



## IP Desktop Video Station with Touchscreen Display

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# 1 General Information

## 1.1 Document Scope

This document describes the configuration of the Vingtor-Stentofon IP Desktop Video station with a 3.5" LCD touchscreen display.

Product	Item Number
IP Desktop Video Station with Touchscreen Display & Handset	1408001635

## 1.2 Document Log

Version	Date	Author	Status/Comments
1.0	16.12.2013	Sc	Final draft
1.3	08.04.2014	PI	Update IP Desktop Video Station user interface
1.4	04.09.2014	PI	Update for Fw 1.10
1.5	17.12.2014	Eb	MTBF and response time of display added
1.6	09.05.2016	PI	Update
2.0	22.06.2016	HKL	Revised with Turbine Video

## 1.3 Firmware Versions

Date	SubstationKit	VideoKit	Description / Function Expansion
05.07.2013	02.02.3.1	V1.3	First Prototype release
12.12.2013	02.04.1.12	V1.5	First Series release
04.05.2016	02.05.1.7	V2.2	Current version

## 1.4 Hardware Versions

Date	HW	Expansion
22.02.2013	0.1 A	First Prototypes
11.06.2013	1.0 B	Pre - Series
01.08.2013	1.1 C	Series

## 1.5 Related Documentation

Document no.	Title
A100K10788	IP Master Installation & Configuration Manual
A100K11559	Turbine Video Configuration Manual
A100K11377	IP Video Station Configuration Manual

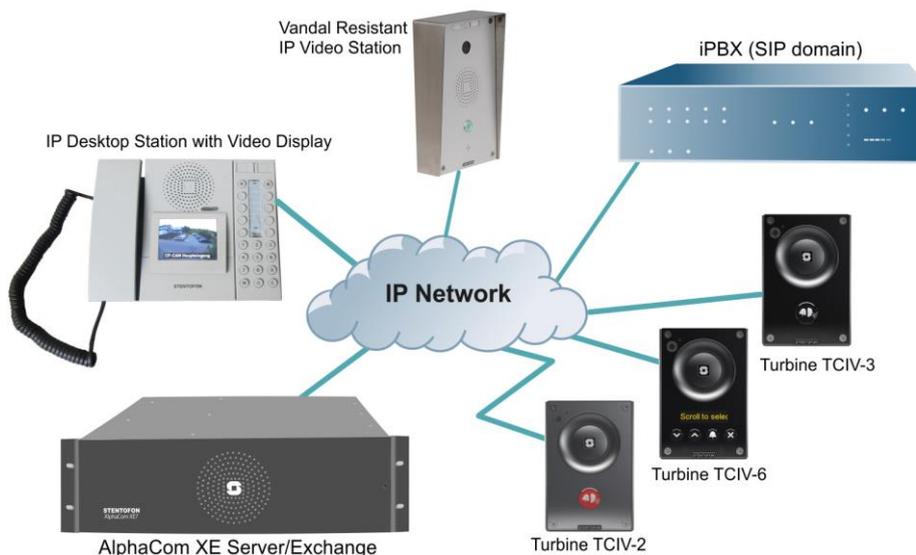
## 2 Product Description

### 2.1 Overview

The Vingtor-Stentofon IP Desktop Video station is an intercom unit designed to be used in a control room or similar type of environment. The station comes with a 3.5" LCD touchscreen display and the capability of streaming video from an IP video camera using AlphaCom, Pulse, or SIP station modes.

The desktop station can stream video from the following Vingtor-Stentofon Video stations:

Product Name	Item Number
Turbine Compact TCIV-2 IP Video Station	1008115020
Turbine Compact TCIV-3 IP Video Station	1008115030
Turbine Compact TCIV-6 IP Video Station	1008115060
Vandal Resistant IP Video Station	1401110100
Vandal Resistant IP Video Station	1401110200



It features a large high-contrast touchscreen with backlight which allows critical information about connections to be shown clearly. The handset allows the user to switch from private to open conversation in hands-free mode. Four touchscreen navigation keys and ten Direct Access Keys (DAK) provide single-touch access to stations, group calls, audio monitoring, public address zones, radio channels and/or the opening of doors and gates.

