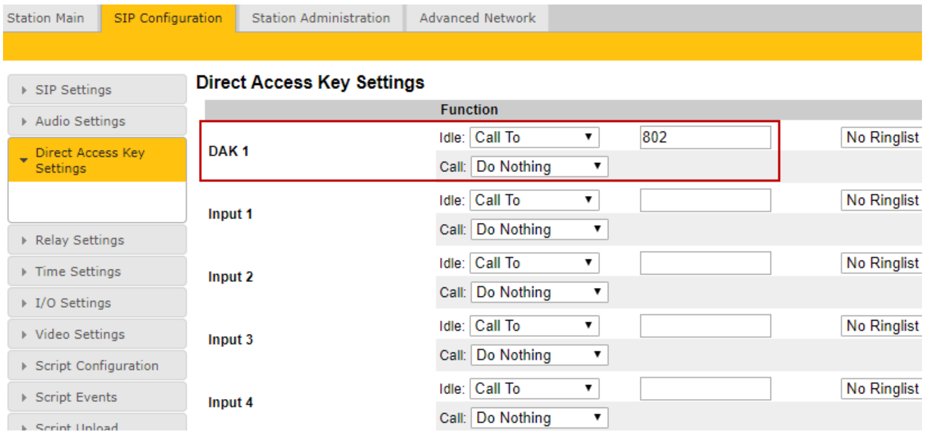
- The video stream from the camera can be viewed by entering the IP address and port number in a web browser, e.g. **10.5.101.46:8090**

ⓘ The same **IP address** (e.g. **10.5.101.46**) and **port number** (e.g. **8090**) set here must be entered into the settings for the Desktop Video Display Station described in section *"7.6.4 Desktop Video Display Station Settings"*.

- Click **Save**
- Click **Back to config page**

7.6.3 Direct Access Key Settings

- Select **SIP Configuration** > **Direct Access Key Settings**



ⓘ **This feature applies to TCIV-2 and TCIV-3 only**

ⓘ **See Turbine Configuration Manual for the configuration and import of an Address Book for TCIV-6.**

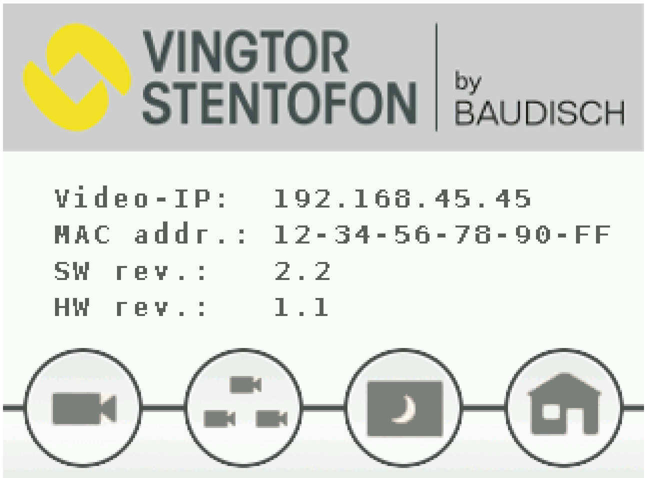
To set up the call key on the Turbine station to call the Desktop Video Display Station directly:

- Enter the directory number of the Desktop Video Display Station in the **Value** field for **Direct Access Key 1**
  - In this example, the directory number of the Desktop Video Display Station is **802**
- Click **Save**

7.6.4 Desktop Video Display Station Settings

The camera of the Turbine Video station has to be set in the video touchscreen of the station. This is done by logging into the video touchscreen of the desktop station interface.

- Tapping anywhere on the LCD touchscreen will show the IP address of the video display part.

