



User & Installation Manual

Quadrox POS Printer

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Preface

This document

This manual is intended for administrators and operators of a WebCCTV Video Recorder who want to use the POS (Point Of Sale) component and is applicable for WebCCTV software version 4.4.0.0 or higher.



This manual is applicable for both WebCCTV, GuardNVR and IQR Video Servers. Therefore WebCCTV can be replaced at all times by GuardNVR and IQR.

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1 Introduction

WebCCTV is a unique digital video surveillance solution, which combines three major functions in one Network Video Recorder (NVR) or Digital Video Recorder (DVR): local digital recording, multiplexing and simultaneous transmission of the video via existing networks (TCP/IP). To a standard WebCCTV, up to 20 cameras can be permanently recorded while multiple operators at different locations on the network are accessing the WebCCTV device.



Being a networked device, WebCCTV utilizes two basic principles of the Internet/Intranet technology:

- WebCCTV works over the TCP/IP network protocol, which provides maximum connectivity. This means that the existing computer network infrastructure can be used eliminating extra installation expenses.
- WebCCTV uses a web-based user interface to view live images, recordings, etc. More specific it uses Microsoft **Internet Explorer**.

Remote and Local Monitoring

To remotely monitor the connected cameras, the WebCCTV uses Web Browser technology. To locally monitor video, the WebCCTV also provides a local interface via a PC monitor directly connected to the WebCCTV. This local interface allows an operator to see live video from the connected cameras without the need for additional client computers on a network.



Quadrox POS Printer is a Windows printer driver which can be used by applications to present its document to some external/internal device (printer, fax, ...). In our case, the driver can be directly connected to a WebCCTV server. This means that if you are working with a program which can print a document, you can print your document with the Quadrox POS Printer. The print job will go directly to the appropriate WebCCTV, and will be classified as a ticket. The WebCCTV will process it, storing it in its database, and if configured, will attach recordings from the configured camera(s).

To configure and use ticket printing with the Quadrox POS Printer for your WebCCTV installation, you need to perform the following steps:

1. Install the Quadrox POS Printer
2. Configure the Quadrox POS Printer
3. Install WebCCTV Alarm Component
4. Configure POS source in the Video Manager

After all of the configurations mentioned above, you will be able to monitor in real time the printed tickets, and the cameras attached to each Quadrox POS Printer source. Also, you will be able to search for the tickets with their associated recordings.

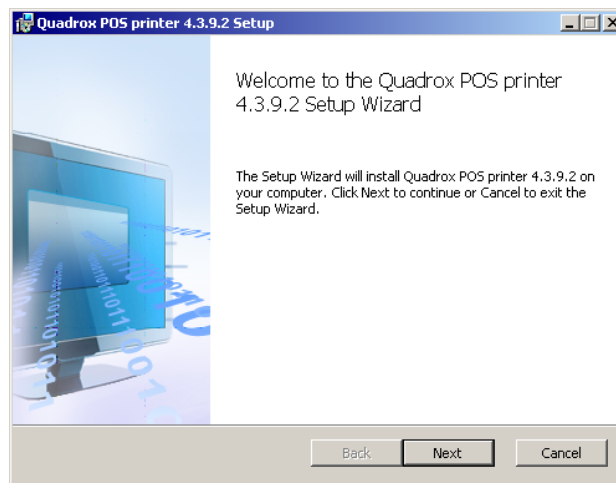
2 Quadrox POS Printer

2.1 Installation

Quadrox POS Printer can be installed on any computer which has network access to the WebCCTV machine which will process the printed tickets.

