

MANAGEMENT SOFTWARE

VSOIP 3.0 SUITE

VSoIP TOUCH USER MANUAL



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About This Guide

VSolP Touch is an IP spot monitor which displays edge-to-edge video from many different manufacturers' cameras. The touch-screen allows for easy control of video layout and cameras.

This document provides you with the basic information necessary to install, configure and make use of VSolP Touch.

Safety Terms and Symbols

These terms may appear in this manual:

Table 1 Safety terms and symbols

Caution	Cautions identify conditions or practices that may result in damage to the equipment or other property
Warning	Warnings identify conditions or practices that could result in equipment damage or serious personal injury

Chapter 1 – Getting Started

This chapter covers the following:

- Setting up the VSoIP Touch PC
- Quick Start with DHCP and a Wired Network Connection
- Configuring for Wireless Networks and/or Static IP Address

Note: VSoIP Touch is already licensed when you receive it. No licensing is necessary on your part.

Setting up the VSoIP Touch PC

Before starting to use VSoIP Touch, you must consider the following two questions:

- **Do I have a wired/wireless network?** The VSoIP Touch PC has two network connections: one wireless, one wired. By default, both of these are enabled. Both are also set up to support a DHCP server.
 - If you are using a wired connection, you do not need to take any extra steps.
 - If you are using a wireless connection, you must specify a wireless network before you can use VSoIP Touch. See “Configuring for Wireless Networks and/or Static IP Address” on page 7 for information on how to do this.
- **How is my IP address allocated?** To operate, the PC running VSoIP Touch requires a unique IP address.
 - If your network is serviced by a DHCP (Dynamic Host Control Protocol) server, the PC will **automatically** be allocated an IP address once it is connected to the network and switched on.
 - If you do **not** have a DHCP server on your network, you must manually assign an IP address to the PC before you can use VSoIP Touch. See “Configuring for Wireless Networks and/or Static IP Address” on page 7 for information on how to do this.

In Brief...

Depending on your network setup, it may be possible to start using VSoIP Touch as soon as it has been connected to the network and the power supply.

- **If your network has a DHCP server, and you are using a wired network connection, you do not need to take any additional steps.** Please see “Quick Start with DHCP and a Wired Network Connection” below for instructions on how to start up VSoIP Touch.
- If your network **does not have a DHCP server, OR if you are using a wireless connection**, you must carry out some configuration before you can use VSoIP Touch. Please see “Configuring for Wireless Networks and/or Static IP Address” on page 7 for instructions.

Quick Start with DHCP and a Wired Network Connection

Note: If you also have an unsecured wireless network, there is a risk that VSoIP Touch might connect to the wireless network instead of the wired one, obtaining its address from the DHCP server serving the wireless network. If this is not desired then please see “Disabling a Wireless Network” below, before continuing.

If your network has a DHCP server, i.e., IP addresses are assigned to networked devices automatically, **and** you are using a wired network connection, take the following steps.

- 1 Follow the PC’s installation guide for instructions on attaching it to the network and plugging into the power supply.
- 2 Attach the supplied keyboard and mouse to the USB connectors on the side of the monitor.

Note: These are only required during setup and configuration and are not necessary during normal operation.

- 3 Switch on the monitor then wait until the operating system and then the VSoIP Touch application start. This can take several minutes.

Caution: Do not attempt to make use of the system until the VSoIP Touch application has fully loaded.

- 4 The VSoIP Touch application opens.

Note: The IP address that has been dynamically assigned to your PC is indicated on the Help menu, as shown in Figure 1.



Figure 1 Determining the automatically allocated IP address

- 5 You are now ready to start using VSoIP Touch. See Chapter 2 for further instructions.

Disabling a Wireless Network

Caution: Most Windows computers will automatically choose to use a wireless connection if it's available, even if you also have a wired connection plugged in. When using your wired connection, it's best to disable wireless for optimal performance.

To disable a wireless network:

- 1 When the VSoIP Touch PC starts up, it automatically logs in using the “Display” user and starts the VSoIP Touch application. To disable wireless networks, you must log out of this user and log in as the “DisplayConfig” user.

- 2 To do this, touch the screen to show the menu, then touch Exit Application to close VSOIP Touch.

