



Vi-POSCON User Guide

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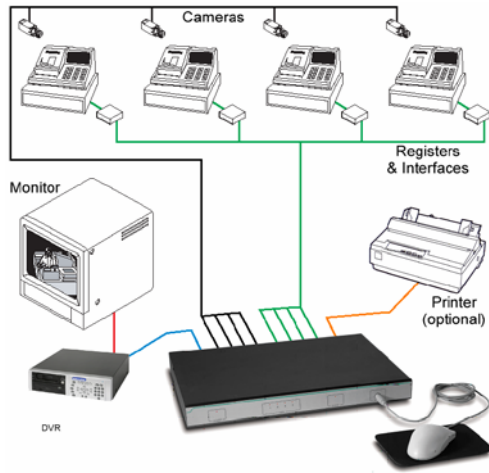
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Vi-POSCON



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CAUTIONS

CAUTION: For continued protection against risk of fire, replace only with the same type and rating of fuse.

CAUTION: Danger if battery is incorrectly replaced.

Replace only with the same or equivalent type recommended by the manufacturer. Dispose of batteries according to the manufacturer's instructions.

IMPORTANT!

PLEASE READ CAREFULLY AND SAVE PURCHASERS WHO INSTALL THIS DEVICE FOR USE BY OTHERS MUST LEAVE THIS DOCUMENT WITH THE USER.

PRECAUTIONS: Check that the operating voltage as indicated on the type plate [label] of the Power Supply Unit [PSU] is identical with the voltage of your local mains power supply.

LOCATION: For pluggable equipment [which is the PSU], the socket outlet shall be installed near the equipment, [the PSU], and shall be easily accessible.

Do not expose the VI-POSCON or the PSU to humidity, rain or excessive heat; they are for use in dry areas only.

SAFETY: The Mains Plug is considered to be the means of disconnecting primary power. To isolate the equipment fully, ensure that the Mains Plug is removed.

All Video, Data and Alarm switching signal connections must be to SELV* levels only, in accordance with EN 6095 and UL 1950 3rd Edition.

INSTALLATION: Both the VI-POSCON and the PSU are designed to be free standing on a horizontal surface.

NOTES:

*SELV = Safety Extra Low Voltage.

PSU = Power Supply Unit.

About this Guide

This VI-POSCON User's Guide provides the information you need to set up and use your VI-POSCON System. It describes the VI-POSCON features and explains, step-by-step, the tasks you will perform when using the VI-POSCON System. It also serves as a continuing reference as you use your VI-POSCON System.

The guide is written to help you use VI-POSCON to monitor electronic point-of-sale (cash register) activity at a store. It does not assume that you are an experienced computer operator.

After reading this guide, you will be able to set up the VI-POSCON System, use the system to document activity throughout the store, and review that activity at your leisure.

Changes from Prior Version

(Revision bars in margins identify significant changes.)

- Remove all references to User Event.

Text Conventions

This guide uses text in different ways to identify different kinds of information.

<i>Italics</i>	Used for terms that are specific to VI-POSCON and for text that requires emphasis; also used for document titles.
Monospace and monospace	Used for names of windows and menus, and any information that appears on a window.
Note	A note calls attention to any item of information that may be of special importance.

Related Documents

Other documents that provide information about VI-POSCON.

- The *VI-POSCON Installation Guide (IDB-1594-01)*, provides detailed procedures for installing, configuring, and troubleshooting your VI-POSCON System

Ordering Documents

If you need additional copies of the VI-POSCON User's Guide, or any other document that will help you use your VI-POSCON Plus System, contact your local Sales Representative.

The document number for this guide is:

Pos603a.doc

If you need assistance, call...

- Videoswitch Tel: 01252-851510
- Videoswitch Fax: 01252-851296
- Videoswitch Email: sales@videoswitch.co.uk

What is VI-POSCON?

The VI-POSCON System is a point-of-sale exception monitoring device that connects to your store's cash registers and camera surveillance system. The VI-POSCON System is designed for stores with up to four registers. VI-POSCON lets you monitor EPoS (Electronic Point-of-Sale or cash register) terminal activity to discover and document suspicious sales transactions. It does this by monitoring the register data for sales transactions (known as *events*) that you have designated as *exceptions*. When an *exception event* occurs, VI-POSCON documents the event by:

- Switching the VCR or DVR from time-lapse to real-time recording to record the register scene.
- Displaying the register scene on a video monitor in a back room or office.
- Highlighting the exception on the register receipt that overlays the video scene.
- Generating a one-line printout that summarizes the exception event (if the Audit Trail option is enabled).
- Storing exception event information for the system reports.
- By sounding an alarm tone.
- Changes the relevant front panel Data LED from flashing green to steady red for the duration of the event.
- By lighting the red EVENT LED when the first event is logged. (The LED is not cleared until the event is reviewed.)

After the system documents an exception, it:

- Returns to routine surveillance, monitoring the register data according the surveillance parameters you defined.
- Switches the VCR or DVR from real-time to time-lapse recording.
- Changes the relevant front panel Data LED from steady red to flashing green.

The VI-POSCON System stores exception event data in its memory for generating its two reports. The Detailed Event Report provides complete details of the exception events. The Event Frequency Report totals the number of exception events occurring per hour. You can display and print both reports.

VI-POSCON Terms

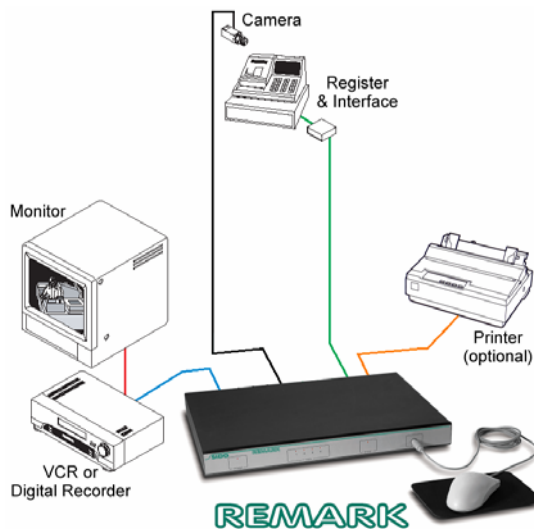
The following terms are used to explain how the VI-POSCON System works.

Cash register or till	The electronic cash register system used to execute sales related transactions. Also known as EPoS (electronic point-of-sale) or ECR (electronic cash register).
click	To quickly press and release one of the buttons on the mouse. Clicking selects an item on a VI-POSCON menu.
cursor	A reverse-video box that appears on the video monitor. It appears in a VI-POSCON window to indicate the currently selected item or text.
ECR	An abbreviation for electronic cash register. Also referred to as register or till.
EPoS or POS	An acronym for electronic point-of-sale. Also referred to as register or till.
exception event	A record of some activity – either at the cash register or from an external device – that you have identified to be an exception to normal transactions. A void or refund can be an exception event.
external event (alarm)	An event that occurs when an external device connected to the VI-POSCON controller is activated. An example of an external device is a door contact.
highlight	To move the cursor to an item in a menu. You highlight items in a menu or data on a screen to identify action for the system to take or data you need. The highlighted item is displayed in reverse-video.
menu	A list of choices displayed on a screen. The choices are menu items.
Surveillance mode (event monitoring)	The mode in which the system monitors cash register activities, reports external events, and displays camera video on the monitor.
Time-lapse VCR or DVR	A 24-hour VCR or DVR that switches from time-lapse recording to real-time recording in response to an exception event.
Transaction	An action, such as the sale of merchandise, taken at a cash register.
Window	An area on the video monitor

	that displays information.
24-hour clock	A method to specify time where hours have values between 1 and 24, rather than between 1 and 12. You do not provide AM and PM notation. For example: <u>Specify</u> <u>For</u> 00:00 Starting at midnight 06:10 6:10 AM 12:00 Noon 16:45 4:45 PM 24:00 Ending at midnight

VI-POSCON Equipment

The following figure shows the components of a typical VI-POSCON System installation for one register.

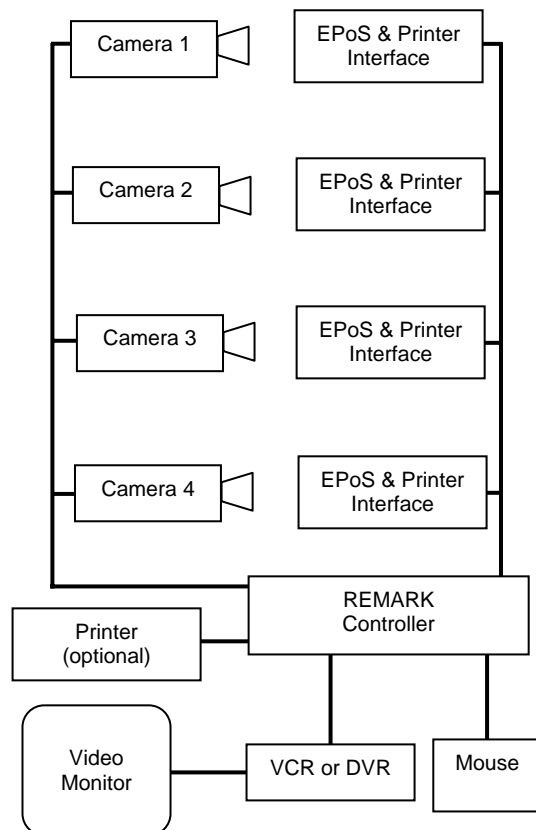


Although every store's system configuration differs slightly, the following components make up a typical minimum VI-POSCON installation.

