

AxxonSoft

POS–Intellect Software Package

Operator's Guide

Version 1.4

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Contents

CONTENTS	2
1 TERMS AND ABBREVIATIONS	3
2 INTRODUCTION	4
2.1 The purpose and structure of the guide	4
2.2 The purpose of the POS-Intellect system	4
2.3 Recommendations for using the POS-Intellect system	4
3 GENERAL DESCRIPTION OF THE POS-INTELLECT SOFTWARE PACKAGE	5
4 USING THE <i>POS-INTELLECT</i> SOFTWARE SYSTEM	7
4.1 Starting and closing the system	7
4.2 Using the Monitor window	8
4.2.1 General information	8
4.2.2 Viewing video and receipt contents	8
4.2.3 Recording video and receipt contents	8
4.3 Using the Titles search window	9
4.3.1 General information	9
4.3.2 Creating a query	9
4.3.3 Searching the titles database	10
4.3.4 Viewing search results	12
4.3.5 Printing search results	13
4.3.6 Changing the sizes of interface elements	14
4.4 Using the Receipts search window	16
4.4.1 General information	16
4.4.2 Creating a query	16
4.4.3 Searching the receipts database	17
4.4.4 Viewing search results	19
4.4.5 Printing search results	20
4.4.6 Changing the window layout	21
5 DESCRIPTION OF THE POS-INTELLECT USER INTERFACE	24
5.1 The Monitor window	24
5.2 The Titles search window	26
5.3 The Receipts search window	27

1 Terms and abbreviations

The following terms are used throughout this document:

1. the guide – the POS-Intellect: Operator’s Guide document;
2. the system – the POS-Intellect software system;
3. Video Surveillance Monitor / Monitor– interface window for displaying and controlling video tiles;
4. video tile – surveillance window with the receipt details superimposed over video of transactions;
5. titles DB – the titles database;
6. receipts DB- the receipts database.

2 Introduction

2.1 The purpose and structure of the guide

The *POS-Intellect: Operator's Guide* is a reference manual to be used by operators of the POS-Intellect software package.

2.2 The purpose of the POS-Intellect system

The POS-Intellect software package is designed for monitoring cashier operations in retail shops and has the following functionality:

1. simultaneous viewing of the video image, the receipt contents and the POS-terminal events in real time;
2. simultaneous recording of the video image, the receipt contents and the POS-terminal events;
3. creating user queries allowing to search the video archive by receipt contents and by system events;
4. integration with common POS-terminals.

2.3 Recommendations for using the POS-Intellect system

For correct operation of the POS-Intellect system, please follow these recommendations:

1. follow the job description accurately;
2. use the system for the intended purpose only;
3. do not use the computer with Intellect installed, to run other software which is not part of the Intellect package.

3 General description of the POS-Intellect software package

POS-Intellect includes the following software modules:

1. the basic version of the Intellect software package – Intellect (base);
2. POS-operations module.

The POS-operations module has the following functionality:

1. simultaneous viewing of the video image, the receipt contents and the POS-terminal events in real time;
2. simultaneous recording of the video image, the receipt contents and the POS-terminal events;
3. creating user queries allowing to search the video archive by receipt contents and by system events;
4. the module provides user interfaces for the following functional modules:
 - 4.1 **Monitor** module (video and titles display), represented by the **Monitor** window;
 - 4.2 **Titles search** module (searching the video database by titles), represented by the **Titles search** window;
 - 4.3 **Receipts search** module (searching the receipts by event), represented by the **Receipts search** window.

The following databases are used in POS-Intellect:

1. internal database of the server – contains the system settings and the data on registered events;
2. titles database – contains the data from POS-terminals;
3. receipts database – contains the data from POS-terminals.

Database has MS SQL format. A list of MS SQL Server versions, supported in the Intellect software is given in Table 3-1.

Table 3-1 Types of MS SQL Server supported versions

MS SQL Server version	Supported edition
MS SQL Server 2005 - see. http://www.microsoft.com	Express Edition
	Workgroup Edition
	Standard Edition
	Enterprise Edition

Note! MS SQL Server 2000 and MS SQL Server 2008 database are not supported in the POS-Intellect software. While using these databases, technical support is not provided.

The **POS-operations** module uses the **Titles database** module, which is installed by default with the Intellect (base) platform. The Titles database module overlays the video image received from the surveillance camera with the receipt contents. The result of this operation is included in the titles database (using the **Titles database** module) and the receipts database (using the **POS-terminal** module), and is displayed in the **Monitor** window.

The **Titles search** module allows searching the titles database, and the **Receipts search** module allows searching the receipts database. The titles and receipts databases are stored in the folder specified during the MS SQL Server setup;. For information please visit: <http://www.microsoft.com>.

The video archive is stored in the folder specified during the Intellect (base) software setup. For further information please refer to the *Intellect Software Package: The Administrator's Guide* document.

The POS-Intellect software functionality is specified in the **intellect.sec** key file of the *Intellect (base)* software platform; please refer to the *Intellect Software Package: The Administrator's Guide* document.

4 Using the *POS-Intellect* software system

4.1 Starting and closing the system

Prior to starting the system, please check the working condition of all hardware components – connections, cameras, etc.

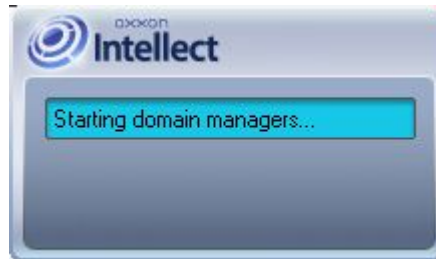


Figure 4.1-1 Starting the system

The system can be started using one of the following methods (Figure 4.1-1):


1. automatically – the system starts automatically after the operating system boots up;
2. manually – to start the system manually, in the **Start** menu select **Programs**, then **Intellect**, then **Client Workstation**, or use the corresponding shortcut on the Desktop.

System startup may be password protected. In this case, enter your password to start the system (Figure 4.1-2).



Figure 4.1-2 Password confirmation window

To shut down the system, do the following:

1. Point the mouse to the upper right corner of the screen, the main control panel will open.
2. Click the  icon on the panel.
3. Select **Shutdown** in the menu that opens.

The shutdown process will start (Figure 4.1-3), the password will be required if set (Figure 4.1-2).

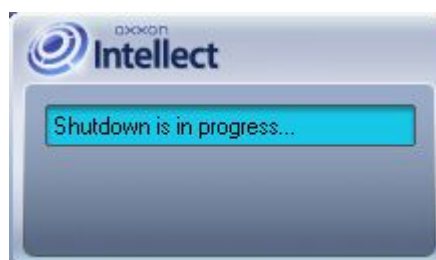


Figure 4.1-3 Shutting the system down

Note. The system can be set up to forbid the shut down. Then, the Shutdown item is not present in the menu.

4.2 Using the Monitor window

4.2.1 General information

The **Monitor** window is used for simultaneous real-time viewing or recording of video images received from the camera and the receipt contents.

4.2.2 Viewing video and receipt contents

The **Monitor** is used for simultaneous real-time viewing of video images and receipt contents.

Video images are displayed in video tiles, while the receipt details are superimposed over the video image (Figure 4.2-1).



Figure 4.2-1 Viewing video and receipt contents

Note. Please refer to the Intellect: Operator's Guide document for detailed description of Monitor usage.