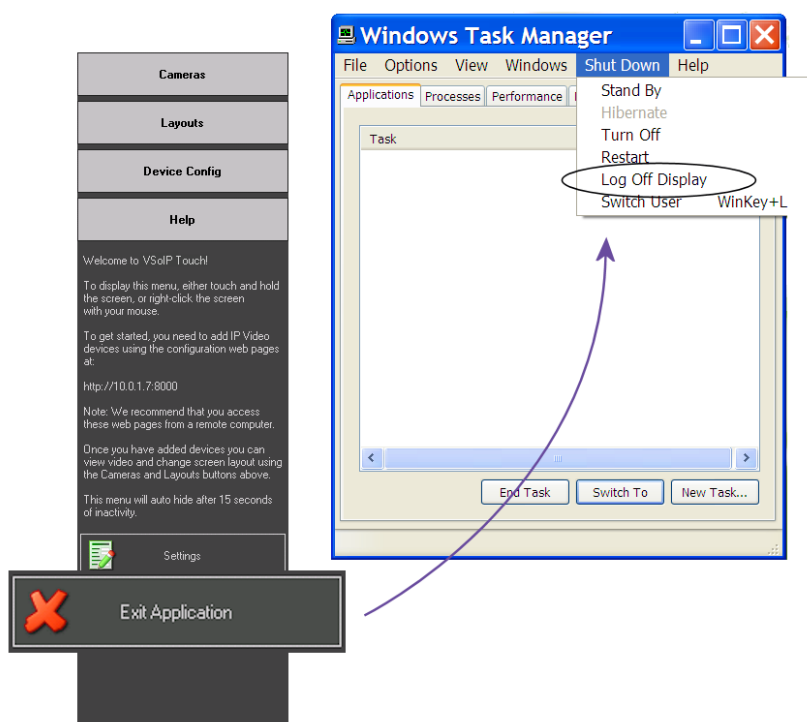


Figure 2 Logging out of the Display User

- 3 Hold the Ctrl and Alt keys while pressing the Delete key to open the Windows Task Manager. From the Shut Down menu, select Log off Display.
- 4 The Windows login screen appears. Press the Ctrl-Alt-Delete key combination twice to display a second login dialog.

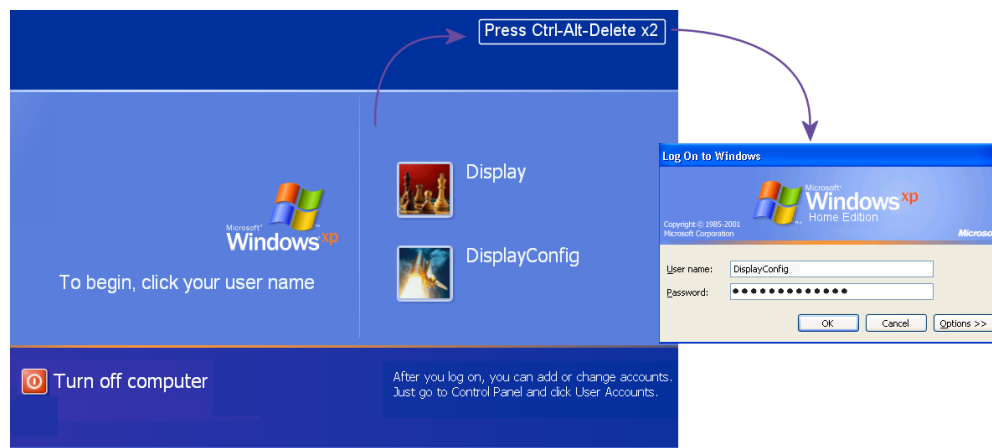


Figure 3 Logging in as the DisplayConfig User

- 5 For the User Name, enter DisplayConfig and enter *Configuration* as password. Touch OK to log in.
- 6 From the Start menu, select Control Panel.