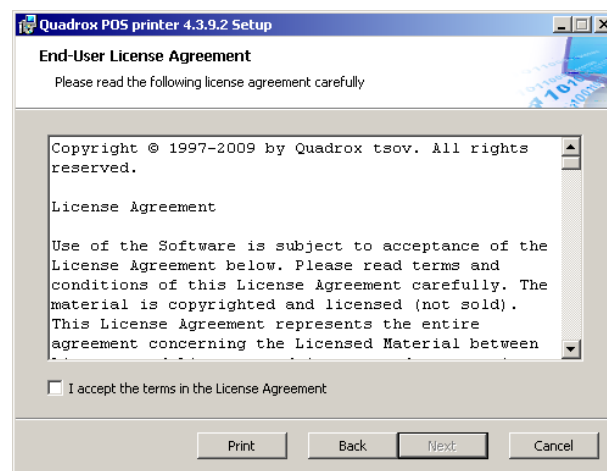
To install, follow the steps below:

1. Run the **Quadrox POS Printer Installation** setup. This setup can be found in the support section on www.webcctv.com under the subsection **Tools**. If you are installing the Quadrox POS Printer on the WebCCTV unit, you can simply install it by clicking the shortcut link in the **Optional Components** folder on the desktop.



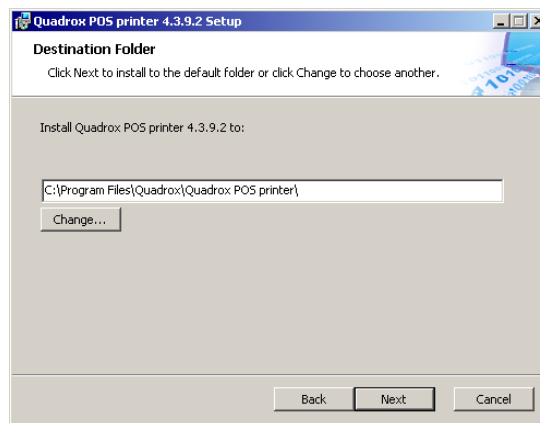
Remote POS Monitor Welcome Screen

2. Check the "I accept the terms in the License Agreement" check box, and click **Next**.



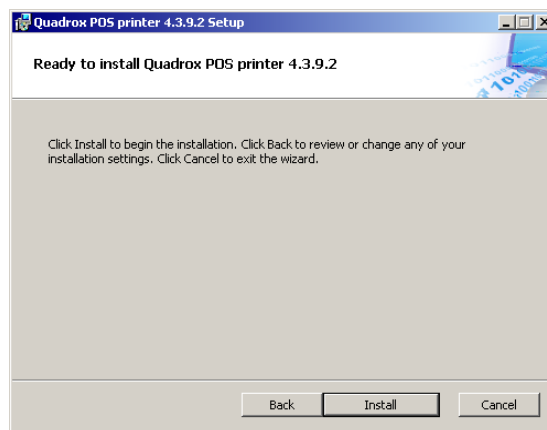
License Agreement Screen

3. You will be asked for the folder where the Quadrox POS Printer should be installed.



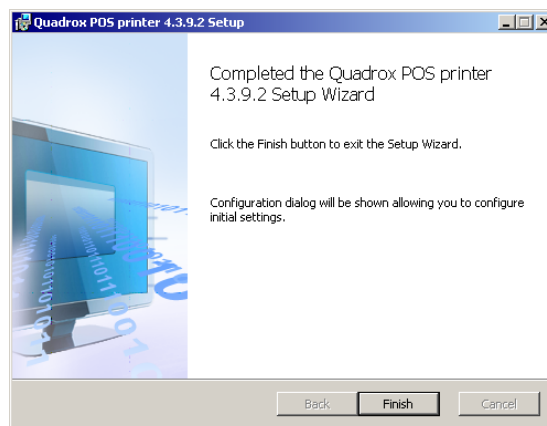
Installation Path Screen

4. Click **Install**.



Installation Safeguard Screen

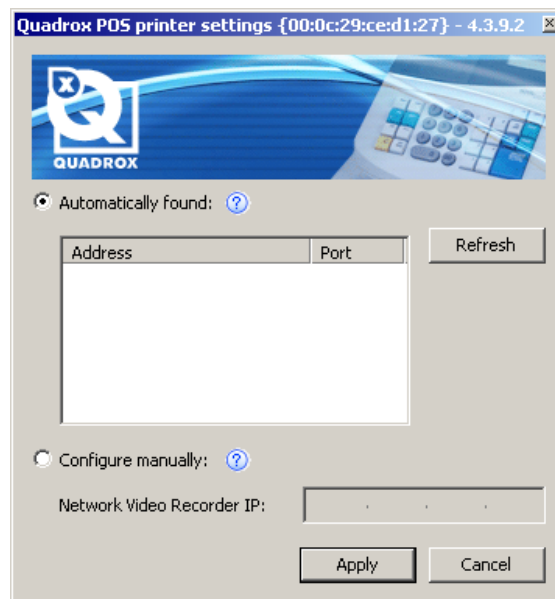
5. Click **Finish** to finish the setup. Proceed to **Chapter 3** below.