4.2.3 Recording video and receipt contents

The monitor is also used for recording video images and receipt contents.

The video images containing the receipt contents superimposed are saved to the videosever archive (Figure 4.2-2).



Figure 4.2-2 Video image superimposed by the receipt contents

Note. Please refer to the *Intellect: Operator's Guide* document for detailed description of the Monitor usage.

4.3 Using the Titles search window

4.3.1 General information

The **Titles search** window is used to query the titles database.

4.3.2 Creating a query


Create a query before you start searching.

Enter the words or phrases to be searched for in the **Search text** field (Figure 4.3-1).

Figure 4.3-1 Entering the search text

Note. To use multiple search criteria (words or phrases), use the following logic operators:

1. **AND** – to find **ALL** words in the phrase
2. **OR** – to find at least **ONE** of the words in the phrase

Click the  button to introduce a logic operator in the search text (Figure 4.3-2). A search query can contain several logic operators of the same type: **AND** or **OR** (Figure 4.3-3).

Search substring:
COFFEE

Period from: 7/30/2009 11:59:59 PM
to: 8/6/2009 11:59:59 PM

Find
Cancel

Figure 4.3-6 Starting the search process

The search status (**Query executing...**) is displayed in the **Additional info** column for all selected databases (Figure 4.3-7).

Titles	State	Additional info	Total rec...
<input checked="" type="checkbox"/> Titles database 1	Connectio...	Query executing...	
<input checked="" type="checkbox"/> Titles database 2	Connectio...	Query executing...	

Figure 4.3-7 Search progress

To stop searching at any time, click the **Cancel** button (Figure 4.3-8).

Search substring:
choc AND vernel

Period from: 8/2/2009 11:59:59 PM
to: 8/9/2009 11:59:59 PM

Find
Cancel

Figure 4.3-8 Search cancellation

The search process stops when all selected titles databases are processed, i.e. the **Additional info** column reads **Search complete** for all selected titles databases. The number of found records for each titles database will be displayed in the **Records found** column of the titles database status table, while the list of all found transactions will be displayed in the search results table (Figure 4.3-9).

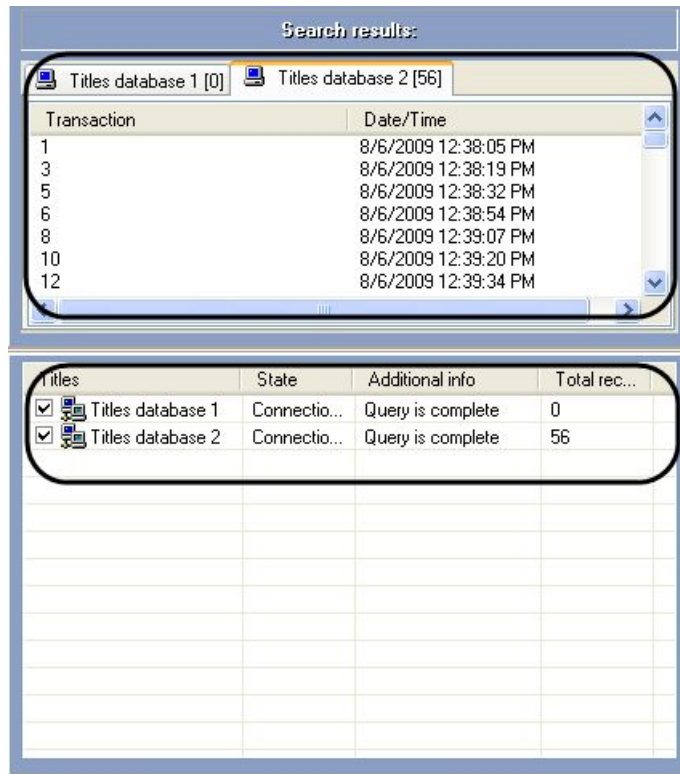


Figure 4.3-9 Search complete

4.3.4 Viewing search results

Search results are grouped by titles database and by transaction.

To view search results, select the tab of a titles database, then select a transaction in the search results table.

The contents of the desired receipt will be displayed in the **Titles** table (Figure 4.3-10). The search text, or the whole line containing the search text, will be highlighted.

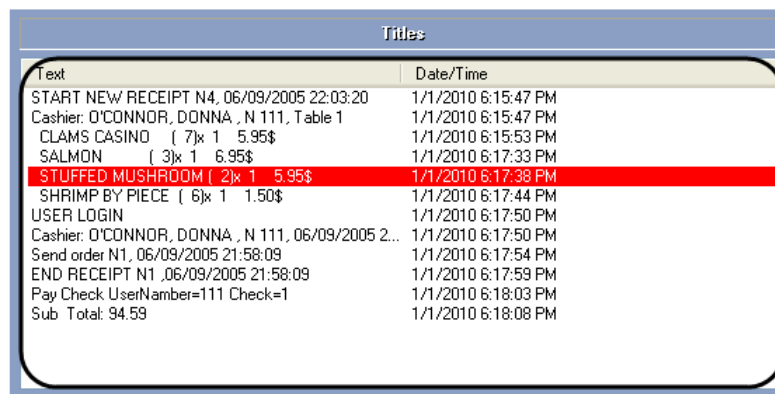


Figure 4.3-10 Search results (receipt contents)

The video fragment linked to the selected transaction will be displayed in the video search results area (Figure 4.3-11).



Figure 4.3-11 Search results (video)

4.3.5 Printing search results

Search results, including the video frame screenshot, can be printed out and exported to general formats.

To print search results, click the **Print** button (Figure 4.3-12)

Note. The Print button may be absent depending on the system setup.



Figure 4.3-12 Printing search results

The search results report will be displayed in a new window (Figure 4.3-13).

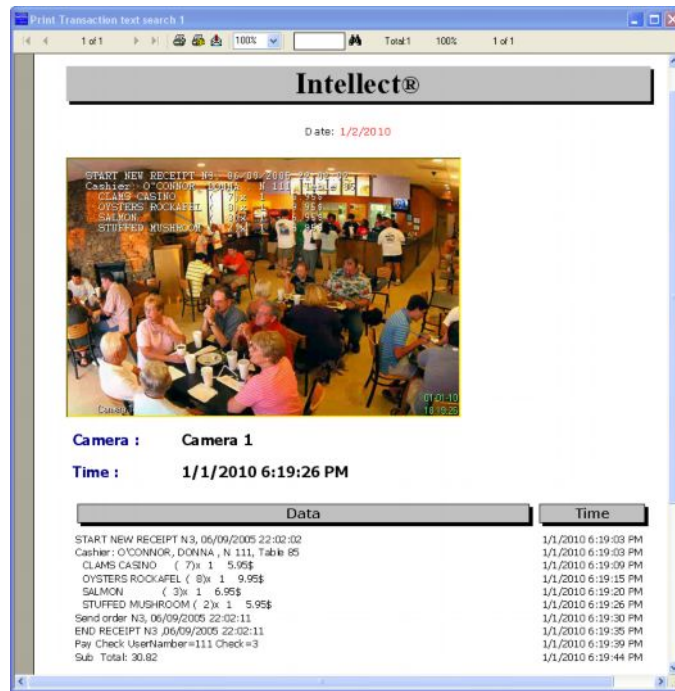


Figure 4.3-13 Search results report

Note. Please refer to the Intellect: Operator's Guide document for a detailed description of how to create reports.