Camera	Provides video of the register scene or, if using a programmable dome, other locations in the store.
Cash register	The EPoS or electronic cash register system used to execute sales related transactions. In this guide, the term register is used interchangeably with EPoS.
Monitor	Displays the live register scene, an overlay of the register receipt on the register scene, and VI-POSCON menus.
Mouse	A pointing device used to control and program the VI-POSCON

	System.
VI-POSCON Controller	Controls the VI-POSCON System for up to four registers and cameras, including the switching of a time-lapse VCR or DVR. It can also control the monitoring of up to four external switch events (alarms), such as door switch or panic button.
Printer Port Interface (PPI)	Connects a register to the VI-POSCON controller; it converts the register data into VI-POSCON-understandable data.
VCR or DVR	Records (in time-lapse mode) the register scene. When an exception occurs, the VCR or DVR records (in real-time mode) the register scene along with an overlay of the register receipt.
Printer (optional)	Prints a record of exception events as they occur, and prints summary event reports

If you want to monitor more than a single register, additional components are required. The following illustration shows the maximum VI-POSCON System configuration with one VCR or DVR and monitor. You can connect up to four registers, cameras, VCR's, and monitors to the VI-POSCON controller. A Printer Interface is required for each register you want to monitor.



The VI-POSCON Controller Front Panel

The following is an illustration and description of the VI-POSCON front panel indicators and connector.



POWER – This red LED, when lit, indicates that the unit is powered on.

DATA – These four tri-colour LEDs are linked to the four data input ports on the rear panel. These LEDs flash green as data is received from their registers; they turn steady red when an Event occurs, reverting to flashing green once the period of time defined for the event has lapsed. The LEDs are not lit when the registers are not sending data.

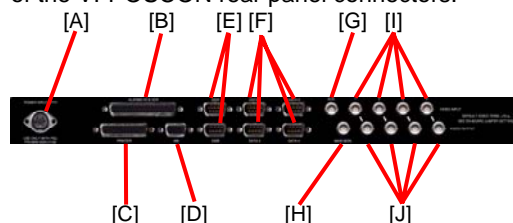
EVENT – This red LED lights when the first event is logged into VI-POSCON memory and remains lit until the user has reviewed that event and all other subsequent logged events.

On system power-up, the DATA and EVENT LEDs momentarily light red.

MOUSE – This is a mini-DIN socket for connecting a PS/2 mouse to the VI-POSCON System. A tick-mark indicates the location of the connector's key.

VI-POSCON Rear Panel

The following is an illustration and description of the VI-POSCON rear panel connectors.



[A] Power Input – a DIN connector for the power supply unit (PSU).

[B] Alarms I/O & VCR/DVR – a 37-pin D-type female connector for alarm inputs, relay outputs, and VCR or DVR.

[C] Printer – a 25-pin D-type female connector for connecting the VI-POSCON printer.

[D] 485 – a 9-pin D-type RS-232/RS-485 female connector for future use (to allow the connection of multiple VI-POSCON controllers).

[E] 232A and 232B – two 9-pin D-type RS-232/RS-485 male connectors for future use.

[F] Data1 through Data4 – four 9-pin D-type RS-232/RS-485 male connectors for input from the Printer Port Interfaces. (The Printer Port Interfaces can output data in either RS-232 or RS-485.)

[G] AUX – a BNC connector for future use.

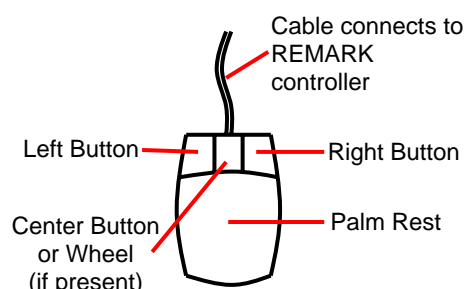
[H] Main Mon. – a BNC connector for the main monitor when VI-POSCON is configured as a standalone system (more than one camera/register input with output to a single VCR/monitor).

[I] Video Input (1 through 4) – four BNC connectors for camera input.

[J] Video Output (1 through 4) – four BNC connectors for video output. The video output signals include the text overlay from the EPoS.

Using the Mouse

The VI-POSCON System lets you make changes to the system operation through menus displayed on the monitor. You use a pointing device, or mouse, to display the menus and to make the changes you want. A VI-POSCON mouse looks similar to this:



The Customer Engineer who installs your VI-POSCON System connects the mouse to the VI-POSCON controller, and uses the mouse to initially set up your system. You must use the mouse to perform all menu operations.

The mouse buttons perform the following functions:

Left button	In event monitoring, click this button to display the ENTER PASSWORD screen.
Right button	In the MANAGER MENU, click this button to resume event monitoring. In any other menu, click this button to return to the previous menu.
Center button or wheel	This button or wheel, if present, is not used.

Think of the left mouse button as an "ENTER" button and the right mouse button as an "EXIT" button.

Note: When the monitor displays VI-POSCON menus:

- The system suspends event monitoring. Exception and external events are not displayed or recorded.
- If a menu remains idle for 15 seconds, the system returns to a previous menu (if one exists) or to event monitoring.

To use the mouse:

1. Place the mouse on a clean, flat surface near the monitor – for example, on a desk or counter top. Use a mouse pad for best performance.
2. Click the left button. A window appears on the monitor. The cursor appears as a reverse-video box inside the window. The item on which the cursor appears is called *highlighted*, to indicate that it is the current selection.
3. To highlight other items, slide the mouse forward, back, right, and left across the surface.
4. When the item you want is highlighted, click the left mouse button. This displays either another menu or an information window.
5. To close all windows, click the right mouse button until the system resumes event monitoring.

Using the VI-POSCON System

Starting the VI-POSCON System

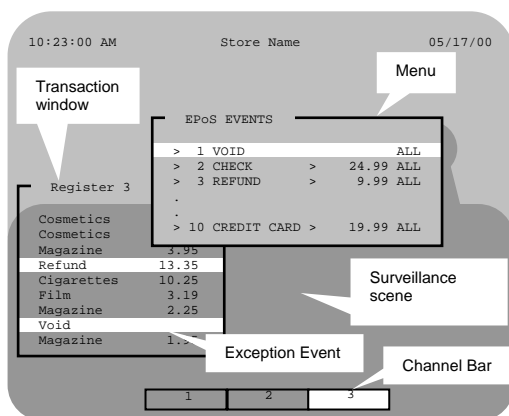
Ensure that all system components are powered on, including the camera(s).

After power is applied to the VI-POSCON System, the monitor displays the surveillance scene and the Time, Name, and Date windows (near the top of the screen) and the Transaction window.

The VI-POSCON System is now ready to use.

Understanding the VI-POSCON Display

The VI-POSCON monitor has a display that looks similar to the following figure:



The following is an explanation of each area of the display:

Surveillance scene	Shows the area of the store where the camera is aimed.
External event (alarm) window	Displays the Alarm Identifier in place of the Store Name when a monitored device – such as a door contact or a panic button – is activated. The alarm window remains displayed for the duration of the event.
Time, Name, and Date windows	Displays the current time, the store name, and the current date.
Transaction window	Displays register transactions as they occur, and highlights exception events.
Menu window	Lets you access information and select tasks that change how the system operates. Menus are not displayed during normal event monitoring.
Channel bar	Displays, highlighted, the identity of the camera whose video scene is displayed on the monitor.

The system continuously displays the surveillance scene, the Time, Name, and Date windows, and Transaction window. The External Event window appears only when an alarm (a monitored external device) is activated. You access the system menus only when you want to change how the system operates or when you want to generate an event report.

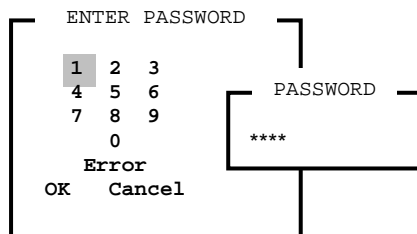
The Manager Menu

The VI-POSCON System operates in the surveillance mode until you need to define new events or update previously defined events. You use the system's Manager Menu to:

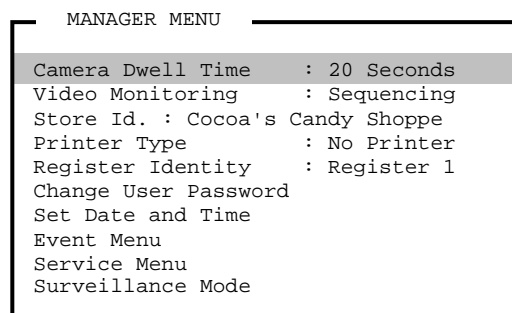
- Define, activate, and deactivate exception events and external events (alarms),
- View and print event reports,
- Set the system's time and date,
- Set the store and register identifiers,
- Set the camera dwell time, and
- Change passwords.

Accessing the Manager Menu

1. To access the Manager Menu, click the left mouse button. The ENTER PASSWORD window appears.



2. To enter the password, highlight and click on the numbers 0 0 0 0 (this is the default password).
(To correct a number, highlight and click **Error** to erase, from right to left, numbers entered.)
3. Click **OK** to accept the password. The **MANAGER MENU** appears.



The following is a brief description of the menu items:

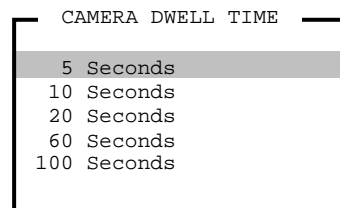
Camera dwell time	Sets the length of time each camera scene is displayed on the main monitor.
Video Monitoring	Selects sequencing the display between the active cameras or a display of a single camera.
Store Id.	Defines the store name display.
Register Identity	Defines the register identity displayed on the register overlay in the Transaction window.

Change User Password	Changes the password used to access the Manager Menu.
Set Date and Time	Sets the date and time display.
Event Menu	Defines and activates EPoS exception events and alarm events. Accesses event reports.
Service Menu	For use by the Customer Engineer for setting up the VI-POSCON System.
Surveillance Mode	Returns the system to monitoring cash register events.

Setting the Camera Dwell Time

In the Surveillance Mode, if more than one camera is activated and you are using only one monitor and VCR, the VI-POSCON System sequences the monitored scene between cameras. The length of time each monitored scene is displayed is the Camera Dwell Time. The default setting is **20 seconds**.

1. Highlight and click **Camera Dwell Time** on the **MANAGER MENU**. The **CAMERA DWELL TIME** window appears.

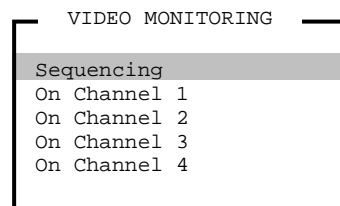


2. Highlight and click the length of time you want each camera's video to appear on the monitor. The **MANAGER MENU** reappears displaying the selected dwell time.