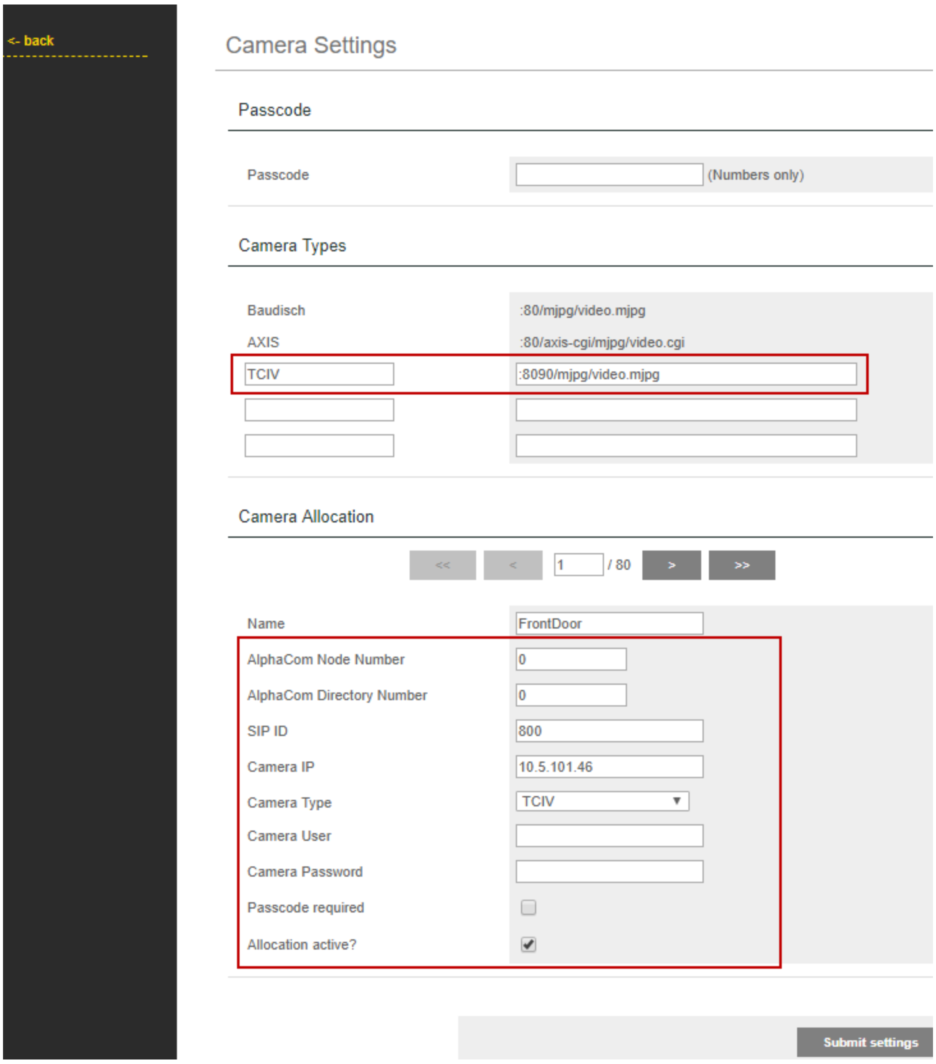


- Enter the **Video-IP** address as shown above (e.g. 192.168.45.45) in a web browser to log into the video part of the desktop station.

To log into the video part of the station:

1. Enter the default Username: **admin**
2. Enter the default password: **alphaadmin**

- Click **Cameras**



- Enter values for Camera Types and Camera Allocation as shown

Camera Types

- Define Camera Type for Turbine Video station TCIV by entering URL **:8090/mjpg/video.mjpg**

ⓘ **'8090' is the default port number** for the camera set in section *"7.6.2 Video Settings for Desktop Video Display Station"*.

Camera Allocation

AlphaCom Node Number : **0** (Not in use for Pulse system)

AlphaCom Directory Number : **0** (Not in use for Pulse system)
SIP ID : **Directory number of TCIV as specified in section 7.6.1** (e.g. 800)
Camera IP : **IP address of TCIV** (e.g. 10.5.101.46)

Camera Type : **TCIV**

Allocation active? : **Check the box to enable video streaming from the camera**

- Click **Submit settings**

8 Station Indication LEDs

8.1 LEDs on Front Plate

<u>**Status LEDs**</u>

- **Bell icon** lights **yellow** when a call is placed and ringing
- **Talk icon** lights **green** when a call is active and in conversation
- **Door icon** lights **red** when the door is unlocked or relay is active

<u>**Talk Icon: Flashing at 1 second intervals**</u>

- Station has no connection to the AlphaCom server/exchange.
  Possible reasons:
- No connection to Ethernet
- Wrong AlphaCom XE IP address configured
- Invalid IP address
- No gateway or wrong gateway to the AlphaCom server/exchange

<u>**Talk Icon: Flashing at 5 second intervals**</u>

- Station connected but NOT registered in the AlphaCom server/exchange.
  Reason:
- Station has not been programmed in AlphaPro

9 Restoring Factory Defaults

A Turbine IP Station may have to be reset to its original factory default settings if, for instance, the password to the station web interface is forgotten. The defaults can either be set to Activated DHCP or Static IP.