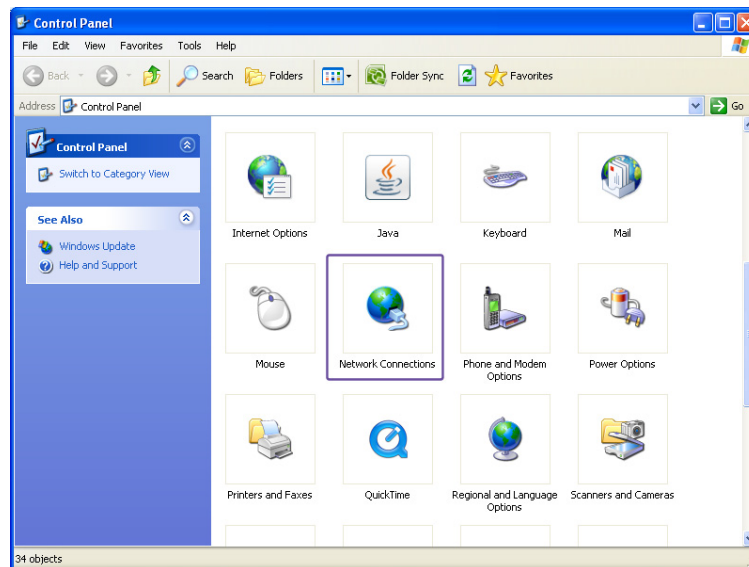


Figure 4 Accessing Network Connections

- 7 Double-click Network Connections, or, if Control Panel is in category view mode, click Network and Internet Connection then double-click Network Connections.
- 8 Right-click Wireless Network Connection and choose Disable.
- 9 Before starting to use VSoIP Touch, you must restart the VSoIP Touch PC. From the Start menu, select Shut Down, then Restart. The computer restarts and the VSoIP Touch application opens.
- 10 You are now ready to start using VSoIP Touch. See Chapter 2 for further instructions.

Configuring for Wireless Networks and/or Static IP Address

Follow these steps if **either** of the following apply to your network:

- IP addresses are not allocated automatically (you do not have a DHCP server).
 - You wish to use a wireless connection.
- 1 Follow the PC's installation guide for instructions on plugging into the power supply.
 - 2 Attach the supplied keyboard and mouse to the USB connectors on the side of the monitor.
- Note:** Keyboard and mouse are only required during setup and configuration and are not necessary during normal operation.
- 3 Switch on the monitor, then wait until the operating system and then the VSoIP Touch application starts. This can take several minutes.

Caution: Do not attempt to make use of the system until the VSoIP Touch application has fully loaded.

- 4 The VSoIP Touch application opens.
- 5 When the VSoIP Touch PC starts up, it automatically logs in using the "Display" user and starts the VSoIP Touch application. To carry out configuration, you must log out of this user and log in as the "DisplayConfig" user.
- 6 To do this, touch or click the screen to show the menu, then touch or click Exit Application to close VSoIP Touch.

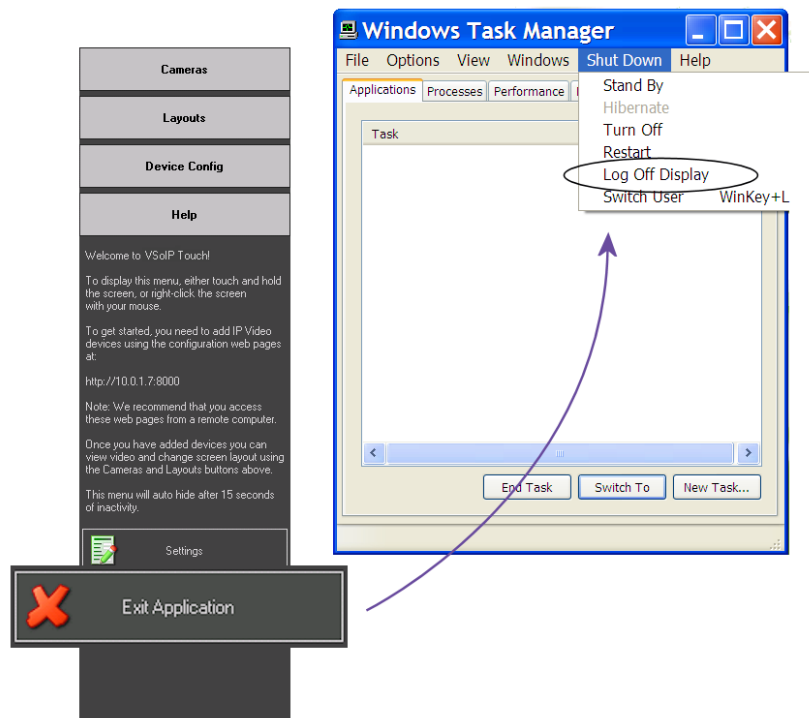


Figure 5 Logging out of the Display User

- 7 Hold the Ctrl and Alt keys while pressing the Delete key to open the Windows Task Manager. From the Shut Down menu, select Log off Display.
- 8 The Windows login screen appears. Press the Ctrl-Alt-Delete key combination twice to display a second login dialog.