The station connects directly to the IP network, making it easy to deploy anywhere at any distance. The built-in web server allows monitoring, configuration and software updates over the IP network, hence maintaining a remotely located station is almost effortless. Designed for CCoIP®, the station offers a set of critical communication features such as group call, call priority, and speaker volume override. This enables the delivery of instant, efficient, and secure voice and data services in an IP environment.

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## 2.2 Features

### General

- Designed to deliver CCoIP® – Critical Communication over IP
- Call queue according to priority and time of call, 256 priority levels
- Ten DAKs provide single-touch access to stations, group calls, audio monitoring, public address zones, radio channels and phone lines.
- Comes with handset for private conversations
- Superb audio quality – high bandwidth codec, active noise cancellation, acoustic echo cancellation and high output power amplifier
- Remote software upgrade, configuration and monitoring

### Video Touchscreen Hardware

- 3.5" TFT Touchscreen (embedded video, CCTV matrix not required)
- High Contrast touchscreen with backlight for excellent readability
- 2-Level screen saver: High/Low lighted, Touchscreen off

### Video Touchscreen Firmware (VideoKit)

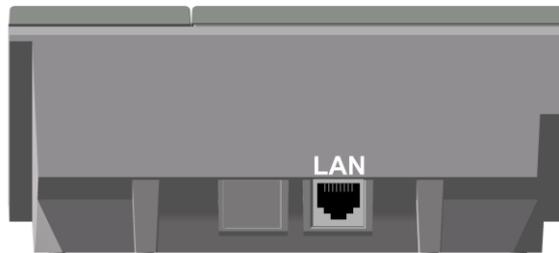
- Internal communication with IP desktop station via DIP protocol
- 1:1 Text display of the original desktop station LCD.
- No special programming in AlphaCom required (special event handler scripts not required)
- Up to 80 IP cameras assignable to internal camera database in the video kit accessible by web interface.
- One camera is assignable to more than one station
- One door station could be assigned to more IP cameras, switching through videos
- Manual access to 80 IP cameras by touch screen to show videos at any time
- Video display for all call events:
  - During incoming call
  - During outgoing call
  - During conversation
- Text overlay with camera name or IP address, configurable position, color and font while video is active
- 4 DAK key buttons on the touch screen as replacement for 4 DAK keys on IP Desk Station

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## 3 Operation & Configuration

### 3.1 Connecting the IP Desktop Video Station

There is a RJ45 port at the rear of the IP Desktop Video station for connecting via a network switch to the LAN network.



To connect the IP Desktop Video station to the network:

- Connect the LAN port of the IP Desktop Video station to a PoE network switch using a network cable.

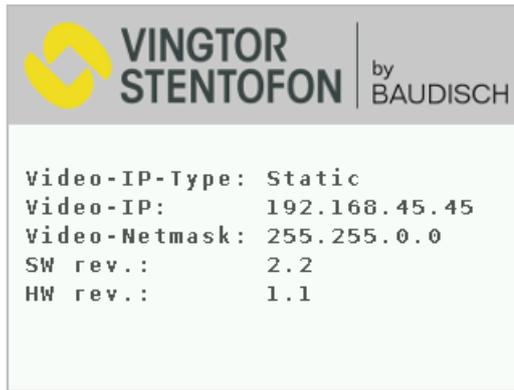


### 3.2 Video Touchscreen Interface

#### 3.2.1 General Workflow

During startup the 3.5" LCD touchscreen displays the following splash screen information:

- The IP connection type (DHCP, DHCP with fallback or Static)
- The IP address of the video screen
- The Netmask of the video screen
- The Software version of the video screen
- The Hardware version of the video screen



Splash Screen

After startup the home screen is displayed.