4.3.6 Changing the sizes of interface elements

The user can change positions of the interface elements in the **Titles search** window.

Note. Availability of this function depends on system setup.

To change mutual positions of window elements, drag the element separators using the mouse (Figure 4.3-14, Figure 4.3-15, Figure 4.3-16)

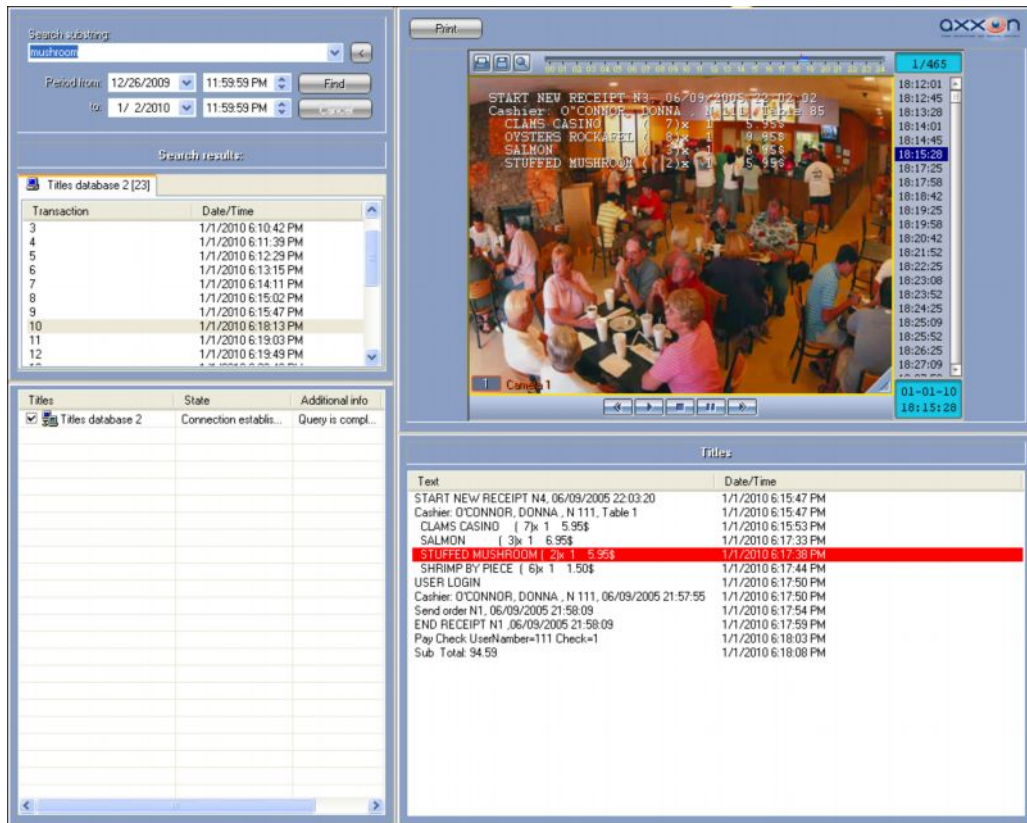


Figure 4.3-14 Changing the window layout (initial layout)

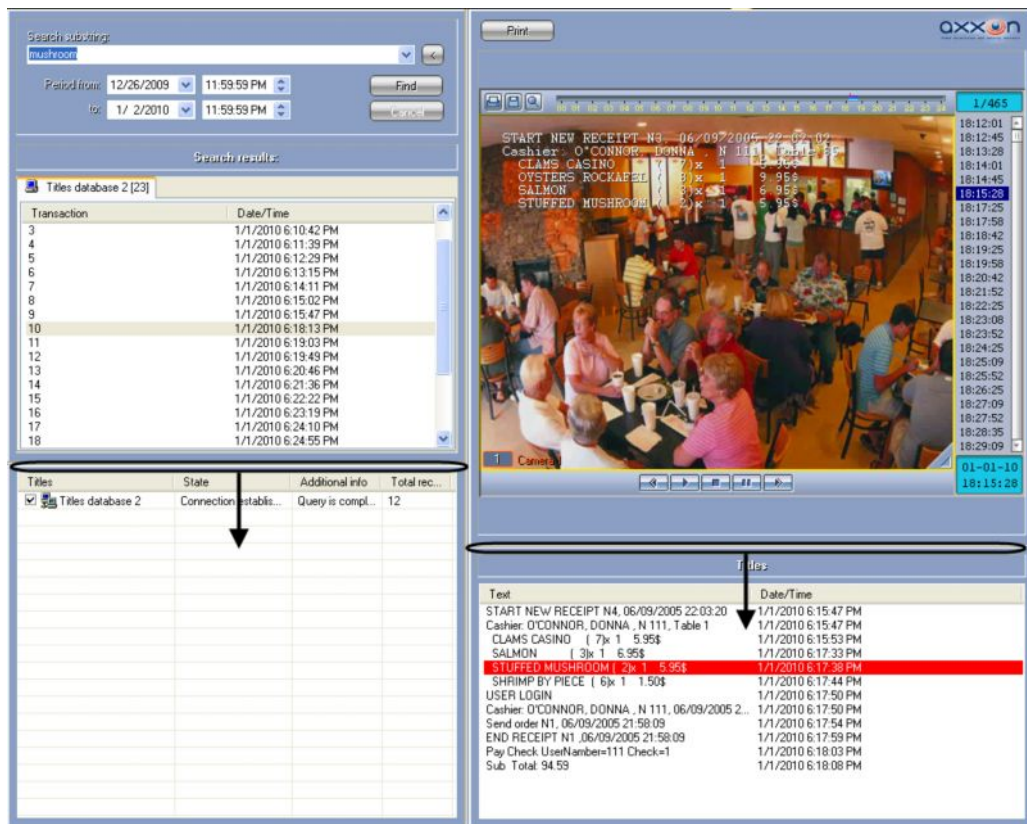


Figure 4.3-15 Changing the window layout (vertical shift)

