Configuration Manual

Turbine Compact IP Video Stations

TCIV-2
TCIV-3
TCIV-6
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

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<td>1008115020</td>
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<td>1008115030</td>
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<td>Tubine Compact IP Video Station - TCIV-6</td>
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Publication Log

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Related Documentation
For further information, refer to the following documentation:

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

All IP Video stations in the Turbine Compact series offer 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

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

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

![Figure 3 External Connectors on IP Station](image)

**Figure 3 External Connectors on IP Station**

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](image)

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:

<table>
<thead>
<tr>
<th>Description</th>
<th>Configuration</th>
</tr>
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<tbody>
<tr>
<td>Video mode:</td>
<td>H.264 RTP</td>
</tr>
<tr>
<td>Enable Video:</td>
<td></td>
</tr>
<tr>
<td>Resolution:</td>
<td></td>
</tr>
<tr>
<td>Frames per second:</td>
<td>15 fps</td>
</tr>
<tr>
<td>Camera IP address and port:</td>
<td>10.5.100.104:8090</td>
</tr>
<tr>
<td>Enable HTTP basic authentication:</td>
<td></td>
</tr>
<tr>
<td>Video setup mode:</td>
<td>Default</td>
</tr>
</tbody>
</table>

**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.

---

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: Enter IP address of TCIV
    - Subnet-mask: Enter subnet mask
    - Gateway: Enter Gateway IP address
    - DNS Server 1: Enter DNS Server 1
    - DNS Server 2: Enter DNS Server 2
    - Hostname: Enter Hostname

- **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

![Video Settings](image)

**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

![Account Setup]
- 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**

![Screenshot of AlphaCom Configuration](image)

**Video Settings**:

- **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**
- **Enable HTTP basic authentication**: Select **Default**

**Advanced Settings**:

- **Lens distortion correction**: Select
- **Night mode**: Select
- **Zoom**: Select
- **Color saturation**: Select
- **Contrast**: Select
- **Brightness**: Select
- **Backlight compensation**: Select

**Save**
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**

**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
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

Account Settings
- Directory Number (SIP ID): Directory number of Turbine Video station
- Server Domain (SIP): IP address of the SIP Server

1. 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

<table>
<thead>
<tr>
<th>Description</th>
<th>Configuration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Video mode</td>
<td>H264 RTP</td>
</tr>
<tr>
<td>Enable Video</td>
<td></td>
</tr>
<tr>
<td>Resolution</td>
<td>480P</td>
</tr>
<tr>
<td>Frames per second</td>
<td>15 fps</td>
</tr>
<tr>
<td>Bitrate</td>
<td>1000 kb/s</td>
</tr>
<tr>
<td>Video setup mode</td>
<td>Default</td>
</tr>
</tbody>
</table>

Advanced Settings

<table>
<thead>
<tr>
<th>Description</th>
<th>Configuration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lens distortion correction</td>
<td></td>
</tr>
<tr>
<td>Night mode</td>
<td></td>
</tr>
<tr>
<td>Zoom [1.00 - 2.50]x</td>
<td>1</td>
</tr>
<tr>
<td>Color saturation [0 - 255]</td>
<td>128</td>
</tr>
<tr>
<td>Contrast [0 - 255]</td>
<td>128</td>
</tr>
<tr>
<td>Brightness [0 - 255]</td>
<td>128</td>
</tr>
<tr>
<td>Backlight compensation</td>
<td>2</td>
</tr>
</tbody>
</table>

- 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

<table>
<thead>
<tr>
<th>Description</th>
<th>Configuration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Display Name</td>
<td>Dorm 4 floor</td>
</tr>
<tr>
<td>Directory Number (SIP ID):</td>
<td>2353</td>
</tr>
<tr>
<td>Server Domain (SIP):</td>
<td>10.8.101.120</td>
</tr>
</tbody>
</table>

**Backup Domain (SIP):**

- **Backup Domain 2 (SIP):**
- **Registration Method:**
- **Authentication User Name:**
- **Authentication Password:**
- **Register Interval:** 600 (min. 60 seconds)
- **Outbound Proxy [optional]:**
- **Outbound Backup Proxy [optional]:**
- **Outbound Transport:**
  - **SIP Scheme:** SIP
  - **RTSP Encryption:**
  - **RTSP Crypto Type:** AES_CMAC_SHA1_96
  - **Use Unencrypted SRTP:**
  - **TLS Private Key:** turbine_server_ssl256.key