Home Screen

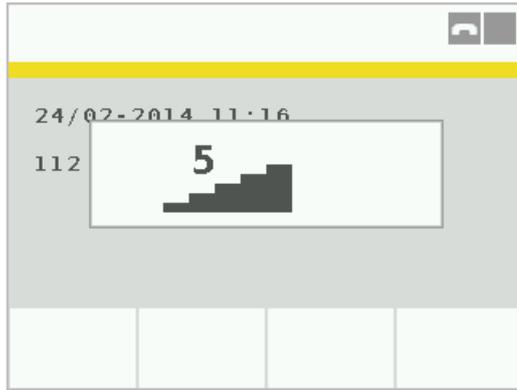
The bar color on the display indicates the connection status:

- **Red** indicates that no network connection can be established. If an Ethernet cable is connected, the video screen should connect automatically during startup.
- **Yellow-Red flashing** indicates that no connection to the server can be established. If the server and the video screen are configured correctly, the connection will be established automatically during startup. (This may take some time.)
- **Yellow** indicates that the video screen is connected to the server.
- **Green** indicates an active, incoming or outgoing call.

The three icons in the upper-right corner indicate:

- **Private Mode:** The leftmost icon indicates that the station is in private mode. If the station is not in private mode this icon is not visible.
- **Handset State:** The icon in the middle indicates whether the handset is on-hook or off-hook.
- **Volume:** The rightmost icon indicates the current volume.

The volume of the ringtone can be adjusted by pressing the volume key located above the touchscreen.



At the bottom of the touchscreen, there are four menu selection buttons. The menu options available are dependent on how these buttons are configured on the AlphaCom server.

- Tap anywhere on the screen and the Option Screen will be displayed for 10 seconds.



Option Screen

On the Option Screen there are four touch icons for executing the following functions:



**Camera Select**

The IP Desktop Video Station can allocate up to 80 cameras. They are listed in the Camera Select screen with their labels, e.g. Main Entry, etc.



Camera Selection Screen

- 
- Tap a label on the screen to show the camera stream for 60 seconds.
  - Tap the screen during this 60 seconds to stop the stream and revert back to the Camera Select screen.
  - There are three navigation buttons on the right of the screen for scrolling up/down or returning to the Option Screen

If access to the cameras have been configured to require passcode authentication (see section 3.3.4), the following passcode entry screen will be displayed:

* * * *				
1	2	3	4	5
6	7	8	9	0
DEL	OK	ESC		

Passcode Entry Screen



#### **Enable/Disable Camera Switching**

If more than one camera has been allocated to a remote station the touchscreen will switch between the allocated cameras every 5 seconds. This feature can be enabled/disabled here.



#### **Enable/Disable Screensaver to avoid total switch-off**

If this function is enabled, the screensaver does not switch off the display after a period of inactivity. Only the backlight is dimmed.



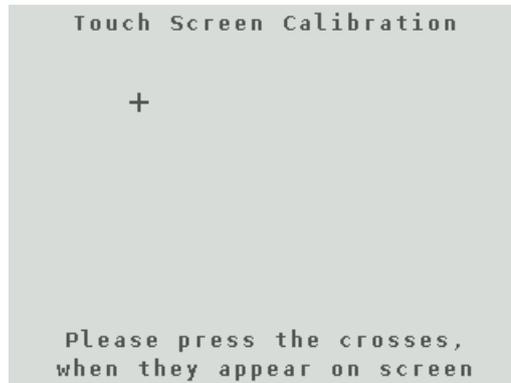
#### **Back to Home Screen**

Tap this icon to revert back to the home screen.

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### 3.2.2 Touchscreen Calibration

The touchscreen calibration display is activated by pressing and holding the screen during startup when the splash screen is displayed or via the web interface under menu option **System** (see section 3.3.6.).



Touch Calibration Screen

When the calibration screen is shown, tap the displayed cross and another cross will be displayed. After tapping the second cross, the calibration process will be completed.