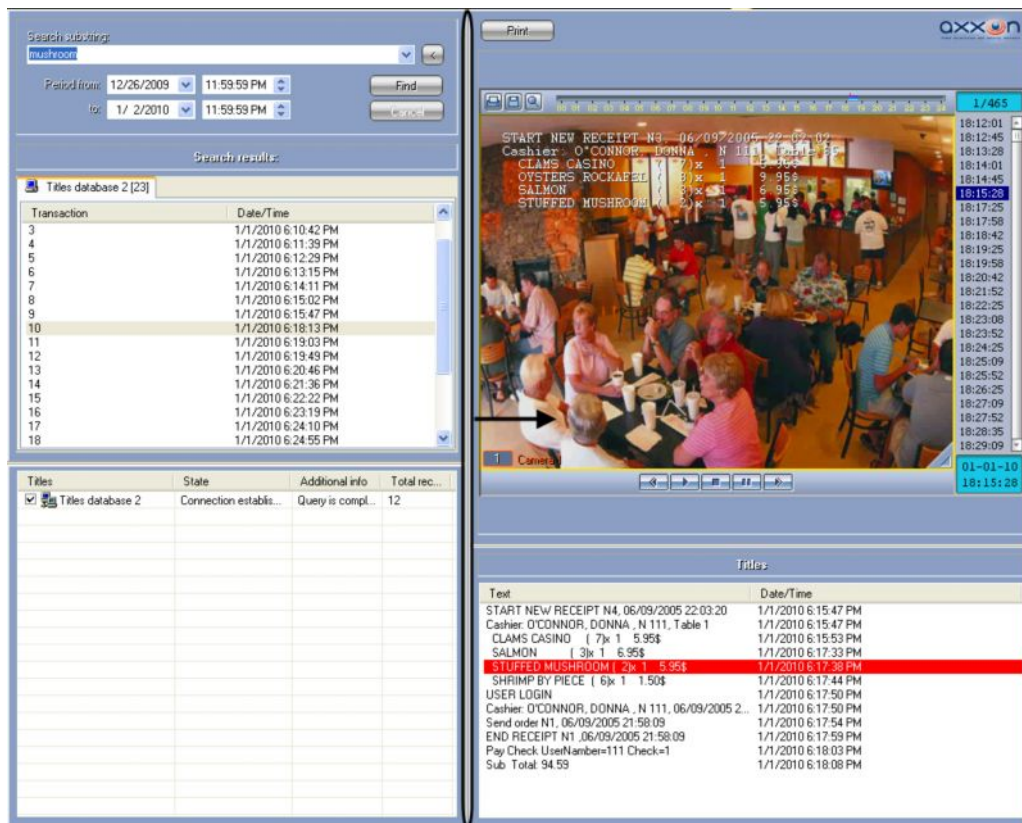


Figure 4.3-16 Changing the window layout (horizontal shift)

4.4 Using the Receipts search window

4.4.1 General information

The **Receipts search** window is used to search the receipts database.

4.4.2 Creating a query

Create a query before starting the search.

Select the report type in the **Query list** drop-down list (Figure 4.4-1)

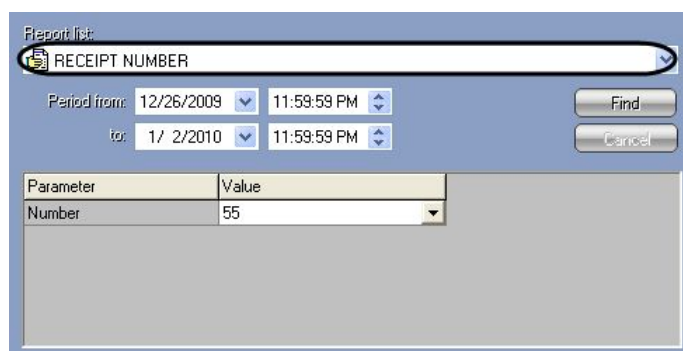


Figure 4.4-1 Selecting the query type

Each query type has its own set of parameters (Figure 4.4-2) which is displayed when the query type is selected (Figure 4.4-1).

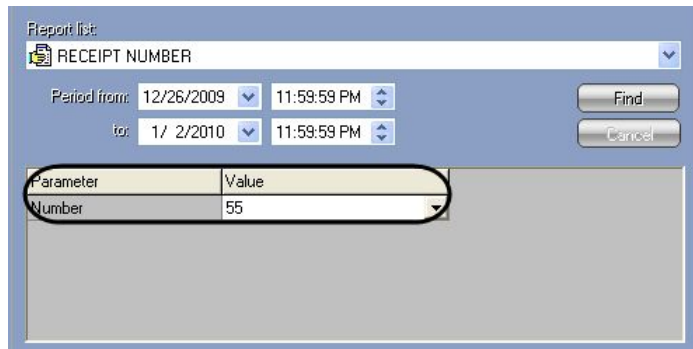


Figure 4.4-2 Setting query parameters

Note. Some queries, for example, the List of all queries, have no parameters.

Enter the date/time interval of the receipts to be searched for in the **From** and **To** fields (Figure 4.4-3)

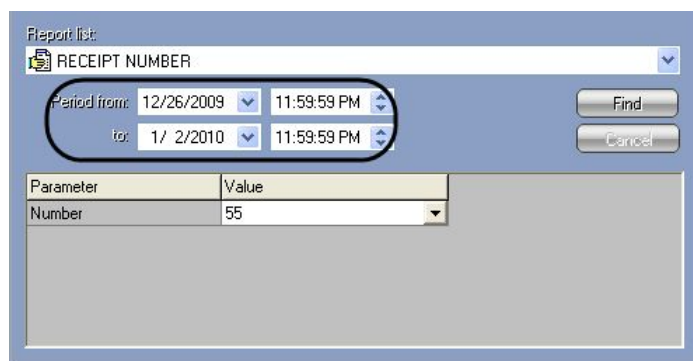


Figure 4.4-3 Specifying the date/time interval

4.4.3 Searching the receipts database

Before starting the search, select the POS-terminals to search in by checking the appropriate checkboxes in the table below (Figure 4.4-4).

POS	State	Addition...	Total rec...
<input checked="" type="checkbox"/> PD...	Connectio...	Query is c...	0

Figure 4.4-4 Selecting the POS-terminals

Click the **Search** button to start searching (Figure 4.4-5).

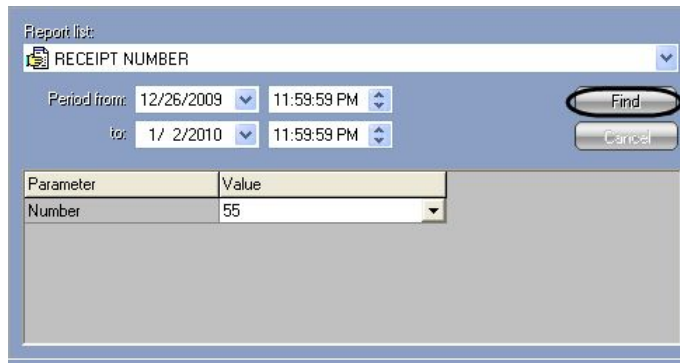


Figure 4.4-5 Starting the search process

The search status (**Query executing...**) is displayed in the **Additional info** column for all selected POS-terminals (Figure 4.4-6).

POS	State	Additional info	Total rec...
<input checked="" type="checkbox"/> POS-termi...	Connectio...	Query executing...	

Figure 4.4-6 Search progress

To stop searching at any time, click the **Cancel** button (Figure 4.4-7).

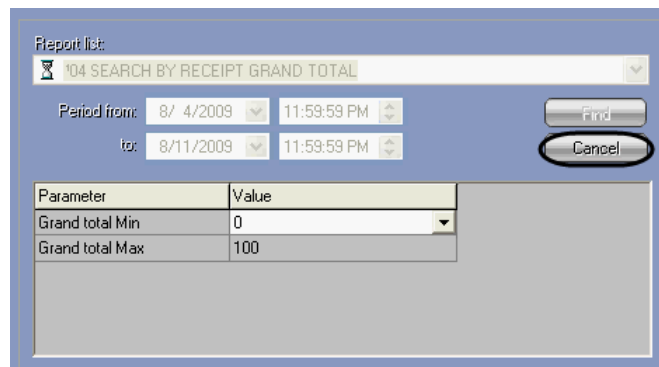


Figure 4.4-7 Search cancellation

The search process stops when all selected POS-terminals are processed, i.e. the **Additional info** column reads **Search complete** for all selected POS-terminals. The number of found records for each POS-terminal will be displayed in the **Records found** column of the POS-terminal status table, while the list of all found transactions will be displayed in the search results table (Figure 4.4-8).