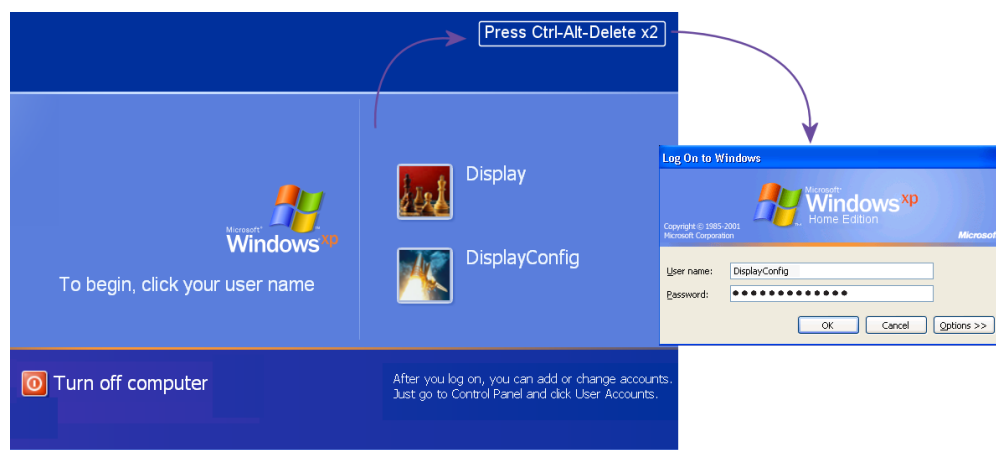


Figure 6 Logging in as the DisplayConfig User

- 9 For the User Name, enter DisplayConfig and enter Configuration as password. Touch OK to log in.
- 10 Continue to step 11 to specify a wireless network, or to step 15 to configure a static IP address.
- 11 If you have a wireless network, you must tell the VSoIP Touch PC about it. Click, or touch and hold the wireless network icon in the bottom right of the screen and select "View Available Wireless Networks".

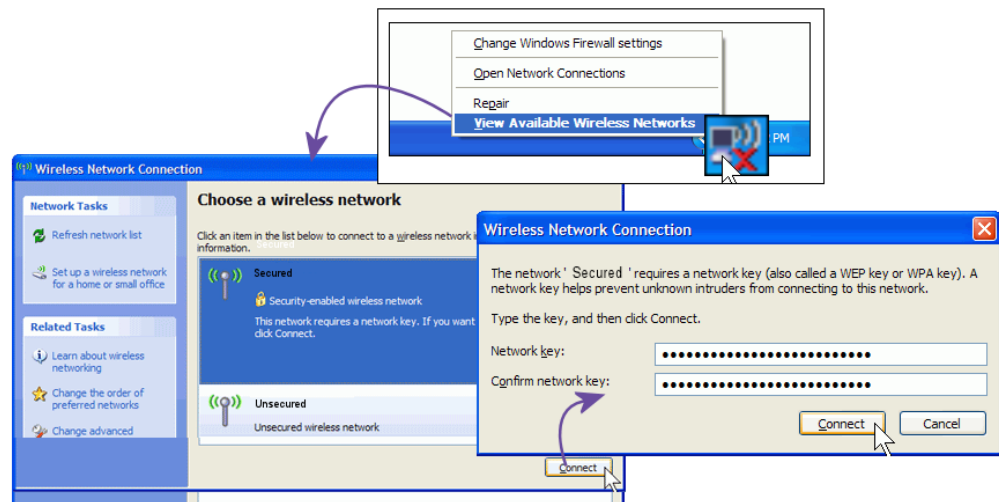


Figure 7 Selecting a wireless network

Note: Figure 7 shows a secure wireless network using WEP keys. Use the security settings appropriate to your wireless network.

- 12 The Wireless Network Connection window appears and displays a list of wireless networks that are broadcasting their SSID and are in range of the VSOIP Touch computer. If you don't see your network, confirm that your wireless access point or wireless router is broadcasting the SSID, then select Refresh network list in the upper left corner.
- 13 Select your network, then select Connect in the lower right corner. Windows prompts you to enter a key. You may need to type the encryption key or add other information as required by the security settings, then select Connect.

Note: This procedure is for WEP secured wireless networks, that is, networks which broadcast their SSID, however the procedure for other wireless network types is similar.

- 14 Continue to step 15 if you need to configure a static IP address, otherwise, skip to step 18.
- 15 To configure a static IP address, from the Start menu, select Control Panel, then Network Connections. Locate and right-click the network connection that represents your connection to the Internet (often labeled simply Local Area Connection).
- 16 Select Properties. Click Internet Protocol (TCP/IP), then Properties.