### 3.2.3 Factory Reset

A factory reset via touchscreen can be initiated by pressing and holding the options screen until a confirmation dialog is displayed.



Factory Reset Confirmation Screen

- Tap the **checkmark icon** to initiate a factory reset.
- Tap the **cross-mark icon** to abort the factory reset.

## 3.3 Video Screen Web Interface

### 3.3.1 Login Procedure

The video screen on the station has an integrated web interface which allows users to log in via a standard web browser. In order to log into the video screen for the first time with its default settings, proceed as follows:

1. Connect your PC to the network switch
2. Connect the LAN port of the IP Desktop to the network switch
3. Make sure your PC is set in the same IP address range as the video screen on the station. The default IP address range is **169.254.1.xxx**. Assign your PC an IP address (e.g. 169.254.1.90 with net mask 255.255.255.0).
  - ① **Note that the video screen has the default IP address 169.254.1.101 on delivery.**
4. Open a web browser on your PC
5. Enter the default IP address **169.254.1.101** in the address bar.
6. Enter the username: **admin**
7. Enter the password: **alphaadmin**



The available menus options and relevant parameters are described in the following sections.

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### 3.3.2 User Settings

Here you can change the username and password for access to the web interface.

- Click **User**



The screenshot displays the 'User Settings' page of the VINGTOR STENTOFON IP Desktop Video by BAUDISCH interface. The page has a dark header with the logo and product name. A dark sidebar on the left contains a '< back' link. The main content area is titled 'User Settings' and contains a form with the following fields:

- User**: A section header for the user configuration.
- User name**: A text input field containing the value 'admin'.
- Password**: A password input field.
- Repeat password**: A second password input field for confirmation.

A 'Send settings' button is located at the bottom right of the form area.

**User name** : Enter a user name

**Password** : Enter a password

**Repeat password** : Type in the password again

- Click **Send settings**
- Click **Submit settings** to apply the settings.

### 3.3.3 User Interface

Here you can change the behavior of the user interface on the LCD screen.

- Click **User Interface**

[← back](#)

## User Interface

### Screensaver

Time until activation  seconds

Time until shutdown  seconds

Maximum brightness  %

Minimum brightness  %

### Text overlay during video

#### Background

Coordinate x  [0..288]

Coordinate y  [0..208]

Width  [32..320]

Height  [32..120]

Color  (Hex: RRGGBB)

#### Text

(Coordinates relative to background)

Coordinate x  [0..290]

Coordinate y  [0..90]

Line spacing  Pixel

Font

Color  (Hex: RRGGBB)

#### Text

(Coordinates relative to background)

Coordinate x  [0..290]

Coordinate y  [0..90]

Line spacing  Pixel

Font

Color  (Hex: RRGGBB)

Hide after  seconds

Text on incoming call

Text on connected call

Submit settings

---

## **Screensaver**

**Time until activation** : Time until the touchscreen backlight is dimmed down

**Time until shutdown** : Time from the touchscreen backlight is dimmed down until the touchscreen is switched off

**Maximum brightness** : Level of the maximum brightness of the touchscreen backlight in normal operation (before the backlight is dimmed down)

**Minimum brightness** : Level of the minimum brightness of the touchscreen backlight after it is dimmed down

## **Text overlay during video**

### **Background**

**Coordinate x** : Starting position on the x axis for the Background image

**Coordinate y** : Starting position on the y axis for the Background image

**Width** : Width of the background image

**Height** : Height of the background image

**Color** : background color

### **Text**

**Coordinate x** : Start position on the x axis for the text overlay (relative to Background image)

**Coordinate y** : Start position on the y axis for the text overlay (relative to Background image)

**Line spacing** : The vertical distance between two lines

**Font** : Size of the font

**Color** : Color of the text

**Hide after** : Time until the text overlay fades out

**Text on incoming call** : Text displayed for incoming calls

**Text on connected call** : Text displayed for connected calls

- Click **Submit settings** to apply the settings.