### Call Settings

<table>
<thead>
<tr>
<th>Description</th>
<th>Configuration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Enable Auto Answer:</td>
<td></td>
</tr>
<tr>
<td>Auto Answer Delay:</td>
<td>0 seconds. Max 10 seconds.</td>
</tr>
<tr>
<td>Press and Hold Time:</td>
<td>0 seconds. Max 0 seconds. Defines how long a DAK key must be pressed before the call is established.</td>
</tr>
<tr>
<td>Max Ringing Time:</td>
<td>120</td>
</tr>
<tr>
<td>Max Conversation Time:</td>
<td>5600</td>
</tr>
<tr>
<td>Max Waited Calls:</td>
<td>20</td>
</tr>
<tr>
<td>Max Queued Calls:</td>
<td>5</td>
</tr>
<tr>
<td>Dial Method:</td>
<td></td>
</tr>
<tr>
<td>Enable Dialing Timeout:</td>
<td></td>
</tr>
<tr>
<td>DTMF method:</td>
<td></td>
</tr>
<tr>
<td>Conversation Mode:</td>
<td>Full Open Duplex</td>
</tr>
<tr>
<td>Remote Controlled Audio Direction:</td>
<td>(Received DTMF to listen, DTMF # to talk, DTMF 0 for open duplex)</td>
</tr>
<tr>
<td>SIP Message Controlled Audio Direction:</td>
<td>(SIP MESSAGE controls audio direction)</td>
</tr>
<tr>
<td>Route Volume on Push To Talk:</td>
<td></td>
</tr>
<tr>
<td>Override Remote Push To Talk:</td>
<td></td>
</tr>
<tr>
<td>Force Open Codes Using DTMF:</td>
<td></td>
</tr>
<tr>
<td>Send DTMF # with M key:</td>
<td></td>
</tr>
<tr>
<td>RTP Timeout value:</td>
<td>0 seconds. 0 = RTP Timeout Disabled</td>
</tr>
<tr>
<td>Codes g729:</td>
<td>Medium Priority</td>
</tr>
<tr>
<td>Codes g722:</td>
<td>High Priority</td>
</tr>
<tr>
<td>Codes g711a:</td>
<td>Medium Priority</td>
</tr>
<tr>
<td>Codes g711u:</td>
<td>Low Priority</td>
</tr>
</tbody>
</table>

**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

<table>
<thead>
<tr>
<th>Resolution</th>
<th>128 kb/s</th>
<th>300 kb/s</th>
<th>500 kb/s</th>
<th>1 Mb/s</th>
<th>2.5 Mb/s</th>
</tr>
</thead>
<tbody>
<tr>
<td>320x240 (240P)</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>No</td>
</tr>
<tr>
<td>640x480 (480P)</td>
<td>Not recommended</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>No</td>
</tr>
<tr>
<td>1280x720 (720P)</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
</tbody>
</table>

“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

<table>
<thead>
<tr>
<th>Resolution</th>
<th>128 kb/s</th>
<th>300 kb/s</th>
<th>500 kb/s</th>
<th>1 Mb/s</th>
<th>2.5 Mb/s</th>
</tr>
</thead>
<tbody>
<tr>
<td>320x240 (240P)</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>640x480 (480P)</td>
<td>Not</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1280x720 (720P)</td>
<td>Not</td>
<td>Not</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

‘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** &gt; **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

**Video Codecs**

- Select **Softphone** &gt; **Preferences** &gt; **Video Codecs**

- Enable codec **H.264**
**Account Settings**

- Select **Softphone > Account Settings**

### SIP Account

<table>
<thead>
<tr>
<th>Account</th>
<th>Voicemail</th>
<th>Topology</th>
<th>Presence</th>
<th>Storage</th>
<th>Transport</th>
<th>Advanced</th>
</tr>
</thead>
</table>

**Account name:** Hon Bria  
**Protocol:** SIP

Allow this account for:
- [x] Call
- [x] IM / Presence

### User Details

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>* User ID:</td>
<td>9910</td>
</tr>
<tr>
<td>* Domain:</td>
<td>10.5.11.55</td>
</tr>
<tr>
<td>Password:</td>
<td></td>
</tr>
<tr>
<td>Display name:</td>
<td>Hon Bria</td>
</tr>
<tr>
<td>Authorization name:</td>
<td></td>
</tr>
</tbody>
</table>

**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

1. The values for both these parameters are determined by the system administrator in the SIP server domain.
2. Enter values for the other parameters under Account Settings and Call Settings
3. 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

1. 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

2. 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

**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 “6.6.2 Video Settings for Desktop Video Display Station”.

**Camera Allocation**
- **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.

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

### Account Settings

**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

1. 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

### Directory Settings

**STENTOFON Stations**

Note: Subnet mask and gateway for all STENTOFON Stations are set to the same as this station's configuration

<table>
<thead>
<tr>
<th>Directory Number</th>
<th>Name</th>
<th>Password</th>
<th>DHCP / Static IP</th>
<th>Status Profile</th>
</tr>
</thead>
<tbody>
<tr>
<td>000</td>
<td>video-turbine2</td>
<td></td>
<td>169.254.1.100</td>
<td>Default</td>
</tr>
</tbody>
</table>

**Third Party SIP Terminals**

<table>
<thead>
<tr>
<th>Directory Number</th>
<th>Name</th>
<th>Enabled</th>
<th>Password</th>
</tr>
</thead>
<tbody>
<tr>
<td>999</td>
<td>ITSV-1</td>
<td></td>
<td>Default</td>
</tr>
</tbody>
</table>