Search results:

ID	POS	Receipt	Date/Time
2	1	55	1/2/2010 11:42:36
4	1	55	1/2/2010 11:43:06

POS	State	Additional info	Total rec...
<input checked="" type="checkbox"/> POS-terminal 1	Connection established	Query is complete	1

Figure 4.4-8 Search complete

4.4.4 Viewing search results

Search results are grouped by POS-terminal and by transaction.

To view search results, select the tab of a POS-terminal, then select a transaction in the search results table. The number of the selected POS-terminal and the date/time of the selected transaction are displayed in the search results header (Figure 4.4-9).



Figure 4.4-9 Search results header (POS-terminal number, transaction date/time)

The contents of the selected receipt in text format will be displayed in the search results table (Figure 4.4-10).

Item	Count	Total	Date/Time
OYSTERS ROCKAFEL	1	9.95	1/2/2010 11:45:08 AM
SALMON	1	6.95	1/2/2010 11:45:14 AM
STUFFED MUSHROOM	1	5.95	1/2/2010 11:45:20 AM
SHRIMP BY PIECE	1	1.5	1/2/2010 11:45:25 AM
	1		1/2/2010 11:45:35 AM

Figure 4.4-10 Search results (receipt contents)

The video fragment linked to the selected transaction will be displayed in the video search results area (Figure 4.4-11).

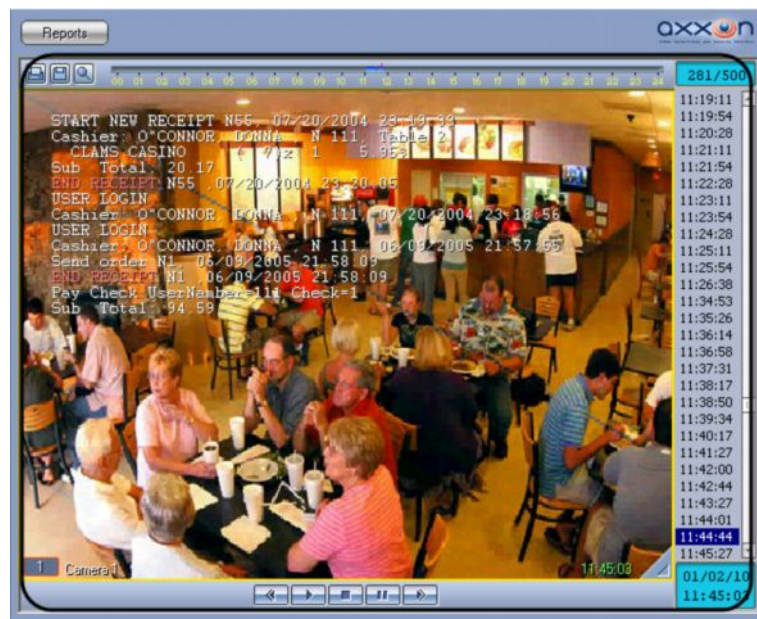


Figure 4.4-11 Search results (video)

To view the results for a specific titles database, select the titles database in the drop-down list (Figure 4.4-12).



Figure 4.4-12 Search results (titles database selection)

4.4.5 Printing search results

Search results, including the video frame screenshot, can be printed out.

To print search results, click the **Print** button (Figure 4.4-13)

Note. The Print button may be absent depending on the system setup.



Figure 4.4-13 Printing search results

Select the report type in the dialog box that opens (Figure 4.4-14) to see the report preview in the right pane, then click **OK**.

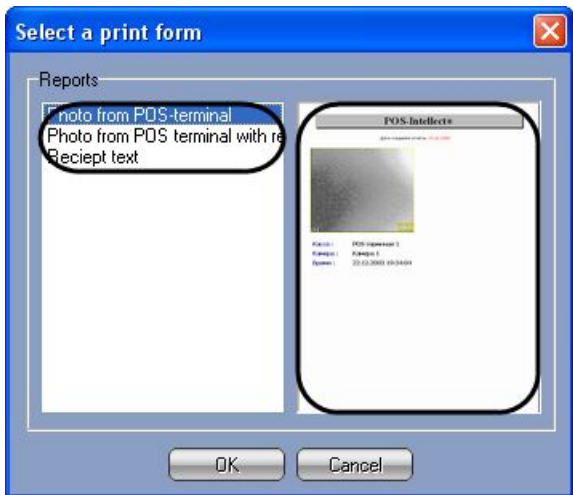


Figure 4.4-14 Selecting the report type

The report will be displayed in a new window (Figure 4.4-15).

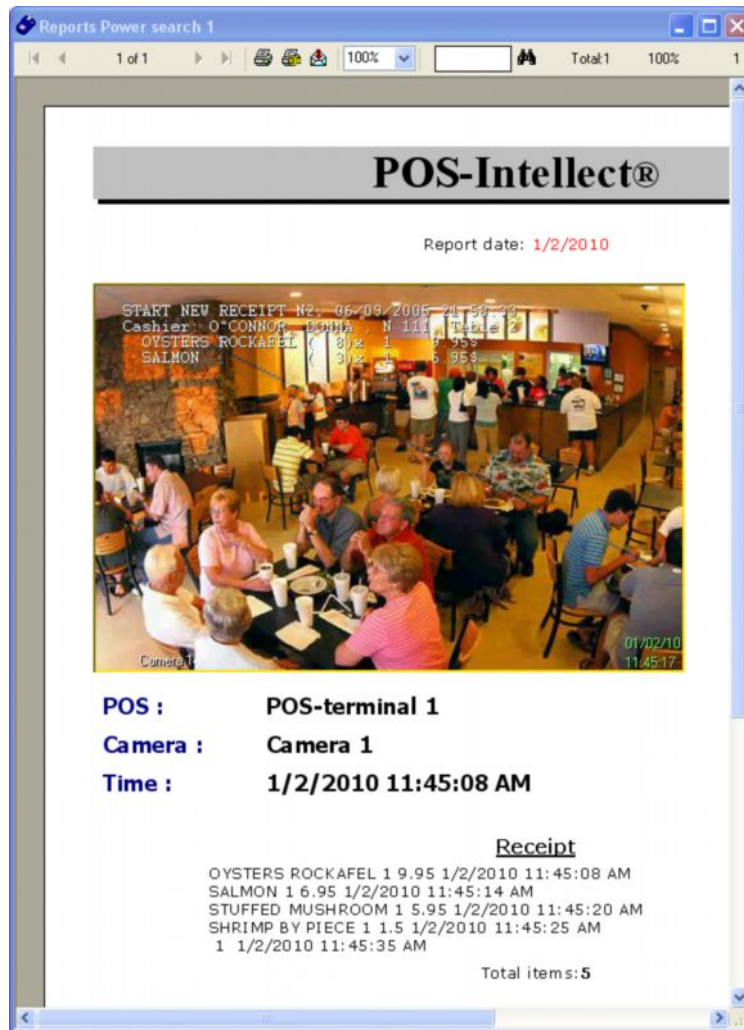


Figure 4.4-15 Search results report

Note. Please refer to the Intellect: Operator's Guide document for a detailed description of how to handle reports.