Installation Finish Screen

2.2 Configuration

When the installation finishes, the configuration window of Quadrox POS Printer will appear.



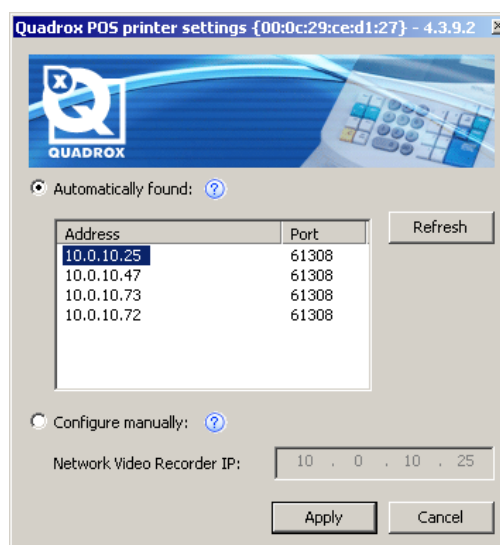
This configuration window can be opened also by double or right clicking the blue printer icon in the notification area on the task bar.



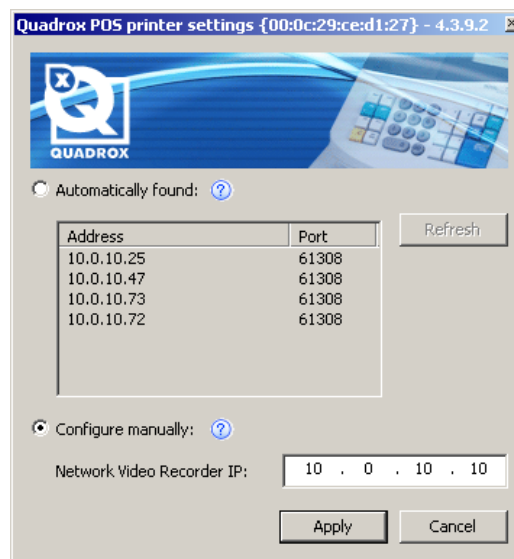
If the icon is not there, you can launch it by running **OPPosprintApp.exe** from “C:\Program Files\Quadrox\Quadrox POS printer\”. (Path where you installed Quadrox POS Printer).

You need to configure the IP address of the WebCCTV where you want to send the tickets to. There are two options:

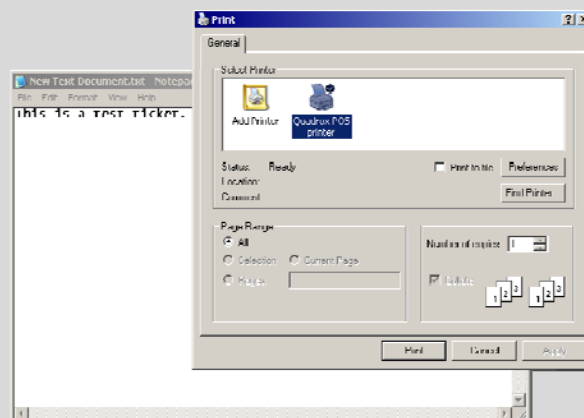
- Search the WebCCTV unit (if it is on the same LAN as the POS Printer machine is). Click **Refresh** and select the address you need. Now click **Apply**.