9.1 Reset to Factory Default Settings with Activated DHCP

To reset:

1. While **pressing any button**, power up the station by connecting to a PoE switch.
2. Hold the button until the station audio starts counting, and release the button on **count 1**.
3. Press and hold the button on **count 5** and release on **count 0**.
   - if there is no 0 count, the procedure has failed and you have to start again
4. Press the **call button** to make the station speak its IP address.

Factory default values

Station IP address: (determined by DHCP server)

Username: **admin**

Password: **alphaadmin**

9.2 Reset to Factory Default Settings with Static IP

To reset:

1. While **pressing any button**, power up the station by connecting to a PoE switch.
2. Hold the button until the station audio starts counting, and release the button on **count 1**.
3. Press and hold the button on **count 3** and release on **count 0**.
   - if there is no 0 count, the procedure has failed and you have to start again
4. Press the **call button** to make the station speak its IP address.

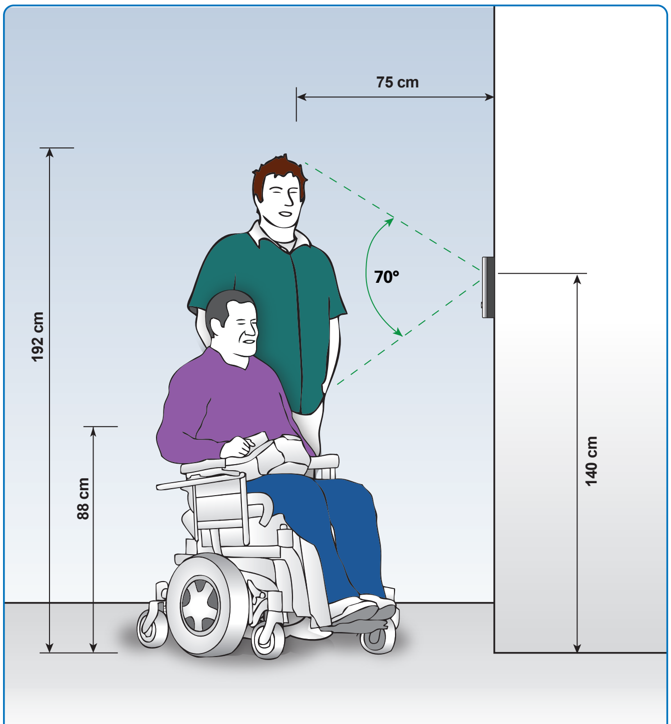
Factory default values

Station IP address: **169.254.1.100**

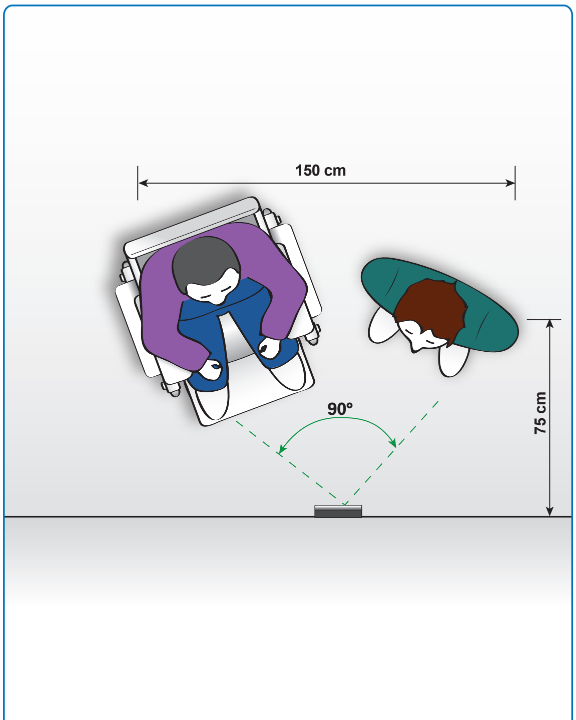
Username: **admin**

Password: **alphaadmin**

10 Camera Field of View



Vertical Angle



Horizontal Angle

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The WEEE Directive does not legislate that Zenitel, as a 'producer', shall collect 'end of life' WEEE.

This 'end of life' WEEE should be recycled appropriately by the owner who should use proper treatment and recycling measures. It should not be disposed to landfill.

Many electrical items that we throw away can be repaired or recycled. Recycling items helps to save our natural finite resources and also reduces the environmental and health risks associated with sending electrical goods to landfill.

Under the WEEE Regulations, all new electrical goods should now be marked with the crossed-out wheeled bin symbol shown.

Goods are marked with this symbol to show that they were produced after 13th August 2005, and should be disposed of separately from normal household waste so that they can be recycled.

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