Selecting the Video Monitoring

In the Surveillance Mode, if more than one camera is activated, you can choose to have the VI-POSCON System sequentially display the camera scenes or you can choose to display a static scene from one of the cameras. The default setting is **Sequencing**.

1. Highlight and click **Video Monitoring** on the **MANAGER MENU**. The **VIDEO MONITORING** window appears.



2. Highlight and click **Sequencing** or one of the **On Channel** options.

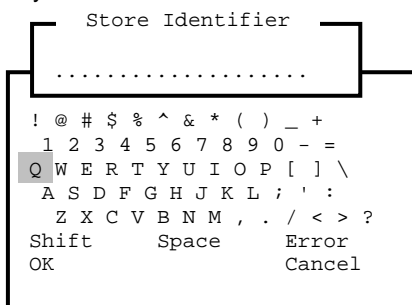
Note: When monitoring only one of the active channels, the Channel Bar at the bottom of the screen is replaced with an individual box displaying the selected Channel number and flashing asterisks on both sides of the box.

The **MANAGER MENU** reappears displaying the selected option.

Defining the Store Identity

Use this option to define the Store Identity. The store identity is displayed centred at the top of the screen while the system is in the Surveillance Mode.

1. Highlight and click **store id.** on the **MANAGER MENU**. The Store Identifier window and an on-screen QWERTY keyboard window open.

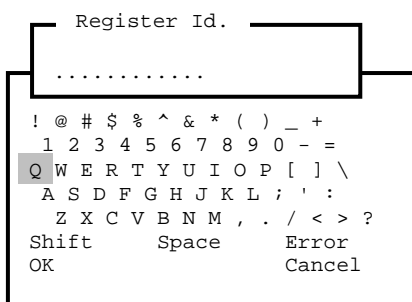


2. Use the mouse to highlight and click up to 20 characters (including spaces) for the name of the store. Highlight and click **shift** to toggle between uppercase and lowercase letters.
(To correct a character, highlight and click **Error** as required to erase, from right to left, characters entered.)
3. Highlight and click **OK** to save the name. The **MANAGER MENU** reappears displaying the same.

Defining the Register Identity

Use this option to define the Register Identity. The register identity is displayed on the top left of the Transaction window while the system is in the Surveillance Mode. The default is **DATA**.

1. Highlight and click **Register Identity** on the **MANAGER MENU**. The Register Id. window and an on-screen QWERTY keyboard window open.



2. Use the mouse to highlight and click up to 12 characters (including spaces) for the register identifier. Highlight and click **shift** to toggle between uppercase and lowercase letters.

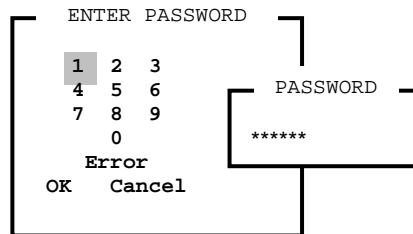
(To correct a character, highlight and click **Error** as required to erase, from right to left, characters entered.)

3. Highlight and click **OK** to save the identifier. The **MANAGER MENU** reappears displaying the Register Identity.

Changing the User Password

Use this option to change the User (Manager) Password. This password is used to access the Manager Menu. If you forget the Manager password, contact your representative for instructions on restoring the default password.

1. Highlight and click **Change User Password** on the **SERVICE MENU**. The **ENTER PASSWORD** window appears.

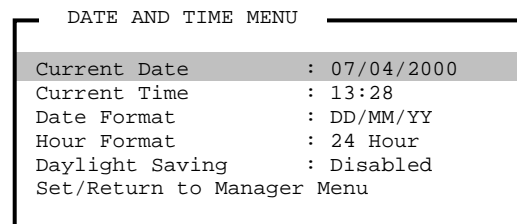


2. Highlight and click up to eight digits for the new password. An asterisk (*) appears in the **PASSWORD** window for each number entered.
(To correct a number, highlight and click **Error** to erase, from right to left, numbers entered.)
3. Highlight and click **OK** to save the new password. The **MANAGER MENU** reappears.

Setting the Date and Time

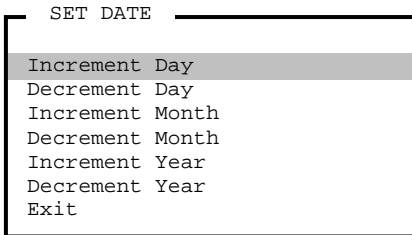
Use this option to set the system date and time. In the Surveillance Mode, the date is displayed at the top right of the monitored scene, and the time is displayed at the top left.

Highlight and click **Set Date and Time** on the **MANAGER MENU**. The **DATE AND TIME MENU** appears.



Setting the Current Date

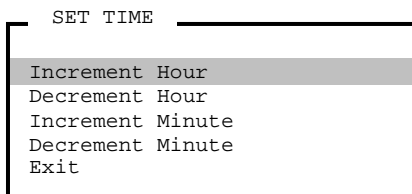
1. Highlight and click **Current Date** on the DATE AND TIME MENU. The SET DATE menu appears.



2. Highlight and click the item (day, month, year) to set. Each click increases (increments) or decreases (decrements) the item by one unit.
3. Highlight and click **Exit** to save the setting. The DATE AND TIME MENU reappears displaying the current date.
4. If you do not need to make additional date or time settings, highlight and click **Set/Return to Manager Menu**. The MANAGER MENU reappears.

Setting the Current Time

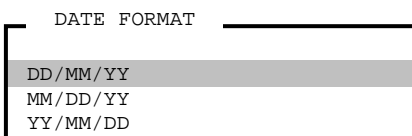
1. Highlight and click **Current Time** on the DATE AND TIME MENU. The SET TIME menu appears.



2. Highlight and click the item (hour, minute) to set. Each click increases (increments) or decreases (decrements) the item by one unit.
3. Highlight and click **Exit** to save the setting. The DATE AND TIME MENU reappears displaying the current time.
4. If you do not need to make additional date or time settings, highlight and click **Set/Return to Manager Menu**. The MANAGER MENU reappears.

Setting the Date Format

1. Highlight and click **Date Format** on the DATE AND TIME MENU. The DATE FORMAT menu appears. The default setting is **DD/MM/YY**.



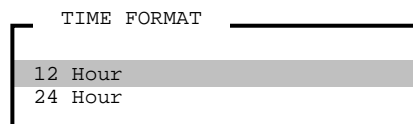
2. Highlight and click the date format option you want the system to use. The DATE AND TIME MENU reappears displaying the date in the selected format.

Note: The system replaces the date separator "/" with "." for the German, Polish, Finnish, Hungarian, Czechoslovakian and Russian languages, and "-" for the Portuguese and Danish languages.

3. If you do not need to make additional date or time settings, highlight and click **Set/Return to Manager Menu**. The MANAGER MENU reappears.

Setting the Hour Format

1. Highlight and click **Hour Format** on the DATE AND TIME MENU. The TIME FORMAT menu appears. The default setting is **24 Hour**.

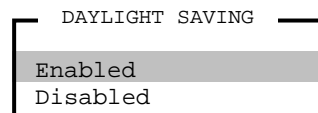


2. Highlight and click the time format option (12 Hour or 24 Hour) you want. The DATE AND TIME MENU reappears displaying the date in the selected format.
3. If you do not need to make additional date or time settings, highlight and click **Set/Return to Manager Menu**. The MANAGER MENU reappears.

Setting the Daylight Saving

Use this option to activate Daylight Saving time correction. For EU countries, Summer Time is used from the last Sunday in March until the last Sunday in October. For USA and Canada, Summer Time is used from the first Sunday in April to the last Sunday in October. This facility will automatically make the correction to the time - either losing an hour in Spring or gaining an hour in Autumn. The default setting is **Disabled**.

1. Highlight and click Daylight Saving on the DATE AND TIME MENU. The Daylight Saving menu appears.

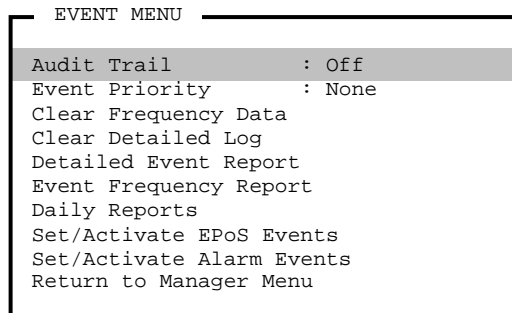


2. Highlight and click the option as required. The DATE AND TIME MENU reappears showing the selection.

Accessing the Event Menu

The Event Menu lets you define up to 10 EPoS exception events and up to four alarm events to monitor. It also lets you set the options for managing the events.

1. Highlight and click **Event Menu** on the **MANAGER MENU**. The **EVENT MENU** appears.



2. Highlight and click the **EVENT MENU** option you want to set. A corresponding menu appears.
3. If you do not want to make additional settings, highlight and click **Return to Manager Menu**. The **MANAGER MENU** reappears.

The following Event Menu options are described in the order in which they appear on the menu.

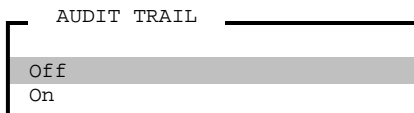
Activating an Audit Trail

The VI-POSCON System can print details of exception events and alarms when they occur. The details printed include the number of the Data port receiving the event, the type of event, its amount and the time it occurred.

Use this option to choose whether to automatically print exception events when they occur. The default setting is **off**.

Note: To enable Audit Trail, the VI-POSCON System must be configured for a 40-column or 80-column printer. If necessary, contact your Customer Engineer to add the printer.

1. Highlight and click **Audit Trail** on the **EVENT MENU**. The **AUDIT TRAIL** menu appears.

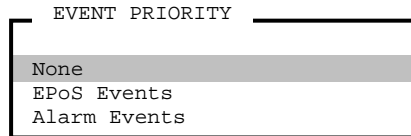


2. Highlight and click the option you want. The **EVENT MENU** reappears displaying the setting. If a printer has not been configured, a message appears indicating the option is not available.