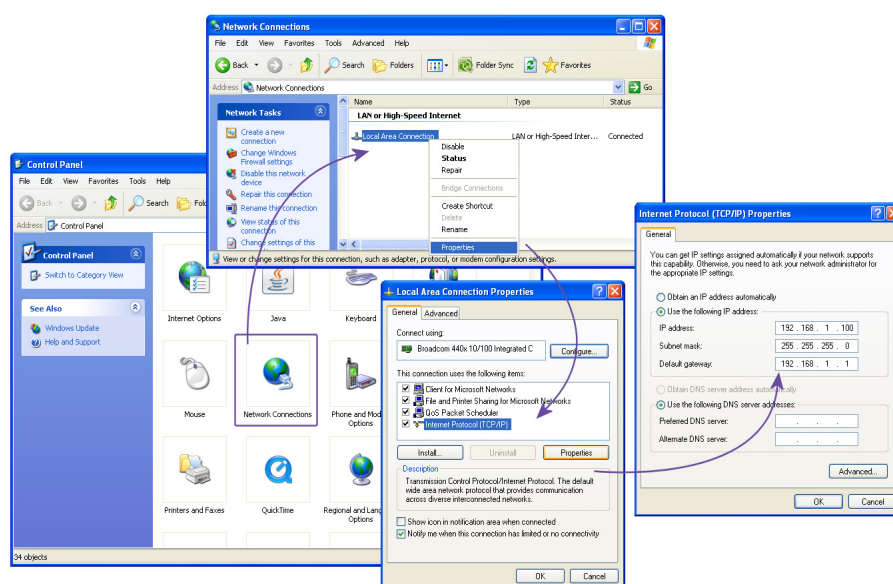


Figure 8 Configuring a static IP address

- 17 Select Use the following IP address and enter the IP address, subnet mask, and default gateway information that you have been given by the person responsible for your network IP address allocation. Next click OK to apply the static IP addressing and close the TCP/IP properties dialog. Then, after the TCP/IP dialog has closed, click OK on the Properties dialog to close it.

Note: The details shown here are an example only.

- 18 Before starting to use VSoIP Touch, you must restart the VSoIP Touch PC. From the Start menu, select Shut Down, then Restart. The computer restarts and the VSoIP Touch application opens.
- 19 You are now ready to start using VSoIP Touch. See Chapter 2 for further instructions.

Chapter 2 – Using VSoIP Touch with a Touch-Screen

This chapter contains the following information:

- Prerequisites
- Adding a Video Source Device
- Starting Video
- Stopping Video
- Controlling Screen Layout
- Accessing Device Web Configuration Pages

Note: Although the touch-screen can be used to add, configure or remove IP cameras and encoders and to configure VSoIP Touch, it is often more convenient to do these tasks in conjunction with a second PC using a web browser for configuration and setup. For more information, see “Using VSoIP Touch with a Web Browser”. Please note that the web browser on the second PC should be closed before interacting with VSoIP Touch on the touch-screen. If you do not close the web browser on the second PC, always refresh the content of the browser page before making changes since the system's state might have changed as a result of interaction with VSoIP Touch.

Prerequisites

The following sections assume the following:

- The VSoIP Touch PC is running.
- The IP address of the PC running VSoIP Touch is known.
- If possible, and for configuration purposes only, a second PC is networked to the PC running VSoIP Touch.

The VSoIP Touch Menu

The VSoIP Touch menu is hidden during normal operation. To reveal it, touch or click the screen. Note that no mouse pointer is shown until after the initial left or right click. If no interaction is made with the menu items, the menu is automatically hidden.

VSoIP Touch initially opens with one video display area known as a "video pane", or just a "pane". To start using VSoIP Touch, you must add video sources.

Adding a Video Source Device

To add a video source device (IP cameras and encoders) to VSoIP Touch, you must use a web browser (either “embedded” within VSoIP Touch or on a second PC) . Please follow the instructions in “Adding a Device” on page 16.

Controlling Screen Layout

To control the screen layout used by VSoIP Touch:

- 1 If the menu is not showing, touch or click the screen anywhere to reveal it.
- 2 Select Layouts.



Figure 9 Controlling screen layout

- 3 Select the layout you require. VSoIP Touch immediately switches to that layout. Note that reducing the number of visible video panes automatically stops video playing in the hidden pane(s). If a layout is then chosen with more available panes, the video previously stopped when the number of available panes was reduced is not automatically re-started.

Note: Video within a video display area normally stretches to fill the full area. This can distort the proportions of the video and might not be acceptable in all circumstances. To maintain correct proportions, you must change the aspect ratio option using a web browser. See “Controlling Screen Layout” on page 17.

Starting Video

To display video in a VSoIP Touch video pane:

- 1 Ensure that you have added at least one video source for VSoIP Touch to show.
- 2 If the menu is not showing, touch or click the screen anywhere to reveal it.
- 3 Select Cameras from the menu on the right of the screen.