4.4.6 Changing the window layout

The user can change position of the elements in the **Receipts search** window.

Note. Availability of this function depends on system setup.

To change mutual position of window elements, drag the element separators using the mouse (Figure 4.4-16, Figure 4.4-17, Figure 4.4-18)

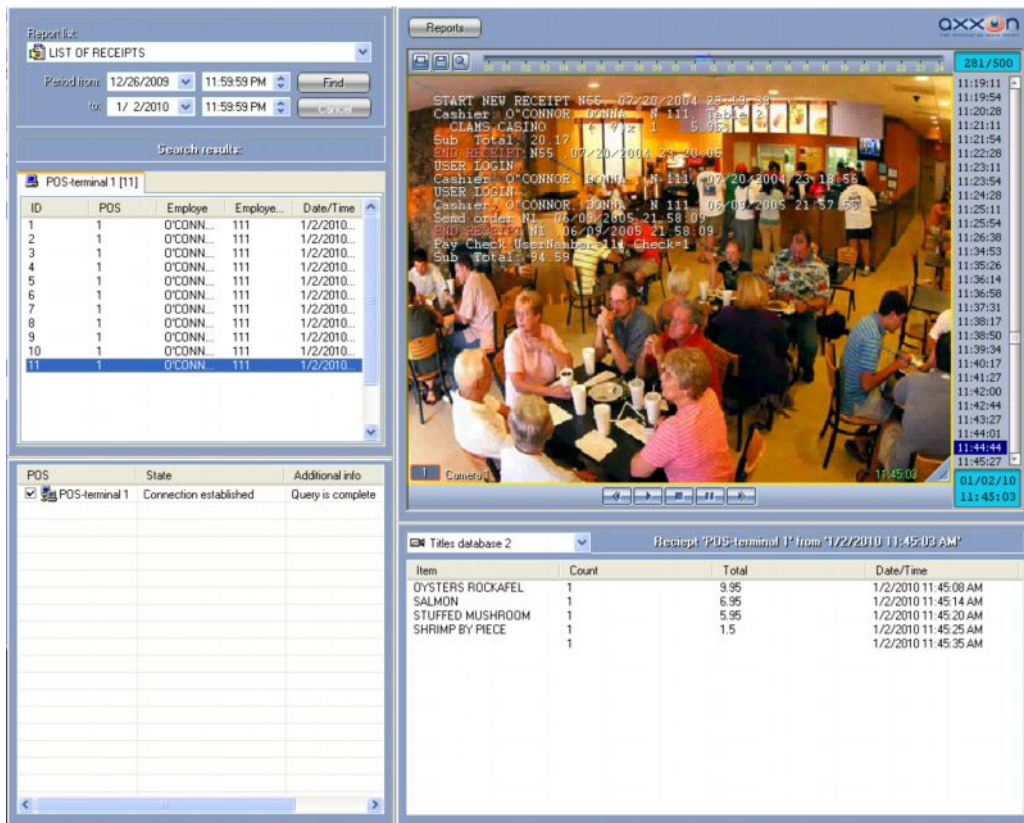


Figure 4.4-16 Changing the window layout (initial layout)

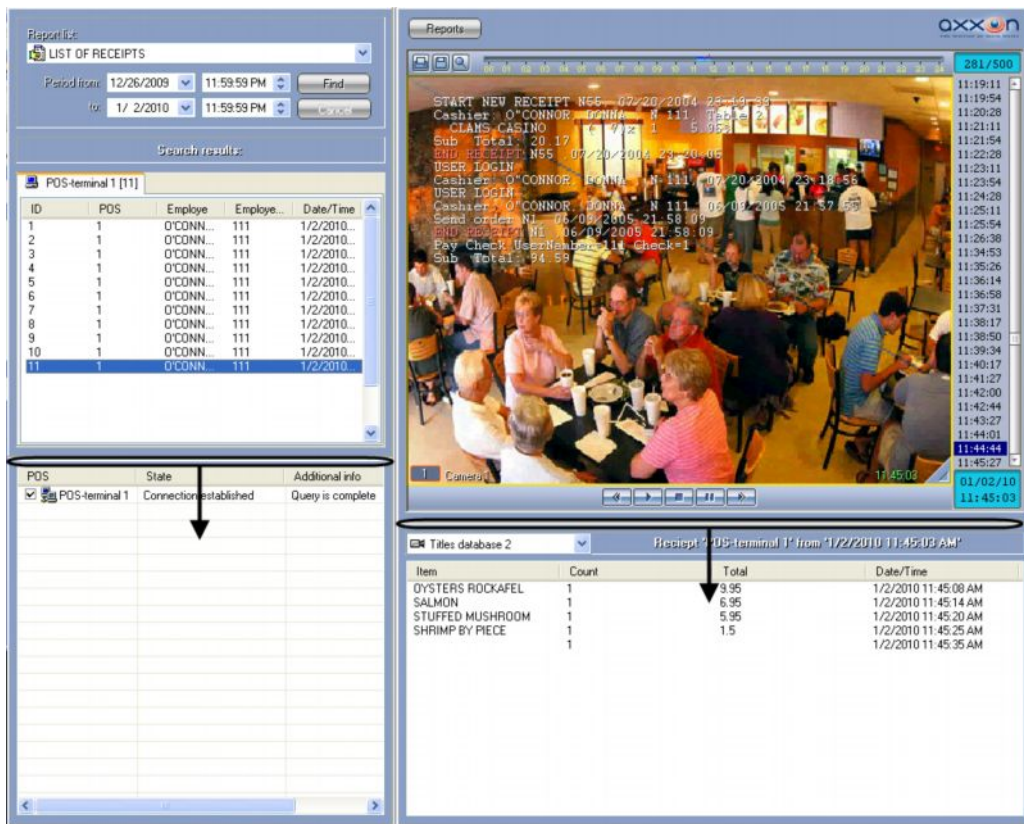


Figure 4.4-17 Changing the window layout (vertical shift)