Setting Event Priority

Use this option to choose whether EPoS (register) events or alarm (external) events or neither have priority. The default setting is **None**.

1. Highlight and click **Event Priority** on the **EVENT MENU**. The **EVENT PRIORITY** menu appears.



Selecting **None** gives equal priority to all EPoS and alarm events. This means that if the system is handling an event (EPoS or alarm) and another event occurs, the system immediately switches to the new event; it does not wait to complete the first event.

Selecting **EPoS Events or Alarm Events** prioritises the events, such as EPoS Event 1 has the highest priority and EPoS Event 10 has the lowest priority, or Alarm Event 1 is highest and Alarm Event 4 is lowest. Additionally, the selected event type has priority over the unselected event type.

For EPoS Events, the channels are also prioritised, with Channel 1 the highest and Channel 4 the lowest.

The following table shows the priority hierarchy of the selected event type:

Priority	EPoS Events	Alarm Events
Highest ↓	Event 1	Alarm 1
	Event 2	Alarm 2
	Event 3	Alarm 3
	Event 4	Alarm 4
	Event 5	Event 1
	Event 6	Event 2
	Event 7	Event 3
	Event 8	Event 4
	Event 9	Event 5
	Event 10	Event 6
Lowest	Alarm 1	Event 7
	Alarm 2	Event 8
	Alarm 3	Event 9
	Alarm 4	Event 10

Example 1: If the system is currently handling EPoS Event 2 and EPoS Event 4 occurs, the system logs and prints Event 4, but will not switch the monitor or VCR/DVR to it.

Example 2: If the system is currently handling EPoS Event 2 and EPoS Event 1 occurs, the system immediately switches to EPoS Event 1.

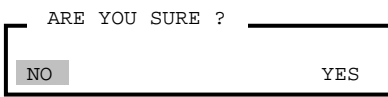
Example 3: If the system is handling EPoS Event 2 on Channel 2 and EPoS Event 2 occurs on Channel 3, the system logs and prints the event on Channel 3, but will not switch the monitor or VCR/DVR to it.

- Highlight and click the priority you want to set for the system. The **EVENT MENU** reappears displaying the setting.

Clearing the Frequency Data

The VI-POSCON System stores EPoS and alarm event and menu access information for the Event Frequency Report. Use this option to clear the data held in the Event Frequency Report memory. This resets all running totals to zero.

- Highlight and click **Clear Frequency Data** on the **EVENT MENU**. The following dialog box appears.

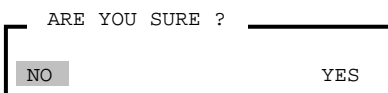


- Highlight and click **YES** to clear the data or **NO** to return to the **EVENT MENU** without clearing the data. The **EVENT MENU** reappears.

Clearing the Detailed Log

The VI-POSCON System stores the details for up to 4,096 EPoS and alarm events and menu accesses for the Detailed Event Report. Use this option to clear the data held in the Detailed Event Report memory.

- Highlight and click **Clear Detailed Log** on the **EVENT MENU**. The following dialog box appears.

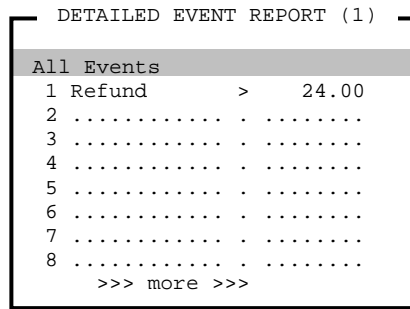


- Highlight and click **YES** to clear the data or **NO** to return to the **EVENT MENU** without clearing the data. The **EVENT MENU** reappears.

Displaying/Printing the Detailed Event Report

Use this option to print or display on-screen a detailed report of events held in memory. The VI-POSCON System can hold a maximum of 4,096 events in memory. If the memory becomes full, the oldest events are replaced by new events.

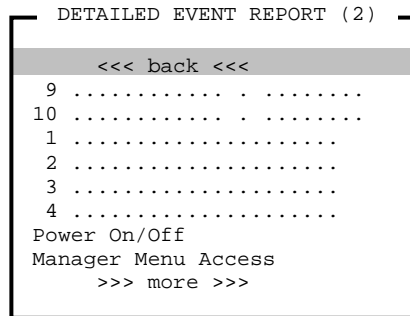
- Highlight and click **Detailed Event Report** on the **EVENT MENU**. The **DETAILED EVENT REPORT (1)** window appears.



All Events will list all records held in memory, in chronological order.

1 to 8 selects EPoS Event 1 to EPoS Event 8, and will list the specific records held in memory for the selected event only, in chronological order.

- To display the second part of the **DETAILED EVENT REPORT** window, highlight and click **>>> more>>>**. The **DETAILED EVENT REPORT (2)** window appears.



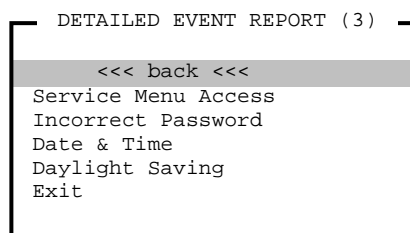
9 to 10 selects EPoS Event 9 or EPoS Event 10, and will list the specific records held in memory for the selected event only, in chronological order.

1 to 4 selects Alarm Event 1 to Alarm Event 4, and will list the specific records held in memory for the selected event only, in chronological order.

Power On/Off, and **Manager Menu Access** will list all the records held in memory for that specific event only, in chronological order.

<<< back <<< returns to the **DETAILED EVENT REPORT (1)** window.

- To display the third part of the **DETAILED EVENT REPORT** window, highlight and click **>>> more>>>**. The **DETAILED EVENT REPORT (3)** window appears.

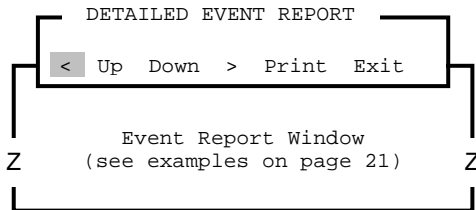


Service Menu Access, Incorrect Password, Date & Time, and Daylight Saving will list all the records held in memory for that specific event only, in chronological order.

<<< **back** <<< returns to the DETAILED EVENT REPORT (1) window.

Exit returns back to the EVENT MENU window.

- Highlight and click the option as required. The DETAILED EVENT REPORT navigation window and the report window appear.



The navigation options are:

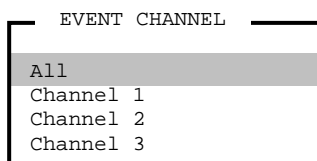
<	Scrolls the report to the left.
Up	Scrolls the report up one screen at a time.
Down	Scrolls the report down one screen at a time.
>	Scrolls the report to the right.
Print	Prints the report on the system printer.
Exit	Return to the EVENT MENU.

- Highlight and click the navigation options as required to view and/or print the report.
- Highlight and click **Exit** to return to the EVENT MENU. The EVENT MENU reappears.

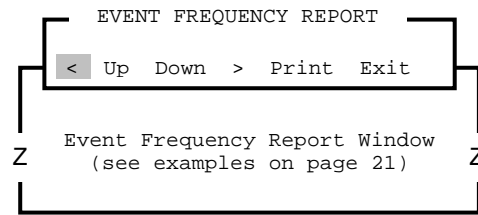
Displaying/Printing the Event Frequency Report

Use this option to print or display on-screen a detailed report of the total number of events occurring per hour for each enabled EPoS and alarm exception and other events.

- Highlight and click **Event Frequency Report** on the EVENT MENU. The EVENT CHANNEL menu appears.



- Highlight and click the option you want to display.
- The EVENT FREQUENCY REPORT navigation window and the report window appear.



The navigation options are:

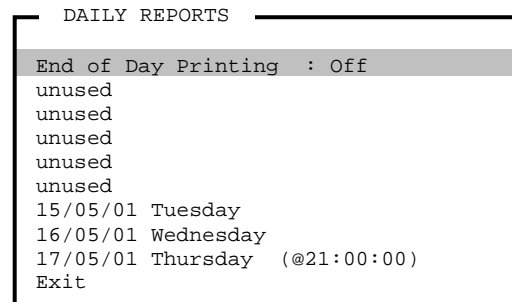
<	Scrolls the report to the left.
Up	Scrolls the report up one screen at a time.
Down	Scrolls the report down one screen at a time.
>	Scrolls the report to the right.
Print	Prints the report on the system printer.
Exit	Return to the EVENT MENU.

- Highlight and click the navigation options as required to view and/or print the report.
- Highlight and click **Exit** to return to the EVENT MENU. The EVENT MENU reappears.

Daily Reports

Use this option to activate the automatic printing of Daily Reports at the end of a day (i.e. midnight), and to print or display on-screen a detailed report of the total number of events occurring per hour for each enabled EPoS and alarm exception and other events for one specific day only. Up to 7 days of Daily Reports can be accessed.

Highlight and click **Daily Reports** on the EVENT MENU. The DAILY REPORT menu appears.



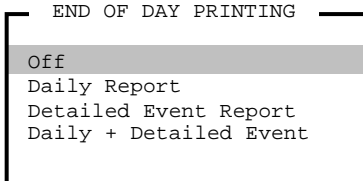
This menu displays the **End of Day Printing** setting, up to 7 days of Daily Reports, plus the current day's Daily Report. The Daily Reports are listed in ascending order by date; with the oldest at the top and the latest at the bottom. The latest Daily Report (i.e. today's Daily Report) also shows the time at which the menu was accessed. **Unused** indicates that there is no Daily Report at this location.

Setting/Activating End of Day Printing

Use this option to activate the automatic printing of Daily Reports at the end of the day (i.e. midnight). The default setting is **Off**.

Note: To enable End of Day Printing, the VI-POSCON System must be configured for a 40-column or 80-column printer. If necessary, contact your Customer Engineer to add the printer.

1. Highlight and click **End of Day Printing** in the DAILY REPORTS menu. The End of Day Printing menu appears.



2. Highlight and click the required option. The DAILY REPORTS menu appears.

Off disables this facility.

Daily Report will print the previous day's Daily Report.