Figure 10 Displaying video in a video pane

- 4 Select the pane where you want to display video. A red border appears around that pane to indicate that it is the active pane.
- 5 Select a video source device to display video from that device in the selected pane. Video from that camera is displayed.

Note: Once video is showing, VSoIP Touch attempts to display the video source device at all times until video is stopped. If the video source is not available, the video pane will appear completely black. VSoIP Touch will occasionally attempt to reconnect to absent devices. The message "Connecting..." will be seen when VSoIP Touch attempts to reestablish a connection. If VSoIP Touch is shut down and then restarted, video source devices that were being displayed or absent at shutdown time will be automatically started.

Stopping Video

To stop video playing in a VSoIP Touch video pane:

- 1 If the menu is not showing, touch or click the screen anywhere to reveal it.
- 2 Select the pane displaying video you want to stop.

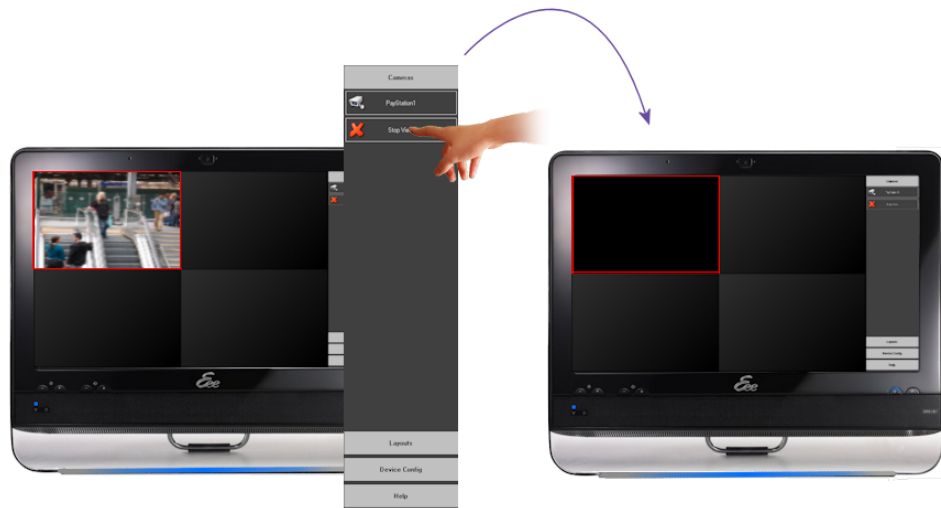


Figure 11 Stopping video in VSoIP Touch

- 3 Select Cameras, then Stop View.

Note: Once a video source device has been disconnected in this manner, the camera will not be automatically shown when VSoIP Touch is restarted.

Accessing Device Web Configuration Pages

Note: You may need to connect the keyboard and mouse to VSoIP Touch if the interaction likely during configuration is not possible using touch screen interaction.

VSoIP Touch allows you to alter a device's configuration using the device's own configuration web page (if available), as follows:

- 1 If the menu is not showing, touch or click the screen anywhere to reveal it.
- 2 Select Device Config, then the device you want to configure.



Figure 12 Accessing device web configuration pages

- 3 The device's web page appears in a new window.

Note: Only one device's configuration page can be open at any one time. You must close the web page before you can perform any other commands. Select the close button on the browser window to close the web page.

Chapter 3 – Using VSoIP Touch with a Web Browser

This chapter contains the following information:

- Prerequisites
- Overview of VSoIP Touch Configuration Website
- Adding a Device
- Controlling Screen Layout
- Starting Video
- Stopping Video
- Enabling “With Motion” Device Support

Caution: This chapter describes how to use VSoIP Touch with a web browser.

VSoIP Touch contains an “embedded” web browser which can be used to add devices and carry out other configuration. However, if you have not attached a keyboard or mouse to your VSoIP Touch computer, then you must carry out this configuration using a second networked PC.

Note: Although a web browser is used to configure and control video display, video is not displayed within the web browser, but rather in the VSoIP Touch application.

Prerequisites

The following section assumes the following:

- The VSoIP Touch computer is switched on.
- The VSoIP Touch application is showing a video layout of a series of slightly tinted dark rectangles each representing a video display area.
- If you are using a second PC for configuration purposes, you must know the IP address of the PC running VSoIP Touch (see Figure 1 on page 5). The second PC is used throughout the configuration process. On the second PC, open Internet Explorer 7 (or above). In the address bar, type the IP address of VSoIP Touch, e.g. <http://10.0.1.13>. The VSoIP Touch configuration website is displayed.