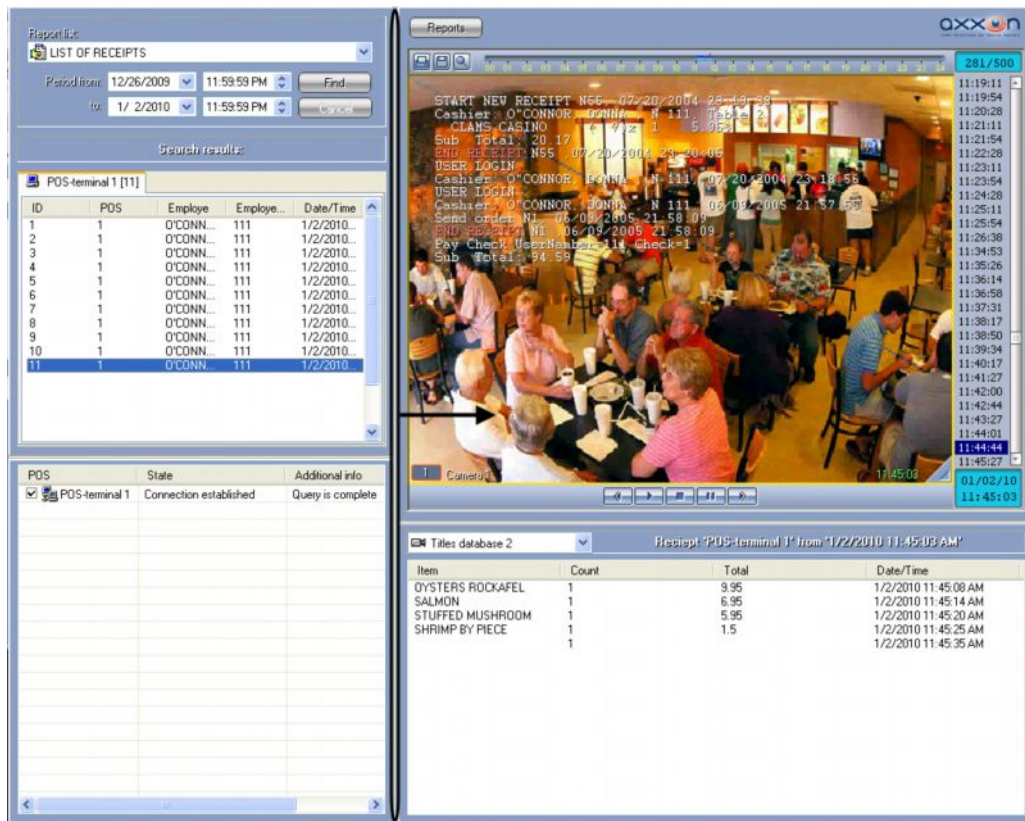


Figure 4.4-18 Changing the window layout (horizontal shift)

5 Description of the POS-Intellect user interface


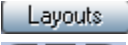


5.1 The Monitor window

Figure 5.1-1 shows the overall view of the Monitor window.

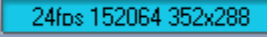



Figure 5.1-1 The Monitor interface window

The Monitor contains video tiles and the toolbar which includes the following elements:

1. The  buttons allow switching the number of video tiles displayed in the Monitor.
2. The  button allows controlling Monitor layouts.
3. The  buttons allow to switch between video tiles.
4. The  field displays current date and time.

Each video tile includes the video image area superimposed with the titles display area. Besides, a functional menu opens for each video tile to allow you to access various system functions.

When one of the Debug 1, 2, 3, modes is enabled, current video characteristics (FPS, Bitrate, Resolution) are displayed in the field «  ». If the Debug mode is disabled, current date and time are displayed in the field «  ».

To open the menu, click the camera number in the lower left corner of the video tile (Figure 5.1-2).

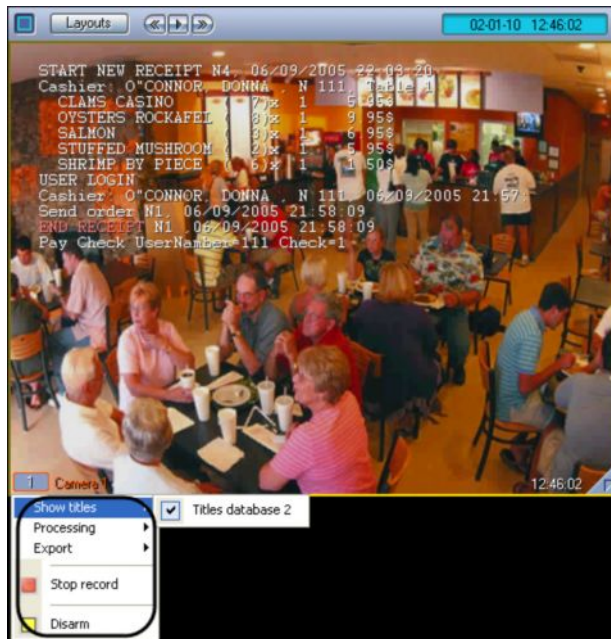


Figure 5.1-2 Video tile functional menu

Table 5.1-1 describes the keyboard shortcuts available for the Monitor and video tiles.

Table 5-1

Shortcut	Action	Description
0 .. 9 Numpad	Select current video tile	Numerals correspond to video tile numbers. To select a two-digit number, press two keys in quick succession.
F1 .. F8	Select the number of video tiles in the Monitor	F1 – 1 tile F2 – 4 tiles F3 – 9 tiles F4 – 16 tiles, etc.
Ctrl + R Ctrl + T	Video recording control	Ctrl + R – start recording Ctrl + T – stop recording
Shift + LeftClick/RightClick	Scale video image	Shift + LeftClick – zoom in Shift + RightClick – zoom out
Tab	Switch current tile to archive mode and back	Please refer to <i>the Intellect: Operator's Guide</i> document
Ctrl + "/" Ctrl + Spacebar Ctrl + * Left/Right	Archive playback control	Ctrl + "/" – play Ctrl + Spacebar – stop Ctrl + * – pause Left/Right – previous/next frame (in pause)

Shortcut	Action	Description
		mode)
Ctrl + A/D	Arm the camera	Ctrl + A – Arm the camera Ctrl + D – Disarm the camera
Ctrl + E/P	Individual frame operations	Ctrl + E – export (save) the frame Ctrl + P – print the frame
Ctrl + W	Increase image contrast	Set maximum contrast. Press the same shortcut to restore normal contrast.
Ctrl + S	Set camera mask	Ctrl + S – display the camera mask
Ctrl + H		Ctrl + H – hide the camera mask
		Please refer to <i>the Intellect: Operator's Guide</i> document

Note. Please refer to the *Intellect: Operator's Guide* document for a detailed description of the Monitor and video tiles .



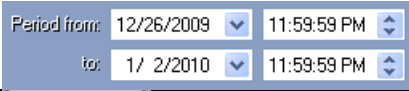


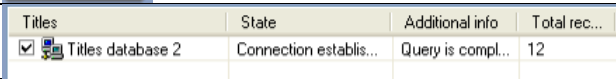
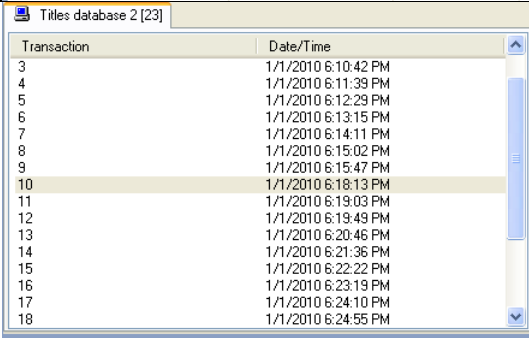
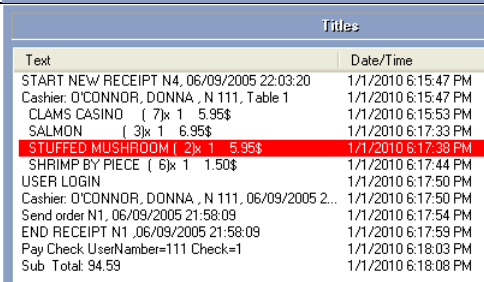
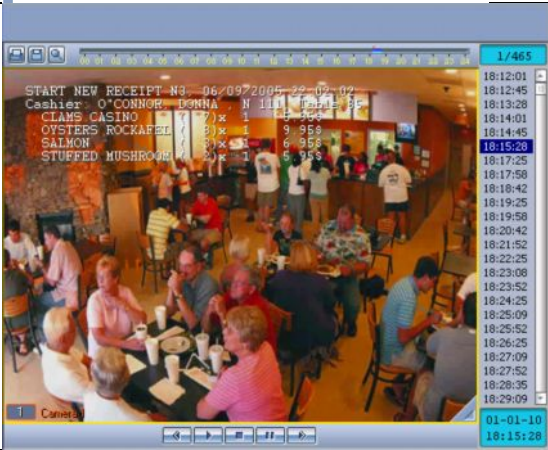

5.2 The Titles search window

Figure 5.2-1 shows the Titles search window.