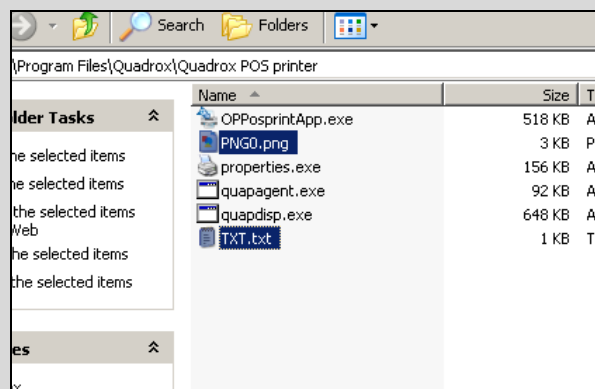
- If the WebCCTV unit is not on the same LAN, or if it is not discovered automatically for some reason, then you can manually input the IP address. Select the checkbox **Configure manually**, type in the IP address, and click **Apply**.



To test that the POS Printer driver works correctly, you can print some sample file. Just open up Notepad (**Start -> Run... -> notepad -> OK**), type some random string of letters, and print your text. Make sure to select **Quadrox POS printer** in the **Print** dialog:



Check the installation folder "C:\Program Files\Quadrox\Quadrox POS printer\". There should be two files – an image (**PNG0.png**) and a text file (**TXT.txt**):



3 Alarm Component

3.1 Installation

To install the Alarm Component please follow the steps described in the **Alarm Component Installation Manual**. This chapter retakes the **default installation** procedure.

Before you can install the Alarm Component, the following components have to be installed:

- WebCCTV Server 4.4.0.0 (or higher)
- Microsoft Framework .NET 2.1 (or higher)
- Microsoft SQL Server 2005 Express Edition (or better)



The Microsoft Framework .NET 2.1 and Microsoft SQL Server 2005 Express Edition may be installed already on your system. The setup will inform you if a component is not yet installed. If the setup finds the missing component, it will try to install it automatically; otherwise this component has to be installed manually.

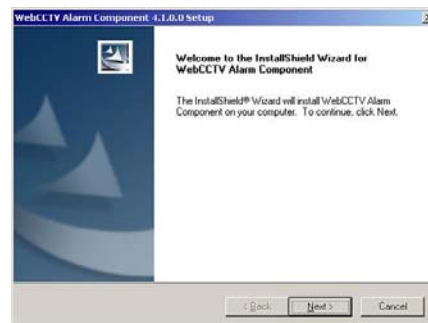
Installing the Alarm Component is done in several steps:

- Open the **Optional Components** folder on the desktop and click the **Alarm Component Setup** link.



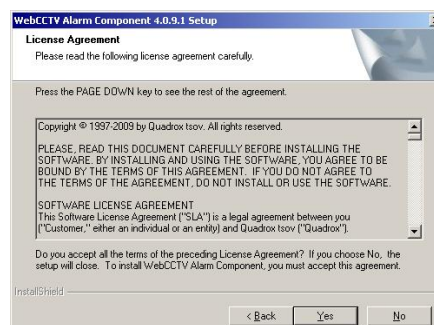
If you have a GuardNVR system, you can download the alarm component from the following page: <http://www.quadrox.com/software-download.aspx>

- The welcome screen appears. Click **Next**.



Welcome Screen

- Accept the License Agreement. Click **Yes**.



License Agreement Screen

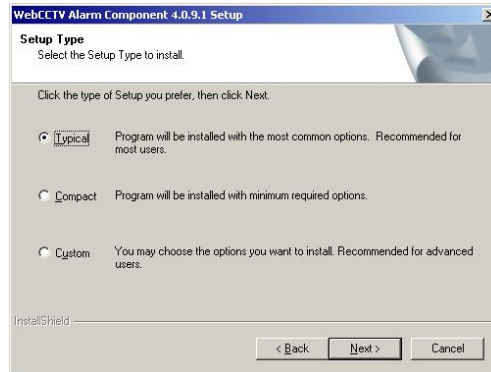


Please read the License Agreement carefully. If you don't agree with the terms, you can't install the Alarm Component.

- Select **Typical** and click **Next**.

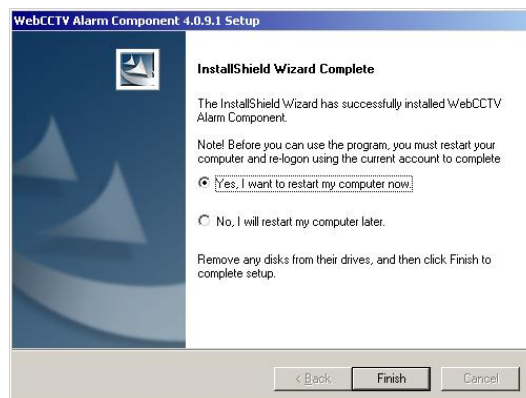


Typical is the default setup type. This is advised for normal installations.