Overview of VSoIP Touch Configuration Website

VSoIP Touch configuration website is available using both the embedded and remote web configuration pages, and allows you to:

- Make permanent and persistent connections to video sources at various positions on VSoIP Touch.
- Choose from a set of video layouts.
- Add or remove video sources.
- View version information.

The website contains a left-hand menu which provides access to various configuration options:

- Display setup.
- Screen layout.

- Device configuration.
- System configuration.

Adding a Device

To add video sources to VSoIP Touch:

- If using the embedded web pages, touch or click the screen anywhere to reveal the menu, then select Settings.
 - If using a second PC for configuration, enter the IP address of the VSoIP Touch PC into the browser and press Return.
- 1 On the web configuration pages which appear, select Device Config from the left-hand menu.



Figure 13 Adding a device using the embedded web pages

- 2 Choose the video source from the sources listed in the Platform drop-down list.
- 3 Enter at least an IP address and a memorable name for the source.

Depending on your chosen device you may need to format the IP address entry in a particular way, e.g. the video input port. IP addresses are in the usual three dots form, e.g. 10.0.62.1. If required, a network port can be added if one has been configured on the device. e.g. 10.0.62.1:554

- 4 Enter an input port, if required. For most devices, a value of 0 is acceptable.

Note: On Bosch VIP-x multi-input multi-encoder devices, the following input ports are valid:

Table 2 Port usage for multi-input multi-encoder devices

00	analogue input 0	encoder 0	20	analogue input 2	encoder 0
01	analogue input 0	encoder 1	21	analogue input 2	encoder 1
10	analogue input 1	encoder 0	30	analogue input 3	encoder 0
11	analogue input 1	encoder 1	31	analogue input 3	encoder 1

Video input port details relate to what analogue input (and encoder) the video should be sourced from. All port numbers are 0-based i.e. for Bosch platforms, on a single analogue input and single encoder unit, the input port would be 00.

- 5 If the device has username and password access protection, enter these in the username and password fields.
- 6 If you are adding a “with motion” device, enter an event duration. VSoIP Touch can display video from “with motion” cameras when a motion event occurs. The event duration is the length of time that video from that camera remains on screen, once the *last* motion event has been received from that camera.

Note: You must enable “with motion” device support to display video from “with motion” devices when a motion event occurs. See “Enabling “With Motion” Device Support” on page 19.

- 7 Select Add Device. The device is added to the system.

Note: VSoIP Touch does not contain a method of adjusting the operational settings of platforms, e.g. video quality, motion detect sensitivity, etc. To adjust a platform’s settings you should use the web-page or application as described by the platform’s manufacturer.

Controlling Screen Layout

Note: Although this method can be used to control the screen layout, we recommend that you use the touch-screen to do this, as detailed in “Controlling Screen Layout” on page 12.

To control how video is displayed on VSoIP Touch:

- If using the embedded web pages, touch or click the screen anywhere to reveal the menu, then select Settings.
 - If using a second PC for configuration, enter the IP address of the VSoIP Touch PC into the browser and press Return.
- 1 Select Screen Layout, then the layout that you want to use.
 - 2 You can choose from several layouts. Clicking on the layout representation immediately causes VSoIP Touch to switch to that layout. The current selection is highlighted in red.



Figure 14 VSoIP Touch layout options using the embedded web pages

Video within a video display area normally stretches to fill the full area. This can distort the proportions of the video and may not be acceptable in all circumstances. To prevent distorted video, set Control Aspect Ratio to Enabled.

Note: The current Control Aspect Ratio setting applies only to the selected layout. Once enabled for a specific layout, the setting is retained for that layout.

Global Layout Settings

These refer to settings that affect all layouts. For more information, see “Enabling “With Motion” Device Support” on page 19.

Starting Video

Note: Although this method can be used to start video, we recommend that you use the touch-screen to do this, as detailed in “Starting Video” on page 12.

To display video in a video display area:

- 1 Select Display Setup from the left-hand menu.



Figure 15 Starting video using the embedded web pages

- 2 Select the video display area in which you wish to display video. The selected area is highlighted in red.
- 3 Open the Device drop-down list and choose the video source you want to display in this area. Video from this device is displayed on VSolP Touch in the selected position.

Note: The video display area on the web-page does not show video from the camera. Note also that video display areas on the web-page do not show which video display areas are in use.

Once video is started in this manner, video from the selected source is displayed in the video display area until it is stopped by a user command. If the PC running VSolP Touch is shut down and restarted, video will be reconnected automatically. If a video source is no longer available, VSolP Touch will repeatedly retry to connect the video feed until a connection is achieved or the user stops the connection attempt, by selecting the appropriate display area that matches the one retrying and clicking Disconnect (see Figure 15).