### 3.3.4 Camera Settings

Here you can configure the camera settings for up to 80 cameras.

- Click **Cameras**



IP Desktop Video  
by  
BAUDISCH

[< back](#)

### Camera Settings

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Passcode

Passcode  (Numbers only)

---

Camera Types

Baudisch	:80/mjpg/video.mjpg
AXIS	:80/axis-cgi/mjpg/video.cgi
TCIV <input type="text"/>	<input type="text" value=":8090/mjpg/video.mjpg"/>
<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>

---

Camera Allocation

<< < 1 / 80 > >>

Name	<input type="text" value="FrontDoor"/>
AlphaCom Node Number	<input type="text" value="3"/>
AlphaCom Directory Number	<input type="text" value="2222"/>
SIP ID	<input type="text"/>
Camera IP	<input type="text" value="10.5.17.189"/>
Camera Type	TCIV ▼
Camera User	<input type="text"/>
Camera Password	<input type="text"/>
Passcode required	<input type="checkbox"/>
Allocation active?	<input checked="" type="checkbox"/>

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## Passcode

**Passcode:** Enter an up to 10 digit long numeric passcode to restrict access to the cameras via the Camera Select screen on the station.

## Camera Types

- ① **Camera Types *Baudisch* and *AXIS* are already predefined.**

**Name:** The input fields on the left panel are for the camera names (e.g. *TCIV* for Turbine Video). The name entered here will be added to the **Camera Type** select box in the **Camera Allocation** section.

**Path:** The input fields on the right panel are for the path to the MJPG stream of the camera in the form of [:<Port>][Path].

For TCIV-x Turbine Video stations the path is **:8090/mjpg/video.mjpg**

## Camera Allocation

**Name :** Enter the name for the allocated camera (optional). This camera name is displayed in the text overlay.

**AlphaCom Node Number :** Enter the Node Number of the Alphacom Server on which the IP Desktop is registered (AlphaCom mode). Enter the value '0' for both Pulse and SIP mode.

**AlphaCom Directory Number :** Enter the Directory Number of the IP station with the video camera (AlphaCom mode). Enter the value '0' for both Pulse and SIP mode.

**SIP ID :** Enter the Directory Number of the intercom unit which the camera is associated with. (SIP/Pulse mode)

**Camera IP :** Enter the IP address of the station with the video camera.

**Camera Type :** Select the camera type based on the available camera types from the dropdown box (e.g. *TCIV*, *Baudisch*, *AXIS*).

**Camera User :** Enter the username to access the camera stream (optional).

**Camera Password :** Enter the password to access the camera stream (optional).

**Passcode Required :** Check the box to enable or disable passcode authentication to access this camera via the Camera Select screen on the station.

**Allocation active? :** Check the box to enable or disable the camera. ***This must be enabled to be able to stream video from the camera.***

- Click **Submit settings** to apply the settings

### 3.3.5 Network Settings

Here you can configure the network settings.

- Click **Network**

The screenshot shows the 'Network Settings' interface for the VINGTOR STENTOFON IP Desktop Video by BAUDISCH. The page has a dark header with the logo and product name. Below the header, there is a navigation bar with a '< back' button. The main content area is titled 'Network Settings' and contains a section for 'IP settings'. Under 'IP settings', there is a 'Connection type' section with three radio buttons: 'DHCP', 'DHCP with fallback', and 'Manual'. The 'Manual' option is selected. Below the radio buttons are four input fields: 'IP address' (192.168.45.45), 'Netmask' (255.255.0.0), 'Gateway' (192.168.0.9), and 'DNS' (192.168.0.2). A 'Send settings' button is located at the bottom right of the form.

#### IP settings

##### Connection type

**DHCP** : The IP Desktop Video Station automatically obtains its IP settings from a DHCP server

**DHCP with fallback** : The IP Desktop Video Station automatically obtains its IP settings from a DHCP server. If no DHCP server is available the IP Desktop Video Station falls back to the **IP address 10.10.10.10**.