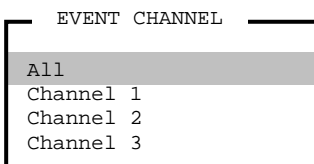
Detailed Event Report will print a Detailed Event Report of the previous day's events only.

Daily + Detailed Event will print the previous day's Daily Report followed by a Detailed Event Report of the previous day's events only.

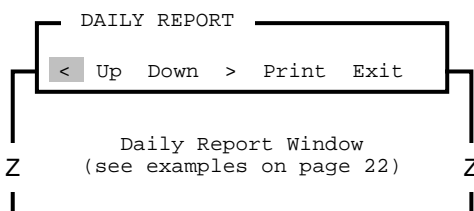
Displaying/Printing Daily Report

Use this option to print or display on-screen a Daily Report of the total number of events occurring per hour for each enabled EPoS and alarm exception and other events for a specific day.

1. Highlight and click one of the listed days from the DAILY REPORTS menu. The EVENT CHANNEL menu appears.



2. Highlight and click the option you want to display.
3. The DAILY REPORT navigation window and the report window appear



The navigation options are:

<	Scrolls the report to the left.
Up	Scrolls the report up one screen at a time.
Down	Scrolls the report down one screen at a time.
>	Scrolls the report to the right.
Print	Prints the report on the system printer.
Exit	Return to the DAILY REPORT menu.

4. Highlight and click the navigation options as required to view and/or print the report.
5. Highlight and click **Exit** to return to the DAILY REPORTS menu. The DAILY REPORTS menu reappears.

Setting/Activating EPoS Events

Use this option to define and activate up to 10 EPoS exception events you want the system to monitor. The VI-POSCON System monitors all registers for all activated exception events. You cannot assign specific exception events to individual registers.

The main steps in defining an exception event are:

- Inputting the *event string*, such as void, refund, check, merchandise, etc.
- Defining the *event condition*, such as = (equal to), > (greater than), < (less than), or "no test" (no monetary value required).
- Specifying the *event amount*. This is the monetary value the system uses to test the event to determine if it is an exception. (The currency display format (decimal or integer) is set in the Service Menu.)

Examples:

VOID > 24.99 (voids greater than \$24.99 are exceptions.)

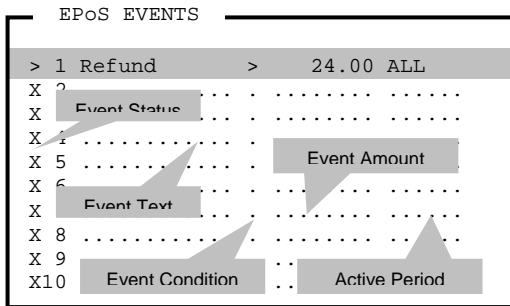
REFUND > 49.99 (refunds greater than \$49.99 are exceptions.)

CHECK > 19.99 (checks greater than \$19.99 are exceptions.)

LEATHER BELT < 15.00 (leather belts less than \$15.00 are exceptions.)

Perform the following steps to define or redefine exception events.

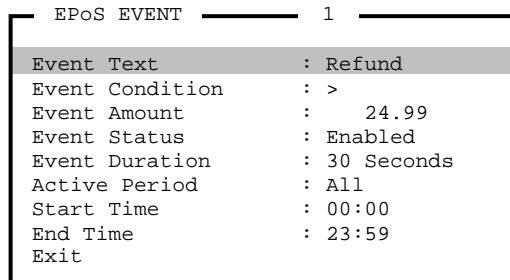
1. Highlight and click **Set/Activate EPOs Events** on the **EVENT MENU**. The **EPOs EVENTS** window appears.



Note: To exit from this window, click the right mouse button.

This window displays 10 lines if five user-definable fields. From left to right, the **Event Status** field displays a ">" for *enabled* events and an "X" for *disabled* events. The **Event Text** field displays the event name (up to 12 characters). The **Event Condition** field is a 1-character test operator (=, >, <, or space ("no test")). The **Event Amount** field displays the event limit (up to eight numbers including a decimal point). The **Active Period** field either displays **ALL** (24 hours) or **TIMED** (a set period) when the event is enabled.

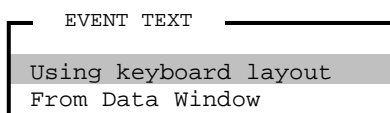
2. Highlight and click the event to define or redefine. The **EPOs EVENT** menu appears.



Setting the Event Text

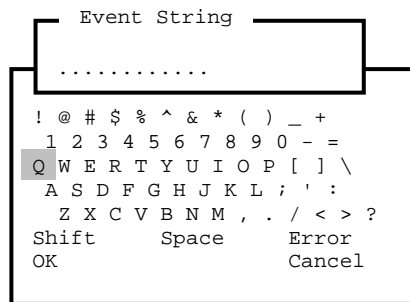
The VI-POSCON System provides two methods for defining cash register transactions as exception events. You can use an on-screen keyboard layout to enter the event data, or you can enter event data from the Transaction (Data) window. For either method, the Event Text must match the number of characters and case of the register output.

Highlight and click **Event Text** on the **EPOs EVENT** menu. The **EVENT TEXT** menu appears.



Using the Keyboard Layout Method

1. Highlight and click **Using keyboard layout** on the **EVENT TEXT** menu. The Event String window and the on-screen QWERTY keyboard window appear.



2. Highlight and click up to 12 characters to define the event.

Important: The Event String is case sensitive; it must match the case of the output from the register. Highlight and click **shift** to toggle between uppercase and lowercase letters.

Note: If the register output contains special characters that are not shown on the on-screen keyboard (such as "~"), you must use the **From Data Window** method for setting the Event Text. Also, the first character of an Event String can be a *space*.

(To correct a character, highlight and click **Error** as required to erase, from right to left, characters entered.)

3. Highlight and click **OK** to save the string. The **EPOs EVENT** menu reappears displaying the event string.
4. Continue with **Setting the Event Condition** below.

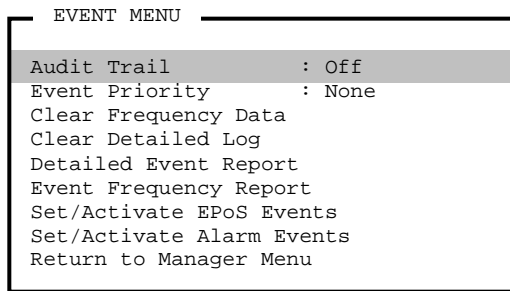
Using the From Data Window Method

This method uses the on-screen display of exception events to define the events to the VI-POSCON System. This requires that you first ring-up the exception events on the register.

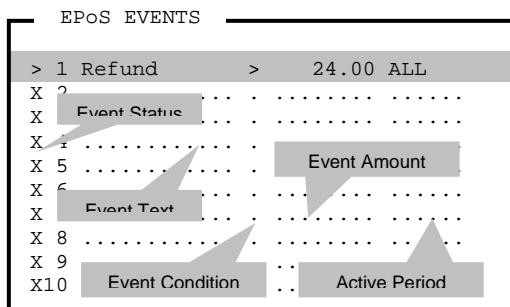
1. Close any open window or menu by clicking the right mouse button until the monitor displays the surveillance scene. The Transaction window displays the cash register record over the surveillance scene.
2. On the cash register, ring up those items you want to define as exception events. If an item has an associated cash value, it is not necessary to ring up the required amount.

The items appear in the Transaction window. Do not ring up additional items until you define the events displayed in this window.
3. Access the **Manager Menu** as described at the beginning of this section.

- Highlight and click **Event Menu** on the MANAGER MENU. The EVENT MENU appears.



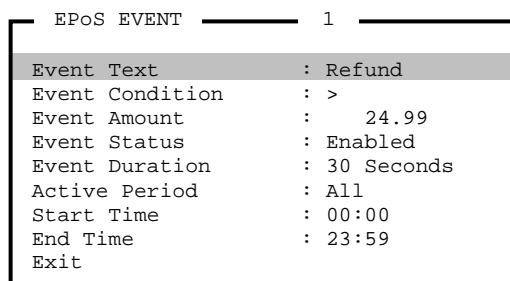
- Highlight and click **Set/Activate EPoS Events** on the EVENT MENU. The EPoS EVENTS window appears.



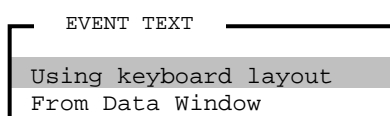
Note: To exit from this window, click the right mouse button.

This window displays 10 lines of five user-definable fields. From left to right, the **Event Status** field displays a ">" for *enabled* events and an "X" for *disabled* events. The **Event Text** field displays the event name (up to 12 characters). The **Event Condition** field is a 1-character test operator (=, >, <, or space ("no test")). The **Event Amount** field displays the event limit (up to eight numbers including a decimal point). The **Active Period** field either displays **ALL** (24 hours) or **TIMED** (a set period) when the event is enabled.

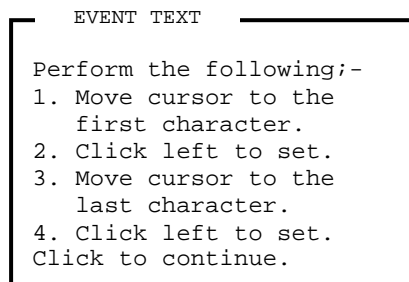
- Highlight and click the event to define or redefine. The EPoS EVENT menu appears.



- Highlight and click **Event Text** on the EPoS EVENT menu. The EVENT TEXT menu appears.



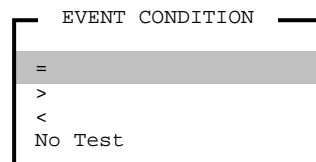
- Highlight and click **From Data Window** on the EVENT TEXT menu. The following instructions appear on the screen.



- To continue, click the left mouse button after you have read the Event Text instructions.
- Highlight and click the **first** character on the on-screen string to define as an event.
- Highlight and click the **last** character of the string (up to 12 characters). The EPoS EVENT menu reappears displaying the event string.

Setting the Event Condition

- Highlight and click **Event Condition** on the EPoS EVENT menu. The EVENT CONDITION menu appears.