The text “Connecting” is displayed whenever VSolP Touch has been commanded to obtain video from a device but has not yet received any video.

Stopping Video

Note: Although this method can be used to stop video, we recommend that you use the touch-screen to do this, as detailed in “Stopping Video” on page 13.

To stop video displaying in a video pane:

- 1 Confirm the position on VSolP Touch for the video to be stopped.

- 2 Select the matching position on the Display Setup web-page (Figure 15). The selected video display area is highlighted in red.
- 3 Click Disconnect to stop the video (or any repeating reconnecting attempts) in the selected area.

Enabling “With Motion” Device Support

VSolP Touch can display live video from “with motion” devices when a motion event occurs. For this to happen, you must enable “with motion” device support, as follows:

- If using the embedded web pages, touch or click the screen anywhere to reveal the menu, then select Settings.
 - If using a second PC for configuration, enter the IP address of the VSolP Touch PC into the browser and press Return.
- 1 Select System Config from the left-hand menu.



Figure 16 Enabling “with motion” device support using the embedded web pages

- 2 Set the Video Motion Event Module to Enabled.

This means that video from a “with motion” device is now automatically displayed on screen when a motion event occurs on that device, and automatically stops after a period of time (as specified when adding the “with motion” device, shown in Figure 17).

Parameter	Value
Platform:	Ganz ZN-C9000 or ZN-T9000 with Motion
Address	10.0.20.30
Input Port	00
Name	MainExit
Description	
Username	
Password	
Event Duration	60

Add Device

Figure 17 Setting the Event Duration for an individual device

Increasing/Reducing Video Panes

VSolP Touch can increase or reduce the number of video panes shown on screen, according to motion events received from devices and the availability of vacant panes.

To enable this functionality, select Screen Layout from the left-hand menu.

Current Layout Settings

Control Aspect Ratio for selected layout: ☒ Enable ☐ Disable Save

Global Layout Settings

Auto Layout Mode (Inc/Dec layout on demand): ☒ Enable ☐ Disable

Auto Layout Mode Timeout: 60 Save

Figure 18 VSolP Touch layout options

- **Auto Layout Mode** — When enabled, the number of video panes shown on VSolP Touch reduces or increases according to motion events received by the server and the availability of vacant panes. Only devices that have a “with motion” entry react in this manner.
- **Auto Layout Mode Timeout** — VSolP Touch continuously analyses the number of video areas being used to display video. If the number of display areas used by the current layout is such that a smaller layout would make better use of the screen, **and** if no new video is displayed during the timeout period, then the layout is automatically changed to the smaller layout. The Auto Layout Mode Timeout prevents constant switching between layouts when video from a device automatically stops.

The following scenario describes a visitor entering a building with three “with motion” cameras: Door Entry, Corridor and Lift. Auto Layout Mode has been enabled on VSoIP Touch. The individual timeout values (set when adding the devices, see Figure 13) for the Door Entry, Corridor and Lift cameras are 10, 5 and 5 seconds respectively.

Time (secs)	Activity
T+0	Visitor approaches door entry system and triggers Door Entry camera motion sensor. Video starts displaying in a single pane.
T+5	Visitor enters building.
T+8	Visitor walks into corridor, and moves out of range of Door Entry camera. The timeout value for the Door Entry camera (10 seconds) begins when his last movement is detected.
T+8	Visitor triggers Corridor camera motion sensor. VSoIP Touch changes the display to 2x2 to display video from both Door Entry and Corridor cameras.
T+13	Visitor enters lift, and lift doors close. Lift camera starts displaying video. The timeout value for the Corridor camera (5 seconds) begins as there is no more movement in the corridor.
T+13	All three cameras now displaying video in a 2x2 display.
T+18	Video from Door Entry and Corridor cameras stop displaying as the timeout values have been reached. VSoIP Touch switches back to a single view displaying the Lift camera.
T+28	Lift reaches floor 3 and visitor exits lift, moving out of range of the Lift camera.
T+33	Lift camera's timeout value is reached and video stops displaying from this camera.

In this example, the Auto Layout Mode Timeout value is not required as the total time from start to finish is less than the 60 seconds specified in Figure 14. However, over a longer time period and with many more motion events, the display could be almost constantly switching between different layouts. The Auto Layout Mode Timeout prevents this from happening. If VSoIP Touch detects that the number of display areas used by the current layout is such that a smaller layout would make better use of the screen, **and** if no new video is displayed during the Auto Layout Mode Timeout period, then the layout is automatically changed to the smaller layout.

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