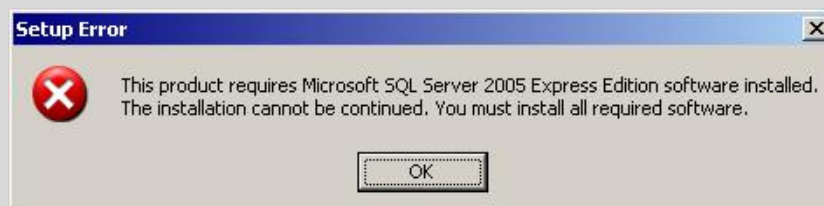
Setup Type Screen

- The Alarm Component installation will start automatically. Select “**Yes, I want to restart my computer now**” and click **Finish**.



Finish Installation Screen

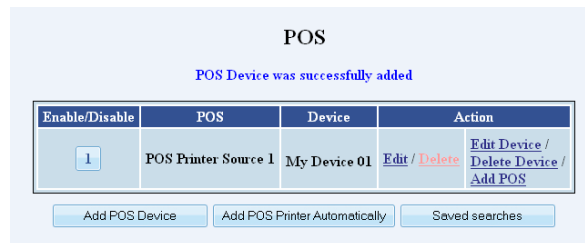
If Microsoft SQL Server Express Edition or higher is not yet installed, the setup will inform you about this and check for automatic installation. If not, it will ask you to install it first manually.



The alarm component is now installed.

3.2 Configuration

When Alarm Component Installation is completed, open the **Video Manager** Application and go to **POS** section of the **Settings** menu. You can **Add POS Devices**, **Configure POS Devices** and configure **Saved Searches**.



POS Configuration Screen

3.2.1 Add POS Device

There are two main methods to add the Quadrox POS printer device:

- Automatic
- Manual

3.2.1.1 Automatic

Click **Add POS Printer Automatically**, select the device you want to add and click **Add**. Everything will be done automatically. If you don't find the device you're looking for, please go to **5.1.2 Manual**.

3.2.1.2 Manual

In order to add and configure your Quadrox POS Printer device, click the **Edit device** or **Add POS Device** link/button in the POS screen. The **POS Device Configuration Wizard** consists of three tabs with easy to follow instructions.

3.2.1.2.1 Name

In this tab, you can adjust the POS Device name. It's a part of the **POS Device Configuration Wizard**.



Name (Serial Port POS) Screen

Click **Next** to enter the next POS Device Configuration Wizard Screen.

3.2.1.2.2 Protocol

In this tab, the protocol has to be selected. It's a part of the **POS Device Configuration Wizard**.

Select **Quadrox POS Printer** in the drop-down list.

The screenshot shows a software window titled "WebCCTV POS Device Configuration Wizard". At the top, there are three tabs: "Name", "Protocol" (which is selected and highlighted in blue), and "Connection". Below the tabs, the text "Please specify the POS protocol..." is displayed. Underneath this text, there is a label "Protocol:" followed by a drop-down menu. The drop-down menu is open, showing "Quadrox POS printer" as the selected option. At the bottom of the window, there are four buttons: "<< Previous", "Next >>", "Finish", and "Cancel".

Protocol (Serial Port POS) Screen

Click **Finish**.



Depending on the drivers you installed together with the Alarm Component, it's possible some values are not present in the drop-down list.



If you entered the POS Device Configuration Wizard by clicking the **Edit Device** link in the POS Screen, you can't change the protocol anymore, but can only see which protocol has been selected.

3.2.1.2.3 Connection

This tab is not available for Quadrox POS Printer Devices. You don't have to configure it.

3.2.2 Configure POS Device

In order to configure the sources, click the **Edit** link of the source in the POS screen which will lead you to the POS configuration Wizard. The **POS Configuration Wizard** consists of two tabs with easy to follow instructions.