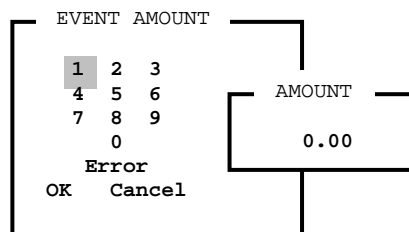


- Highlight and click the test condition for the event. The EPoS EVENT window reappears displaying the event condition.

Setting the Event Amount

This is the monetary amount against which the event is tested to determine if it is an exception.

- Highlight and click **Event Amount** on the EPoS EVENT menu. The EVENT AMOUNT window appears.

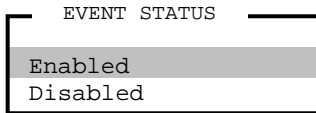


- Highlight and click the monetary value for the event.
(To correct a character, highlight and click **Error** as required to erase, from right to left, characters entered.)
- Highlight and click **OK** to save the value. The EPoS EVENT menu reappears displaying the amount.

Setting the Event Status

Use this option to enable or disable the current event. When you enable an event, the "x" in the left-most column of the EPoS EVENTS window is replaced by a ">". The default setting is **Disabled**.

1. Highlight and click **Event Status** on the EPoS EVENT menu. The EVENT STATUS menu appears.

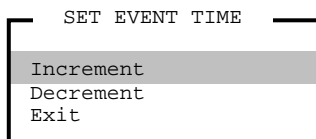


2. Highlight and click the option for the current event. The EPoS EVENT menu reappears displaying the selected status.

Setting the Event Duration

In normal Surveillance Mode (if you are using more than one video input channel), when an exception event occurs, the display switches to the channel reporting the event. You can set the length of time that the event is displayed from 0 to 60 seconds. The default setting is **30 Seconds**.

1. Highlight and click **Event Duration** on the EPoS EVENT menu. The SET EVENT TIME menu appears.

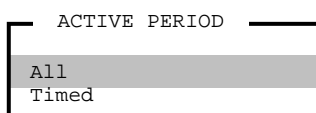


2. Highlight and click **Increment** to increase the event time by one second for each click. Highlight and click **Decrement** to decrease the event time by one second for each click.
3. Highlight and click **Exit** to save the setting. The EPoS EVENT menu reappears displaying the event duration.

Setting the Active Period

Use this option to set the period during which the event is active. The Active Period is defined by the Start Time and End Time and is inclusive. The default setting is **All**.

1. Highlight and click **Active Period** on the EPoS EVENT menu. The ACTIVE PERIOD menu appears.



2. Highlight and click **All** to set the alarm for all day (24 hours) or

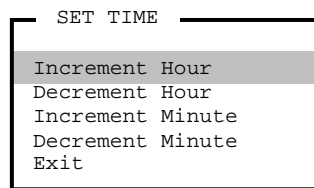
Highlight and click **Timed** to enable the event for a shorter period. Use the **start Time** and **End Time** options to set the active period.

The EPoS EVENT menu reappears displaying the selected active period.

Setting the Start Time

Use this option to set the start time of a *timed* event's active period. The default setting is **00:00**.

1. Highlight and click **Start Time** on the EPoS EVENT menu. The SET TIME menu appears.

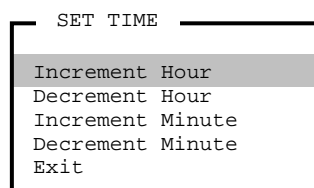


2. Highlight and click the item (hour, minute) to set. Each click increases (increments) or decreases (decrements) the item by one unit.
3. Highlight and click **Exit** to save the setting. The EPoS EVENT menu reappears displaying the start time.

Setting the End Time

Use this option to set the end time of a *timed* event's active period. The default setting is **23:59**.

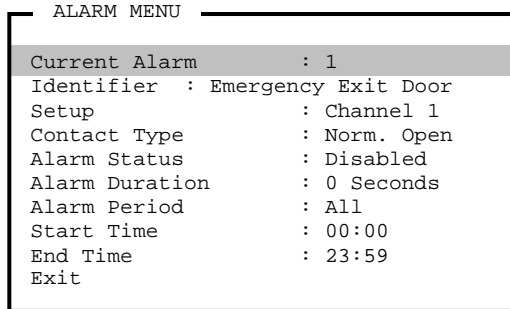
1. Highlight and click **End Time** on the EPoS EVENT menu. The SET TIME menu appears.



2. Highlight and click the item (hour, minute) to set. Each click increases (increments) or decreases (decrements) the item by one unit.
3. Highlight and click **Exit** to save the setting. The EPoS EVENT menu reappears displaying the end time.

Setting/Activating Alarm Events

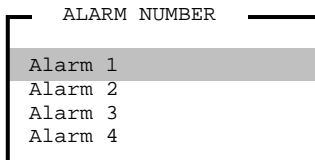
This menu lets you configure up to four alarm inputs. To access the menu, highlight and click **Set/Activate Alarm Events** on the **EVENT MENU**. The **ALARM MENU** appears.



Setting the Current Alarm

Use this option to identify the alarm you want to configure.

1. Highlight and click **Current Alarm** on the **ALARM MENU**. The **ALARM NUMBER** menu appears.

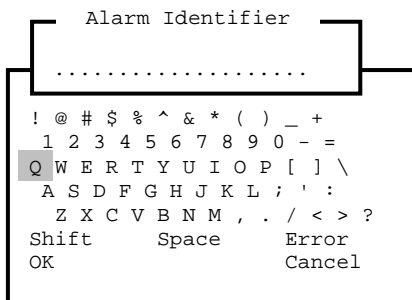


2. Highlight and click the alarm you are identifying. The **ALARM MENU** reappears displaying the current alarm number and its associated details.

Setting the Identifier

This setting lets you enter a text string name to identify the current alarm.

1. Highlight and click **Identifier** on the **ALARM MENU**. The Alarm Identifier window and an on-screen QWERTY keyboard window open.



2. Use the mouse to highlight and click up to 20 characters (including spaces) to name this alarm. Highlight and click **shift** to toggle between uppercase and lowercase letters.

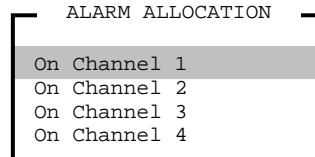
(To correct a character, highlight and click **Error** as required to erase, from right to left, characters entered.)

3. Highlight and click **OK** to save the text string. The **ALARM MENU** reappears displaying the identifier.

Setting the Setup

Use this option to associate the current alarm with any of the activated input channels.

1. Highlight and click **Setup** on the **ALARM MENU**. The **ALARM ALLOCATION** menu appears.



2. Highlight and click the active channel to which to associate the current alarm. The **ALARM MENU** reappears displaying the setup selected.

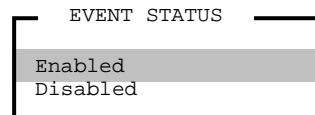
Setting the Contact Type

The Contact Type display is for information only. Contact your Customer Engineer if you need to change this setting.

Setting the Alarm Status

Use this option to enable or disable the current alarm. The default setting is **Disabled**.

1. Highlight and click **Alarm Status** on the **ALARM MENU**. The **EVENT STATUS** menu appears.

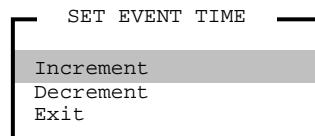


2. Highlight and click the option for the current alarm. The **ALARM MENU** reappears displaying the selected status.

Setting the Alarm Duration

Use this option to set the length of time the alarm is displayed on the monitor. The default setting is **30 Seconds**.

1. Highlight and click **Alarm Duration** on the **ALARM MENU**. The **SET EVENT TIME** menu appears.

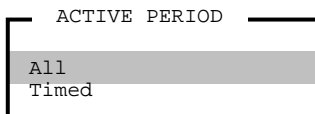


- Highlight and click **Increment** to increase or **Decrement** to decrease the alarm time by one second for each click.
- Highlight and click **Exit** to save the setting. The **ALARM MENU** reappears displaying the alarm duration time.

Setting the Active Period

Use this option to set the period that the alarm is active. The **Active Period** is defined by the **Start Time** and **End Time** and is inclusive. The default setting is **All**.

- Highlight and click **Active Period** on the **ALARM MENU**. The **ACTIVE PERIOD** menu appears.

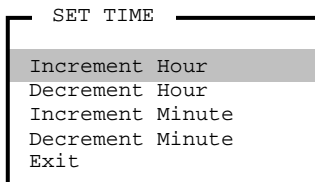


- Highlight and click **All** to set the alarm for all day (24 hours) or highlight and click **Timed** to enable the alarm for a shorter period. Use the **Start Time** and **End Time** options to set the active period.
The **ALARM MENU** reappears displaying the selected active period.

Setting the Start Time

Use this option to set the start time of a *timed* alarm's active period. The default setting is **00:00**.

- Highlight and click **Start Time** on the **ALARM MENU**. The **SET TIME** menu appears.

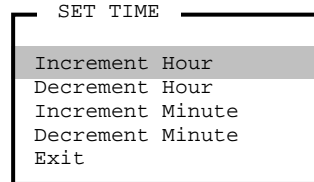


- Highlight and click the item (hour, minute) to set. Each click increases (increments) or decreases (decrements) the item by one unit.
- Highlight and click **Exit** to save the setting. The **ALARM MENU** reappears displaying the start time.

Setting the End Time

Use this option to set the end time of a *timed* alarm's active period. The default setting is **23:59**.

- Highlight and click **End Time** on the **ALARM MENU**. The **SET TIME** menu appears.



- Highlight and click the item (hour, minute) to set. Each click increases (increments) or decreases (decrements) the item by one unit.
- Highlight and click **Exit** to save the setting. The **ALARM MENU** reappears displaying the end time.

The Service Menu

The Service Menu, which is password protected, is used to setup and customize your VI-POSCON System. The Customer Engineer who installed your system can customize the following features for you;

- The number of active video input channels
- The language the system displays
- The display of currency amounts in decimal (nnnnn.dd) or integer (nnnnnnnn) format
- The type of system printer
- The position, size and border of the Transaction window
- The filtering of the Transaction window (unfiltered, journal only, receipt only)
- The screen attributes (channel bar, date, and time displays)
- The alarm contact type
- Reset the User Password to the default setting

Contact your Customer Engineer if you want to change any of these features after they are defined.