Under **Third Party SIP Terminals:**

- 

---

Turbine IP Video Station Configuration Guide

A100K11559
● 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

<table>
<thead>
<tr>
<th>Description</th>
<th>Configuration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Video mode:</td>
<td>H264 RTP</td>
</tr>
<tr>
<td>Enable Video:</td>
<td></td>
</tr>
<tr>
<td>Resolution:</td>
<td>480P</td>
</tr>
<tr>
<td>Frames per second</td>
<td>15 fps</td>
</tr>
<tr>
<td>Bitrate:</td>
<td>1000 kb/s</td>
</tr>
<tr>
<td>Video setup mode:</td>
<td>Default</td>
</tr>
</tbody>
</table>

**Advanced Settings**

<table>
<thead>
<tr>
<th>Description</th>
<th>Configuration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lens distortion correction:</td>
<td>ar</td>
</tr>
<tr>
<td>Night mode:</td>
<td></td>
</tr>
<tr>
<td>Zoom (1.00-2.56x):</td>
<td>1</td>
</tr>
<tr>
<td>Color saturation (0-255):</td>
<td>128</td>
</tr>
<tr>
<td>Contrast (0-255):</td>
<td>128</td>
</tr>
<tr>
<td>Brightness (0-255):</td>
<td>128</td>
</tr>
<tr>
<td>Backlight compensation:</td>
<td>2</td>
</tr>
</tbody>
</table>

- 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
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

![ITSV-1 Account Setup](image-url)
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 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

Account Settings
- Directory Number (SIP ID): directory number of Turbine Video station
- Server Domain (SIP): IP address of station set up as Pulse Server

Call Settings
- Press and Hold Time: 0 seconds. Max: 60 seconds. Defines how long a DAI key/button must be pressed before the call is established.
- Max Ringing Time: 120 seconds. How long a call can be ringing before hanging up.
- Max Conversation Time: 3600 seconds. How long a call can be in conversation before hanging up.
- Max Queued Time: 20 seconds. How long a call can be queued before hanging up.
- Max Queued Calls: 5. How many incoming calls can be queued. Max: 5

Call Settings
- Conversation Mode: Full Open Duplex
- PTT Mode: Mic and speaker is controlled by PTT button
- Send DTMF with M key: Yes

Account Settings

Video Settings for Bria Softphone
- Select SIP Configuration > Video Settings

Video Settings
- Video mode: H264 RTP
- Enable Video: On
- Resolution: 480P
- Frames per second: 15 fps
- Bitrate: 1000 kbps
- Video setup mode: Default

Advanced Settings
- Loss distortion correction: On
- Zoom (1.00 x 1.50 x): 1
- Color saturation (0-255): 128
- Contrast (0-255): 128
- Brightness (0-255): 128
- Backlight compensation: 2
● 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

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:

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.

1. 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

#### Video Settings

- **Video mode:** Select 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

1. **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**

2. **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

① This feature applies to TCIV-2 and TCIV-3 only


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

① 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

**Directory**

<table>
<thead>
<tr>
<th>Name:</th>
<th>Number:</th>
<th>Contact Type:</th>
<th>Outgoing</th>
</tr>
</thead>
<tbody>
<tr>
<td>800 &lt;- active identity</td>
<td>800</td>
<td>None</td>
<td>Active</td>
</tr>
</tbody>
</table>

**Add or Edit Entry:**

<table>
<thead>
<tr>
<th>Number:</th>
<th>800</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number Type:</td>
<td>sip</td>
</tr>
<tr>
<td>Contact Type:</td>
<td>None</td>
</tr>
<tr>
<td>Outgoing Identity:</td>
<td>Active</td>
</tr>
<tr>
<td>Group:</td>
<td>None</td>
</tr>
<tr>
<td>Title:</td>
<td></td>
</tr>
<tr>
<td>Organization:</td>
<td></td>
</tr>
<tr>
<td>Email:</td>
<td></td>
</tr>
<tr>
<td>Note:</td>
<td></td>
</tr>
<tr>
<td>Photo:</td>
<td></td>
</tr>
<tr>
<td>Action-Url:</td>
<td><a href="http://10.5.2.134:8090/snoma.cgi">http://10.5.2.134:8090/snoma.cgi</a></td>
</tr>
</tbody>
</table>

- 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

**Configuration Identity 1**
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 they’re both registered in the Pulse system.

1. To verify station registration, you need to log into the station that has been set up as the Pulse Server.
2. 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**

**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

7.6.2 Video Settings for Desktop Video Display Station

● Select SIP Configuration > Video Settings

- 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

1. 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

2. 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

1. This feature applies to TCIV-2 and TCIV-3 only


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.

To log into the video part of the station:

1. Enter the default Username: admin
2. Enter the default password: alphaadmin
● Click Cameras

![Camera Settings](image)

- 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

**Status LEDs**
- **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

**Talk Icon: Flashing at 1 second intervals**
- 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

**Talk Icon: Flashing at 5 second intervals**
- 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**

- 70°
- Height: 160 cm
- Width: 140 cm
- 75 cm

**Horizontal Angle**

- 90°
- Height: 88 cm
- Width: 150 cm
- 75 cm
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.