The POS functionality is a part of the WebCCTV Alarm Component. You need the Alarm Component installed before you can use the POS functionality.

3.2.2.1 Name

This tab is a part of the **POS Configuration Wizard**. The following parameters have to be configured:

- **Name** – specify the name of the POS source.
- **POS Mac ID** – MAC ID of the Quadrox POS Printer device. The MAC ID can be found on the title bar of the Quadrox POS Printer configuration window (refer to Chapter 2.2 Configuration). Click **Next**.

The MAC ID can be also obtained in the following way:

- On the machine where the Quadrox POS Printer is installed, click **Start -> Run ... -> cmd -> OK**
- Type **ipconfig /all** and press the **Enter** key
- Find the line which contains **Physical Address**, there will be printed the MAC ID of that system (for example, **00-1D-7A-90-4B-BA**)



NOTE: when you input the MAC ID into the WebCCTV configuration wizard, all of the alphabetical letters should be typed in lower case!



Name (Quadrox POS Printer) Screen

Click **Next** to enter the next POS Configuration Wizard Screen.

3.2.2.2 Recordings

This tab is a part of the **POS Configuration Wizard**. In this tab you are able to do the following:

- Add or delete cameras to record when a ticket is generated.



Multiple recordings can be assigned to one source. This way, a ticket can be monitored from different cameras and angles.

Set the recording time before and after a ticket is generated. This is also called the pre and post ticket recording interval.



A ticket movie is labelled recorded footage from a camera you attached to the ticket, i.e. when a ticket comes in, the specific period of time recorded from a specified camera is labelled and saved. Once the recording is complete, it appears as an alarm movie. If there aren't any recordings (i.e. when there is no activity) for the period when the alarm occurs, recordings still will be present as the recordings will be forced because an alarm was triggered and considered being high priority.

To add the camera to be recorded when a ticket is generated, follow the steps below:

1. Select the camera from the drop-down list.
2. Select the pre and post ticket label interval for each camera.
3. Click the **Add camera** button.
4. Decide which camera will be the **primary** camera which will be shown when selecting a ticket.

WebCCTV POS Configuration Wizard - Generic POS Source 1

Please choose the recording parameters...

Primary	Camera	Pre-event label interval	Post-event label interval	Action
<input checked="" type="radio"/>	Camera 1	30 sec.	30 sec.	Delete
<input type="radio"/>	Camera 2	30 sec.	30 sec.	Delete
<input type="radio"/>	Camera 3	30 sec.	30 sec.	Delete
	Camera 4	30 sec.	30 sec.	Add Camera

<< Previous Next >> Finish Cancel

Recordings (Serial Port POS) Screen

To delete a camera, click **Delete**.

Click **Finish** button.

4 Handling POS transactions

4.1 Search POS Transactions

The **Recordings** menu of the **Video Browser** application allows you to search and view recorded footage and export clips of this video footage.

Recordings Management

Please specify the following:	
From (Date/Time):	10 October 2009 10 0 0
Time period:	1 hour Precise Search
Single camera playback:	<div style="border: 1px solid black; padding: 10px; text-align: center;"> Camera 1 </div>
Synchronized playback:	
Alarm listing:	
POS:	
Movie export:	
Search	

Recordings Screen

Please execute following steps:

- Selecting the time period is needed for all possible recording requests as you need to search amongst all footage which has been recorded. To select a **time period**, you have to specify time and date. There are two ways of specifying a certain time period:
 1. Using a **From** date and a **Time span** interval: all recorded video footage between the **From** date plus the **Time period**, will be shown.

Please specify the following:	
From (Date/Time):	15 December 2007 12 54 0
Time period:	1 hour Precise Search

2. Using **Precise Search** with **From** and **To** date: all recorded video footage between these two points in time will be shown.

Please specify the following:	
From (Date/Time):	15 December 2007 12 54 0
To (Date/Time):	15 December 2007 13 54 0
Interval Search	

Click on the calendar icon to be able to choose the **From** or **To** date.



December 2007						
<	<<	>>	>			
M	T	W	T	F	S	S
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
31						
Close						



Click the **Interval search** button in order to return to **Time span** search.