Returning to the Surveillance Mode

To return to event monitoring (the Surveillance Mode) from the **Manager Menu**, highlight and click **Surveillance Mode** or click the right mouse button.

The **Manager Menu** disappears and the Transaction window begins to display cash register events.

Note: For each menu level, if there is no activity for 15 seconds, the system automatically returns to the previous menu level until it returns to the Surveillance Mode.

Using a VCR or DVR with the VI-POSCON System

The VI-POSCON System uses a VCR or DVR to record activity at your store. The VCR or DVR records Exception events and external events (alarms) at full (real-time) speed; other activity is recorded at a time-lapsed rate of five frames per second. Time-lapse recording compresses 24 hours of non-exception event activity onto three hours of video tape.

Your Customer Engineer can explain how to operate your particular VCR or DVR.

Follow these guidelines for using the VCR or DVR with the VI-POSCON System.

- Install the VCR or DVR in an area where it will be safe from tampering.
- For a VCR, use a set of tapes (one for each day of operation for a 2-week period) in rotation. This provides you with a taped record of all activity for the previous two weeks. You can retain a tape that contains important footage and replace it with a new tape.
- Replace the previous day's tape with the next one in the rotation.
- Verify that the time-lapse setting on the VCR or DVR is correct.
- Ensure that the VCR or DVR is recording.
- Store the tapes in a secure location.

Event Report Examples

The VI-POSCON System has numerous reports available to assist you in analysing exception events; the Event Audit Trail, the Detailed Event Report, the Event Frequency Report, and Daily Reports.

The Detailed Event Report provides complete details for the enabled EPoS events and alarms that have occurred.

The Event Frequency Report identifies the total number of enabled EPoS events and alarms occurring per hour for each event. The totals are shown as values in the range 0 to 99. Values greater than 99 are displayed as flashing 99. This is because only 2 digits can be displayed for each value. (NOTE: the actual value will be printed, but will cause the columns to be out of alignment if they are greater than 99.)

The Daily Reports identify the total number of enabled EPoS events and alarms occurring per hour for each event for a specific day only. Up to 7 days plus the current day are stored. The totals are shown as values in the range 0 to 99. Values greater than 99 are displayed as flashing 99. This is because only 2 digits can be displayed for each value. (NOTE: the actual value will be printed, but will cause the columns to be out of alignment if they are greater than 99.) End of Day Daily Reports and End of Day Detailed Event Reports can be printed automatically (i.e. at midnight) for the previous day. For information about defining these reports, see **Daily Reports** (page 12).

The Event Audit Trail prints EPoS exception events and alarms as they occur during the Surveillance Mode.

80-Column Printers Detailed Event Report

This report provides the details for enabled EPoS events and alarms that have occurred since the Detailed Event memory was last cleared. The report lists the events in chronological order. The Exception column shows the Event Amount and the test condition. The following is an example of the report.

```

DETAILED EVENT REPORT
-----
Store Ident.: Discounts-R-Us #4
Last Reviewed: 14:30:00 16/05/01

Event      Exception Amount  Priority Date      Time      Ch Register Id.
-----
Manager Menu Access          / 16/05/01 14:30:00 1 Front #1
Refund > 24.99 32.50 / 17/05/01 09:15:00 1 Front #1
Void > 9.99 15.25 / 17/05/01 10:29:00 3 Rear #1
No Sale / / 17/05/01 13:22:00 2 Front #2
Handbag < 25.00 5.00 / 17/05/01 14:20:00 3 Rear #1
Check > 49.99 75.00 / 17/05/01 16:37:00 1 Front #1
Charge Card > 99.99 475.00 / 17/05/01 18:42:00 2 Front #2
Door / / 17/05/01 20:10:00 3 Fire Exit #1
Power On/Off 17/05/01 20:55:00 1 Front #1
Power On/Off 17/05/01 20:55:00 2 Front #2
Power On/Off 17/05/01 20:55:00 3 Rear #1
Power On/Off 17/05/01 20:55:00 4 Data
Incorrect Password =1357 17/05/01 20:58:00 1 Front #1
Manager Menu Access 17/05/01 21:00:00 1 Front #1
Date & Time 17/05/01 21:01:00 -> 17/05/01 22:00:00 1 Front #1
    
```

If EPoS Events or Alarm Events are prioritised (see **Setting Event Priority**, page 10), the Priority column indicates how the system handled each event. If the system fully handled the event, it places a "/" into the Priority column. If an event was not fully handled (because a higher-priority event was being handled at the time), the system places an "x" into the Priority column.

If events are not prioritised, all events are fully handled and the system places a "/" into the Priority column.

In Date & Time Event and Daylight Saving Event, the first date & time field (i.e. before the "->") indicate the VI-POSCON System date & time when the change was made. The second date & time field (i.e. after the "->") indicate the new VI-POSCON System date & time.

Frequency Event Report

This report identifies the total number of events occurring per hour for each active exception and alarm. The following is an example of the report.

```

EVENT FREQUENCY REPORT
-----
Store Ident.: Discounts-R-Us #4
For Channel: ALL
For Period From: 08:45:00 10/05/01 To: 08:10:00 17/05/01
Last Reviewed: 08:09:00 15/05/01
} A

Hours:
00 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23
Event 1: Refund > 24.99
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Event 2: Void > 9.99
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Event 3: No Sale2
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Event 4: Handbag < 25.00
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Event 5: Check > 49.99
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Event 6: Charge Card > 99.99
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Event 7:
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Event 8:
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Event 9:
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Event 10:
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Alarm 1: Door
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Alarm 2:
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Alarm 3:
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Alarm 4:
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Power On/Off
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Manager Menu Access
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Service Menu Access
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Incorrect Password
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Date & Time
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
    
```

The following is an explanation of the four lines (area "A") below the report title.

Store Ident. : is the name of the store.

For Channel: indicates the Data Channel (all or 1 through 4) being reported).

For Period From: and **To:** identify the period of time the report covers. **Period From:** indicates the time and date the Frequency data was last cleared. **To:** is the current time and date.

Last Reviewed: is the time and date the Event Frequency data was last viewed or printed.

Each of the **Hours:** column heading, 00 through 23, represents a 1-hour period starting at midnight (00).

Each of the events on the Event Frequency Report is self-explanatory, with the exception of the following events.

Power On/Off reports when power to the VI-POSCON System is turned off and then on again. If **Audit Trail** is enabled, when power is restored to the VI-POSCON System, it sends a line to the printer indicating the time power was restored. One line is printed for each Data channel.

Manager Menu Access reports when the user accessed the Manager Menu. If **Audit Trail** is enabled, the system sends a line to the printer indicating the time of access.

Service Menu Access reports when the user accessed the Service Menu. If **Audit Trail** is enabled, the system sends a line to the printer indicating the time of access.

Incorrect Password reports when the user entered an invalid password in an attempt to access the Manager Menu or Service Menu. If **Audit Trail** is enabled, the system sends a line to the printer indicating the time the password was attempted.

Date & Time reports when the user changed the VI-POSCON Controller date & time.

For information about defining events and printing Event Frequency Reports, see **Using the VI-POSCON System** (page 6).

Daily Report

This report identifies the total number of events occurring per hour for each active exception and alarm for a specific day only. The following is an example of the report.

```

DAILY REPORT
-----
Store Ident.: Discounts-R-Us #4
For Channel: ALL
16/05/01 Wednesday

Hours:
00 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23
Event 1: Refund > 24.99
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Event 2: Void > 9.99
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Event 3: No Sale2
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Event 4: Handbag < 25.00
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Event 5: Check > 49.99
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Event 6: Charge Card > 99.99
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Event 7:
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Event 8:
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Event 9:
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Event 10:
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Alarm 1: Door
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Alarm 2:
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Alarm 3:
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Alarm 4:
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Power On/Off
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Manager Menu Access
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Service Menu Access
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Incorrect Password
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Date & Time
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
  
```

The following is an explanation of the four lines (area "A") below the report title.

Store Ident.: is the name of the store.

For Channel: indicates the Data Channel (all or 1 through 4) being reported).

The Date (and day-of-the-week) indicates specific day of the Daily Report. If this is today's Daily report, then the time will also be included.

Each of the **Hours:** column heading, 00 through 23, represents a 1-hour period starting at midnight (00).

Each of the events on the Daily Report is self-explanatory, with the exception of the following events.

Power On/Off reports when power to the VI-POSCON System is turned off and then on again. If **Audit Trail** is enabled, when power is restored to the VI-POSCON System, it sends a line to the printer indicating the time power was restored. One line is printed for each Data channel.

Manager Menu Access reports when the user accessed the Manager Menu. If **Audit Trail** is enabled, the system sends a line to the printer indicating the time of access.

Service Menu Access reports when the user accessed the Service Menu. If **Audit Trail** is enabled, the system sends a line to the printer indicating the time of access.

Incorrect Password reports when the user entered an invalid password in an attempt to access the Manager Menu or Service Menu. If **Audit Trail** is enabled, the system sends a line to the printer indicating the time the password was attempted.

Date & Time reports when the user changed the VI-POSCON Controller date & time.

For information about defining events and printing Daily Reports, see **Using the VI-POSCON System** (page 6).

End of Day Detailed Event Report

This report provides the details for enabled EPoS events and alarms that have occurred and is only printed at the end of the day (i.e. midnight) for a specific day only. It can be printed instead of or as well as the End of Day Daily Report. The report lists the events in chronological order. The Exception column shows the Event Amount and the test condition. The following is an example of the report.

DETAILED EVENT REPORT					

Store Ident.: Discounts-R-Us #4					
End of Day: 16/05/01 Wednesday					
Event	Exception	Amount	Priority	Date	Time Ch Register Id.

Manager Menu Access				16/05/01	14:30:00 1 Front #1

If EPoS Events or Alarm Events are prioritised (see **Setting Event Priority**, page 10), the Priority column indicates how the system handled each event. If the system fully handled the event, it places a "/" into the Priority column. If an event was not fully handled (because a higher-priority event was being handled at the time), the system places an "x" into the Priority column.