**Manual** : IP settings are set manually

**IP address** : IP address of the IP Desktop

**Netmask** : Subnet mask of the IP Desktop

**Gateway** : IP address of the router

**DNS** : IP address of the Name Server

- Click **Send settings**

### 3.3.6 System

Here you can calibrate the touchscreen, do a factory reset, update the Desktop Video Station with the latest firmware, etc.

- Click **System**

The screenshot shows the 'System' configuration page for the VINGTOR STENTOFON IP Desktop Video by BAUDISCH. The page is organized into several sections, each with a specific function and a corresponding button:

- Camera Allocation:** Includes 'Download camera allocation list' (Download button) and 'Upload camera allocation list' (Choose File button, No file chosen, Upload button).
- Settings:** Includes 'Download settings' (Download button) and 'Upload settings' (Choose File button, No file chosen, Upload button).
- Calibrate Touch Screen:** Includes 'Calibrate Touch Screen' (Start button).
- Factory Reset:** Includes 'Factory reset' (Reset button).
- Firmware update:** Includes 'Firmware file' (Choose File button, No file chosen, Upload button).

A red warning banner at the bottom of the page reads: **Warning: Firmware update must not be interrupted! The update may take a few minutes.**

#### Camera Allocation

Upload or download the camera allocation list.

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## **Settings**

Upload or Download the settings (including the camera allocation).

## **Calibrate Touch Screen**

Starts the touchscreen calibration.

## **Factory Reset**

Resets the Desktop Video Station to factory settings.

## **Firmware Update**

Updates the firmware.

## **3.4 Updating the Video Screen**

### **3.4.1 Updating the Firmware**

1. Log into the web interface of the video screen
2. Click **System** (see section 3.3.6)
3. Under category **Firmware update** click the **Choose File** button
4. Select the firmware file (The file has the extension **.bin**, e.g. **20160216PL\_v11\_FW\_v21\_StentofonIPDesktopVideo.bin**)
5. Click the **Upload** button
6. When the upload is done the video screen will automatically reboot

Firmware update

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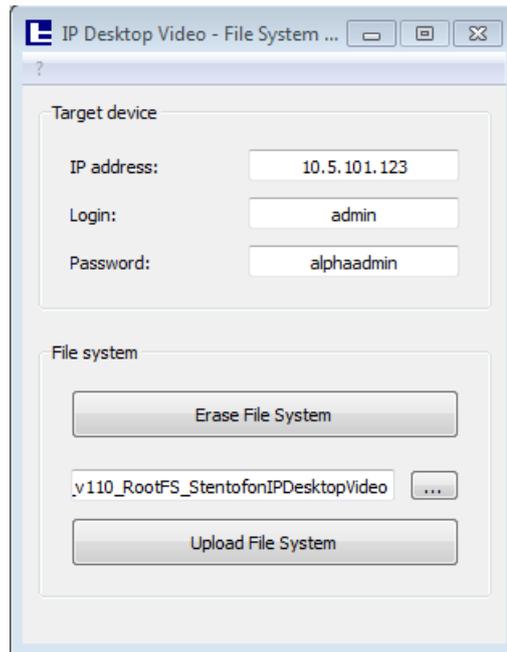
Firmware file  No file chosen

### **3.4.2 Updating the File System (User & Web Interface)**

To update the file system to a newer version, use the PC application **IP Desktop Video –File System Updater** which comes with the software package:

1. Start the **IP Desktop Video –File System Updater** application by executing the file *IPDesktopVideoFSUpdater.exe*
2. Enter the IP address of the video screen to open the login page
3. Enter the username (**admin**) and password (**alphaadmin**)

4. Click on the **...** button and navigate to the folder containing the new file system, e.g. **20160216PL\_FW\_v21\_RootFS\_StentofonIPDesktopVideo**
5. Select the folder of the new file system and click **Ok**
6. Click on the **Erase File System** button and wait for the station to reboot
7. After the reboot, click on **Upload File System** and wait for the process to complete (this may take a few minutes)
8. When the update is completed, the station will reboot with the new file system.