Figure 5.2-1 The Titles search window

Table 5.2-1 describes the elements in the **Titles search** window.

Table 5-2

Element	Description																																		
	Enter the search text																																		
	Introduce AND or OR logic operators into the search text																																		
	Set time interval for the search																																		
	Start searching																																		
	Cancel the search																																		
 <table border="1"> <thead> <tr> <th>Titles</th> <th>State</th> <th>Additional info</th> <th>Total rec...</th> </tr> </thead> <tbody> <tr> <td><input checked="" type="checkbox"/> Titles database 2</td> <td>Connection establis...</td> <td>Query is compl...</td> <td>12</td> </tr> </tbody> </table>	Titles	State	Additional info	Total rec...	<input checked="" type="checkbox"/> Titles database 2	Connection establis...	Query is compl...	12	Titles database status																										
Titles	State	Additional info	Total rec...																																
<input checked="" type="checkbox"/> Titles database 2	Connection establis...	Query is compl...	12																																
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	Search results (video)																																		
	Print search results																																		

5.3 The Receipts search window

Figure 5.3-1 shows the Receipts search window.

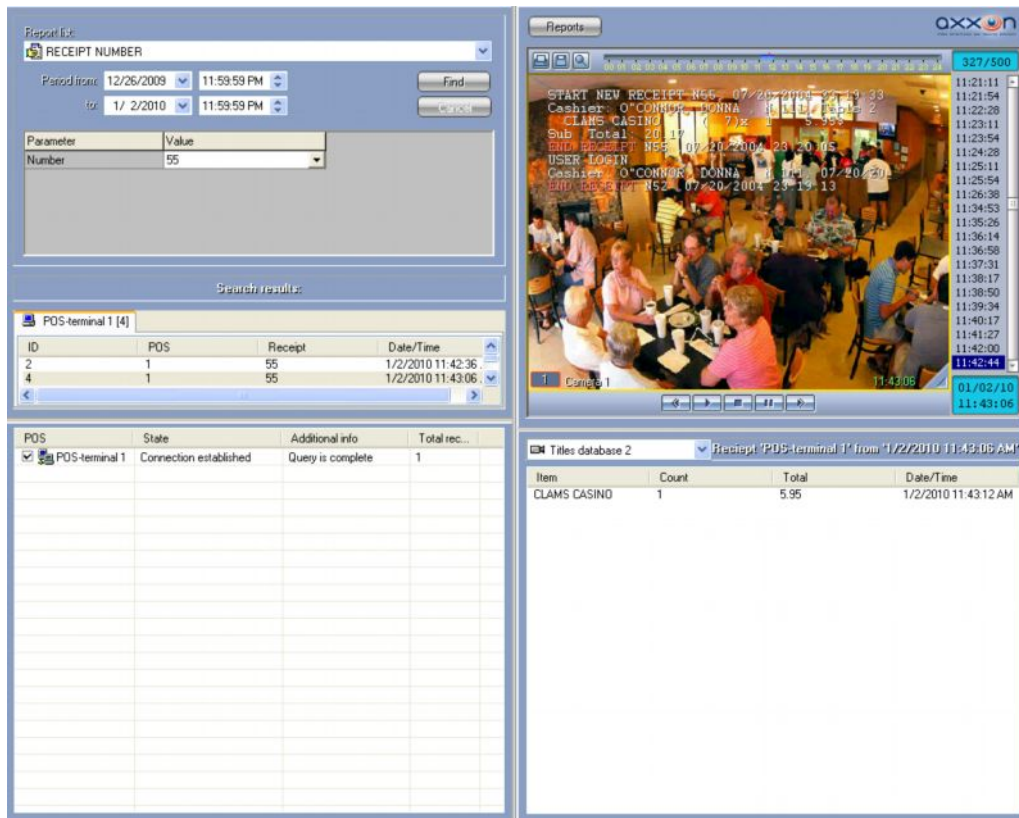
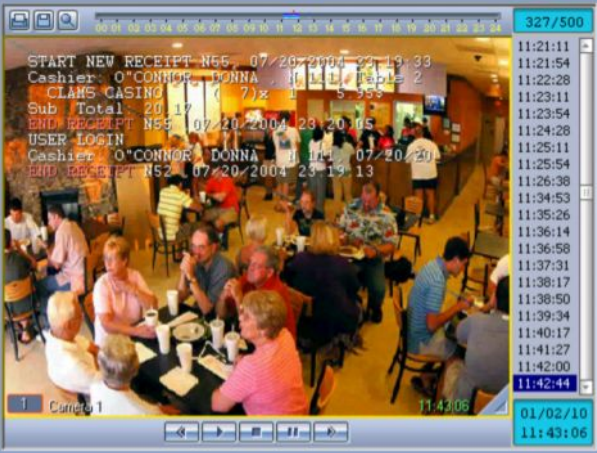


Figure 5.3-1 The Receipts search window

Table 5.3-1 describes the elements in the Receipts search window

Table 5-3

Element	Description
Report list: RECEIPT NUMBER	Select query type
Parameter Value Number 55	Specify search parameters
Period from: 12/26/2009 11:59:59 PM to: 1/2/2010 11:59:59 PM	Set time interval for the search
Find	Start searching
Cancel	Cancel the search
POS State Additional info Total rec... POS-terminal 1 Connection established Query is complete 1	POS-terminal status
POS-terminal 1 [4] ID POS Receipt Date/Time 2 1 55 1/2/2010 11:42:36 4 1 55 1/2/2010 11:43:06	Search results (transactions)
Titles database 2	Search results (titles database selection)
Receipt 'POS-terminal 1' from '1/2/2010 11:43:06 AM'	Search results (POS-terminal number, transaction date/time)
Item Count Total Date/Time CLAMS CASINO 1 5.95 1/2/2010 11:43:12 AM	Search results (receipt contents)

Element	Description
 <p>The screenshot shows a video recording of a restaurant interior. A terminal window is overlaid on the top left of the video, displaying the following text:</p> <pre> START NEW RECEIPT N55 07/20/2004 23:19:33 Cashier: O'CONNOR, DONNA 11:41:11 Table 2 CLAMS CASINO (7)x 1 5.95 Sub Total: 20.17 END RECEIPT N55 07/20/2004 23:20:05 USER LOGIN Cashier: O'CONNOR, DONNA 11:41:07/20/2004 END RECEIPT N52 07/20/2004 23:19:13 </pre> <p>On the right side of the video frame, a vertical timeline of timestamps is visible, ranging from 11:21:11 to 11:42:00. At the bottom of the video frame, there is a control bar with a 'Camera 1' label, a timestamp '11:42:06', and a date '01/02/10'. A '327/500' indicator is in the top right corner of the video frame.</p>	<p>Search results (video)</p>
<p>Reports</p>	<p>Print search results</p>