Note that in the **From/To** and the **Time span** modes, time and dates in the future cannot be specified. If a date in the future is selected, your time and date will be adjusted to the current date and time.

3. Select **POS** tab.

Single camera playback:	<div> <input type="text"/> </div> <div> <input checked="" type="checkbox"/> Source name <input checked="" type="checkbox"/> Point of Sale Drinks <input checked="" type="checkbox"/> Point of Sale Entrance </div> <div> <input type="button" value="Hide POS sources"/> </div>
Synchronized playback:	
Alarm listing:	
POS:	
Movie export:	

POS Search Tab Screen

4. Enter or select the **search criteria** by:
 - a. Enter search criteria manually in the text field
 - b. Selecting a previously saved search string by clicking

If you want to save your search criteria to the saved search strings, click . Enter a **saved search name** and **search criteria** and click **Save**.



Save search	
Saved search name	Search all tickets for Fanta
Search to save	Fanta
<input type="button" value="Save"/> <input type="button" value="Cancel"/>	

The search string is now added to the saved search strings. To manage all saved searches, go to **5.3 Saved Searches** from the **WebCCTV User Manual**.

Creating a search string or search criteria is Google alike. Please read below which options are available:



- A search string is by default considered to be a set of separate words that are search in an AND way. Search results will include the tickets that contain all words, but not necessarily in that order. Typing the word “AND” is not needed.
- Search is **not case sensitive**.
- **Phrase search** – a set of words that should be searched exactly in that order can be put inside quotation marks: “”. E.g: “Bicky Burger”
- **Word exclusions** – a word that should not appear in the ticket should be preceded by a minus sign: -
- **OR searches** – to display results that contain either of two search terms, the user can put the word OR (capitalized) in-between the terms. Only the words or phrases directly left and right of OR will be considered. Other words will be searched in AND connection.
- The requirements for **space** (or the absence thereof) are supported.

5. **Select/Deselect** the POS sources on which you want to search (Optional).
To show all POS Sources, click the **Show POS sources** button.

6. Click **Search** button.

7. For new POS transaction recordings search, click **New Search** button.



Recordings POS Screen

Click on the camera buttons to see the recordings associated with the ticket that is highlighted in the right pane. All cameras that are configured to record for this ticket have a light blue button. The active shown camera button is bright blue.

To navigate through all found tickets, use the arrows in the right pane.



When no tickets are found for the requested period, the screen will automatically revert to the main recordings page.

4.2 Handling POS Transactions

The **POS Menu** of the **Video Browser** application allows you to view real time video of a camera together with its tickets. When a ticket is generated where the selected camera is configured to record, the ticket will be shown in real time till a new ticket enters which is associated to the selected camera.



The **Alarm Component** has to be installed to see the menu.

The following sections are described:

- View live camera and ticket
- Low/High Bandwidth mode
- Snapshots
- Digital Zoom
- Full Screen Mode



POS Screen

4.2.1 View Live Camera and Ticket

In the POS Screen, you get a list of all the transactions with their associated recordings and tickets. Furthermore you also get the **date** and **time** of each POS transaction.

To view a POS transaction movie, click on the **transaction event link** and the movie of the primary camera will be displayed in the video window screen. You can switch between all

cameras that are associated with a transaction by clicking the corresponding camera icon .

If you want to see the live view of the cameras, click on the following  icons.

The list is limited to the 5 most recent deactivated alarm events if all are in deactivated state. Activated alarms stay visible until deactivated, up to a maximum of 50.



When clicking on the transaction name, the recording of the primary camera connected to that transaction is shown. If there aren't any recordings (i.e. when there is no activity) for the period when the alarm occurs, recordings still will be present as the recordings will be forced because an alarm was triggered and considered being high priority.



To extend the POS pane, click on its upper board and move it to the top of the screen holding the left mouse button.





If you don't see your transaction event in the list, you can search it by clicking the **New Search** button which will redirect you to the recordings menu (see **4.1 Search POS Transactions**).

4.2.2 Low/High Bandwidth Mode

Low/High bandwidth mode allows you to decide if you want to have streaming video that consumes. You can choose out of:


- **High Bandwidth Mode** (Default) – High Bandwidth mode is used preferably on local computers (when the WebCCTV client is located on the same machine as the WebCCTV server), in local area networks or with high-speed Internet connections.