① **Note that this feature is only available with firmware version 1.7 or later.**

## 3.5 IP Desktop Station Configuration

For more detailed information on the configuration of the IP Desktop Station, see the manual *A100K10788 IP Master Stations Installation & Configuration*.

### 3.5.1 Logging into the Web Interface

The IP Desktop has an integrated web interface which allows users to log in via a standard web browser.

In order to login on an IP Desktop for the first time with its default settings, proceed as follows:

1. Connect your PC with the network switch
2. Connect the LAN port of the IP Desktop to the network switch
3. Make sure your PC is set in the same IP address range as the IP Desktop. The default IP address is in the range 169.254.1.xxx. Assign your PC an IP address (e.g. 169.254.1.90, netmask 255.255.255.0).

① **The IP Desktop has the default IP address 169.254.1.100 on delivery.**

4. Open a web browser on your PC
5. Enter the IP address **169.254.1.100** in the address bar



6. Select whether an encoded connection (HTTPS) or a non-encoded connection (HTTP) is to be used
7. Enter username: **admin**
8. Enter password: **alphaadmin**

The **Station Information** will be displayed. The overview shows the IP configuration including the MAC Address as well as the current **Station Status**.

Description	Information
Station IP:	169.254.1.100
Subnet Mask:	255.255.0.0
Default Gateway:	169.254.1.1
DNS Server 1:	
DNS Server 2:	
Hardware Type:	8024
Hardware Version:	2
Software Version:	02.04.1.12
MAC Address:	00:13:cb:00:92:31

Description	Status
Station Mode:	Alphacom
Directory Number:	
Physical Number:	
Display Text:	

## 3.5.2 Station Mode and IP Settings

- Select **Station Main > Main Settings**

The screenshot shows the IP-StationWeb configuration interface. The top navigation bar includes 'Station Main', 'Station Administration', 'Advanced AlphaCom', and 'Advanced Network'. The 'Station Main' tab is active, and the 'Main Settings' sub-tab is selected. The 'Station Mode' section has four radio buttons: 'Use SIP', 'Use AlphaCom' (which is selected), 'Use Pulse', and 'Use Pulse Server'. Below this is the 'Registration Settings' section, which includes 'AlphaCom IP-address' (169.254.1.5) and 'Directory Number' (empty). The 'IP Settings' section has two radio buttons: 'DHCP' (selected) and 'Static IP'. Below this are fields for 'IP-address' (169.254.1.100), 'Subnet-mask' (255.255.0.0), 'Gateway' (169.254.1.1), 'DNS Server 1' (0.0.0.0), 'DNS Server 2' (0.0.0.0), 'Hostname' (zenitel009231), 'Use Last IP On DHCP failure' (checkbox), and 'IGMP Version' (Default). A 'Save' button is at the bottom.

### Station Mode

- Select AlphaCom, SIP or Pulse modes
- **Use AlphaCom** (this mode requires registration settings)

#### Registration Settings

- **AlphaCom IP-address**
  - Enter the IP address of the AlphaCom server in which the IP station is to be registered as a subscriber in the field.
- **Directory Number**
  - Enter the directory number of the station
  - If a directory number is not entered, the station will register with its MAC address.
- **Use SIP**
- **Use Pulse Server**

### IP Settings

- **DHCP** – IP station receives IP settings from a DHCP server
- **Static IP** – IP station uses a static IP address. Enter values for:
  - **IP-address**
  - **Subnet-mask**
  - **Gateway**
  - **DNS Server 1** (option for network administration)
  - **DNS Server 2** (option for network administration)
  - **Hostname** (option for network administration)
- Click **Save** followed by **Apply** to apply the new configuration settings



**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.