Use the **High** () button to enable high bandwidth mode.

- **Low Bandwidth Mode** – Low bandwidth mode is mostly used in medium- or slow-speed LAN or Internet connections. When Low Bandwidth mode is enabled, the frame rate and the resolution of the images are reduced. This produces a reduced bandwidth usage for streaming video. Use the **Low** () button to enable low bandwidth mode.

4.2.3 Snapshots

This WebCCTV feature gives you the opportunity to take snapshots. To create a snapshot, follow the steps below:

1. Choose the frame you want to save and click the button with the camera symbol ()
2. Choose the desired location for storing images and click the **Save** button.



Snapshots are saved in .JPEG format.

4.2.4 Digital Zoom

The Digital Zoom functionality is very useful when there are small details in the scene, but the camera doesn't support optical zoom and there's no way to visually enlarge those objects.


In order to use the **Digital Zoom** functionality, follow the steps below:

1. Click on the video window in order to set a focus point.
2. Use the scroll wheel to zoom the image in and out (a magnifying glass is shown).
3. When partially or totally zoomed in, click on any point of the video screen in order to centralize the video window on this point. This also resets the focus point of further zooming in and out.




You cannot use the Digital Zoom functionality if your mouse doesn't have a scroll wheel.

4.2.5 Full Screen Mode

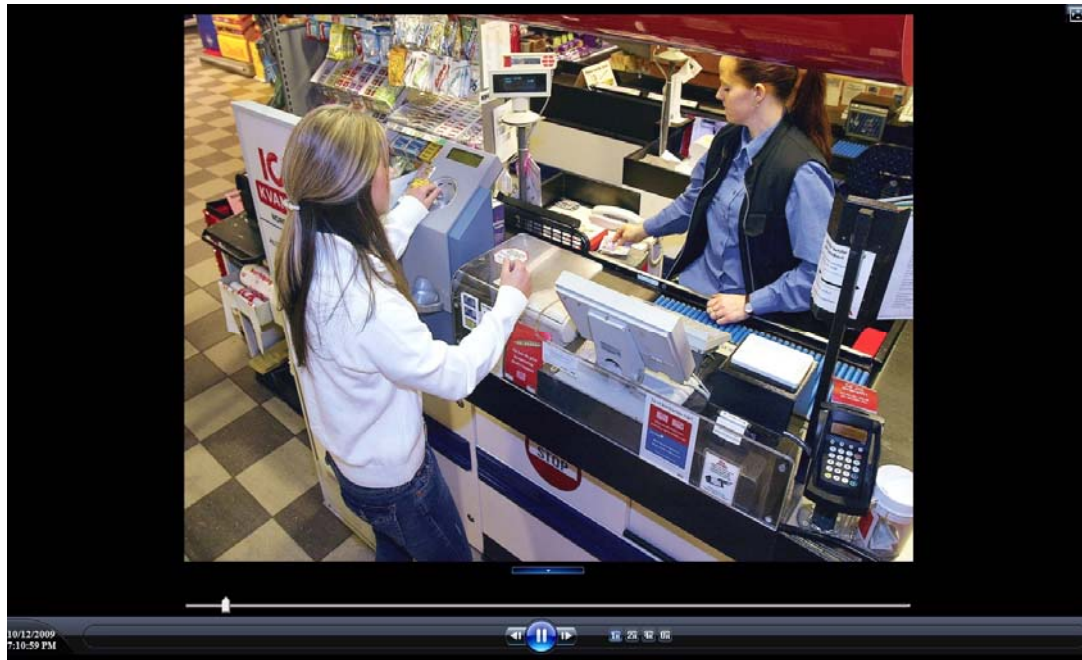
Full screen mode allows you to visualize video by using the full screen. When going to full screen the activity line and camera buttons are hidden by default. You can unhide them by clicking the  icon.



Full Screen mode is not the same as pressing F11 in Internet Explorer.

To enter the full screen mode, click the  icon.

To leave the full screen mode, click the  icon at the right top corner or press any key on the keyboard.



Full Screen Mode Screen