If events are not prioritised, all events are fully handled and the system places a "/" into the Priority column.

In Date & Time Event and Daylight Saving Event, the first date & time field (i.e. before the "->") indicate the VI-POSCON System date & time when the change was made. The second date & time field (i.e. after the "->") indicate the new VI-POSCON System date & time.

Event Audit Trail

If **Audit Trail** is enabled (page 10), the system printer records enabled EPoS events and alarms as they occur. The printer data is in the same format as the Detailed Event Report without the title or column headings. The following is an example of the printout.

Manager Menu Access				16/05/01	14:30:00	1	Front #1
Refund	>	24.99	32.50	/			17/05/01 09:15:00 1 Front #1
Void	>	9.99	15.25	/			17/05/01 10:29:00 3 Rear #1
No Sale				/			17/05/01 13:22:00 2 Front #2
Handbag	<	25.00	5.00	/			17/05/01 14:20:00 3 Rear #1
Check	>	49.99	75.00	/			17/05/01 16:37:00 1 Front #1
Charge Card	>	99.99	475.00	/			17/05/01 18:42:00 2 Front #2
Door				/			17/05/01 20:10:00 3 Fire Exit #1
Power On/OFF							17/05/01 20:55:00 1 Front #1
Power On/OFF							17/05/01 20:55:00 2 Front #2
Power On/OFF							17/05/01 20:55:00 3 Rear #1
Power On/OFF							17/05/01 20:55:00 4 Data
Incorrect Password	=	1357					17/05/01 20:58:00 1 Front #1
Manager Menu Access							17/05/01 21:00:00 1 Front #1
Date & Time				17/05/01 21:01:00	->		17/05/01 22:00:00 1 Front #1

40-Column Printers Detailed Event Report

This report provides the details for enabled EPoS events and alarms that have occurred since the Detailed Event memory was last cleared. The report lists the events in chronological order. The Exception column shows the Event Amount and the test condition.

The following is an example of a 40-column Detailed Event Report.

```

DETAILED EVENT REPORT
-----
Store Ident.: Discounts-R-Us #4
Last Reviewed: 14:30:00 16/05/01

Event      Exception Amount  Priority
-----
Date      Time      Ch Register Id.
-----
Manager Menu Access
16/05/01 14:30:00 1 Front #1
Refund      > 24.99 32.50 /
17/05/01 09:15:00 1 Front #1
Void        > 9.99 15.25 /
17/05/01 10:29:00 3 Rear #1
No Sale
17/05/01 13:22:00 2 Front #2
Handbag     < 25.00 5.00 /
17/05/01 14:20:00 3 Rear #1
Check       > 49.99 75.00 /
17/05/01 16:37:00 1 Front #1
Charge Card > 99.99 475.00 /
17/05/01 18:42:00 2 Front #2
Door
17/05/01 20:10:00 3 Fire Exit #1
Power On/Off
17/05/01 20:55:00 1 Front #1
Power On/Off
17/05/01 20:55:00 2 Front #2
Power On/Off
17/05/01 20:55:00 3 Rear #1
Power On/Off
17/05/01 20:55:00 4 Data
Incorrect Password =1357
17/05/01 20:58:00 1 Front #1
Manager Menu Access
17/05/01 21:00:00 1 Front #1
Date & Time 17/05/01 21:01:00 ->
17/05/01 22:00:00 1 Front #1

```

If EPoS Events or Alarm Events are prioritised (see **Setting Event Priority**, page 10), the Priority column indicates how the system handled each event. If the system fully handled the event, it places a "/" into the Priority column. If an event was not fully handled (because a higher-priority event was being handled at the time), the system places an "x" into the Priority column.

If events are not prioritised, all events are fully handled and the system places a "/" into the Priority column.

In Date & Time Event and Daylight Saving Event, the first date & time field (i.e. before the "->") indicate the VI-POSCON System date & time when the change was made. The second date & time field (i.e. after the "->") indicate the new VI-POSCON System date & time.

Event Frequency Report

The following is an example of a 40-column Event Frequency Report for hours 00 through 11.

```

EVENT FREQUENCY REPORT
-----
Store Ident.: Discounts-R-Us #4
For Channel: ALL
For Period From: 08:45:00 10/05/01
To: 08:10:00 17/05/01
Last Reviewed: 08:09:00 15/05/01
} A

Hours:
00 01 02 03 04 05 06 07 08 09 10 11
Event 1: Refund > 24.99
0 0 0 0 0 0 0 0 0 0 0 0
Event 2: Void > 9.99
0 0 0 0 0 0 0 0 0 0 0 0
Event 3: No Sale2
0 0 0 0 0 0 0 0 0 0 0 0
Event 4: Handbag < 25.00
0 0 0 0 0 0 0 0 0 0 0 0
Event 5: Check > 49.99
0 0 0 0 0 0 0 0 0 0 0 0
Event 6: Charge Card > 99.99
0 0 0 0 0 0 0 0 0 0 0 0
Event 7:
0 0 0 0 0 0 0 0 0 0 0 0
Event 8:
0 0 0 0 0 0 0 0 0 0 0 0
Event 9:
0 0 0 0 0 0 0 0 0 0 0 0
Event 10:
0 0 0 0 0 0 0 0 0 0 0 0
Alarm 1: Door
0 0 0 0 0 0 0 0 0 0 0 0
Alarm 2:
0 0 0 0 0 0 0 0 0 0 0 0
Alarm 3:
0 0 0 0 0 0 0 0 0 0 0 0
Alarm 4:
0 0 0 0 0 0 0 0 0 0 0 0
Power On/Off
0 0 0 0 0 0 0 0 0 0 0 0
Manager Menu Access
0 0 0 0 0 0 0 0 0 0 0 0
Service Menu Access
0 0 0 0 0 0 0 0 0 0 0 0
Incorrect Password
0 0 0 0 0 0 0 0 0 0 0 0
Date & Time
0 0 0 0 0 0 0 0 0 0 0 0

```


The following is an example of a 40-column Event Frequency Report for hours 12 through 23.

```

EVENT FREQUENCY REPORT
-----
Store Ident.: Discounts-R-Us #4
For Channel: ALL
For Period From: 08:45:00 10/05/01
                  To: 08:10:00 17/05/01
Last Reviewed: 08:09:00 15/05/01

Hours:
12 13 14 15 16 17 18 19 20 21 22 23
Event 1: Refund > 24.99
0 0 0 0 0 0 0 0 0 0 0 0
Event 2: Void > 9.99
0 0 0 0 0 0 0 0 0 0 0 0
Event 3: No Sale2
0 0 0 0 0 0 0 0 0 0 0 0
Event 4: Handbag < 25.00
0 0 0 0 0 0 0 0 0 0 0 0
Event 5: Check > 49.99
0 0 0 0 0 0 0 0 0 0 0 0
Event 6: Charge Card > 99.99
0 0 0 0 0 0 0 0 0 0 0 0
Event 7:
0 0 0 0 0 0 0 0 0 0 0 0
Event 8:
0 0 0 0 0 0 0 0 0 0 0 0
Event 9:
0 0 0 0 0 0 0 0 0 0 0 0
Event 10:
0 0 0 0 0 0 0 0 0 0 0 0
Alarm 1: Door
0 0 0 0 0 0 0 0 0 0 0 0
Alarm 2:
0 0 0 0 0 0 0 0 0 0 0 0
Alarm 3:
0 0 0 0 0 0 0 0 0 0 0 0
Alarm 4:
0 0 0 0 0 0 0 0 0 0 0 0
Power On/Off
0 0 0 0 0 0 0 0 0 0 0 0
Manager Menu Access
0 0 0 0 0 0 0 0 0 0 0 0
Service Menu Access
0 0 0 0 0 0 0 0 0 0 0 0
Incorrect Password
0 0 0 0 0 0 0 0 0 0 0 0
Date & Time
0 0 0 0 0 0 0 0 0 0 0 0

```

} A

Last Reviewed: is the time and date the Event Frequency data was last viewed or printed.

Each of the **Hours:** column heading, 00 through 23, represents a 1-hour period starting at midnight (00).

Each of the events on the Event Frequency Report is self-explanatory, with the exception of the following events.

Power On/Off reports when power to the VI-POSCON System is turned off and then on again. If **Audit Trail** is enabled, when power is restored to the VI-POSCON System, it sends a line to the printer indicating the time power was restored. One line is printed for each Data channel.

Manager Menu Access reports when the user accessed the Manager Menu. If **Audit Trail** is enabled, the system sends a line to the printer indicating the time of access.

Service Menu Access reports when the user accessed the Service Menu. If **Audit Trail** is enabled, the system sends a line to the printer indicating the time of access.

Incorrect Password reports when the user entered an invalid password in an attempt to access the Manager Menu or Service Menu. If **Audit Trail** is enabled, the system sends a line to the printer indicating the time the password was attempted.

Date & Time reports when the user changed the VI-POSCON Controller date & time.

For information about defining events and printing Event Frequency Reports, see **Using the VI-POSCON System** (page 6).

The following is an explanation of the four lines (area "A") below the report title.

Store Ident.: is the name of the store.

For Channel: indicates the Data Channel (all or 1 through 4) being reported).

For Period From: and **To:** identify the period of time the report covers. **Period From:** indicates the time and date the Frequency data was last cleared. **To:** is the current time and date.

Daily Report

This report identifies the total number of events occurring per hour for each active exception and alarm for a specific day only. The following is an example of a 40-column Daily Report for hours 00 through 11.

```

DAILY REPORT
-----
Store Ident.: Discounts-R-Us #4
For Channel: ALL
16/05/01 Wednesday

Hours:
00 01 02 03 04 05 06 07 08 09 10 11
Event 1: Refund > 24.99
0 0 0 0 0 0 0 0 0 0 0 0
Event 2: Void > 9.99
0 0 0 0 0 0 0 0 0 0 0 0
Event 3: No Sale2
0 0 0 0 0 0 0 0 0 0 0 0
Event 4: Handbag < 25.00
0 0 0 0 0 0 0 0 0 0 0 0
Event 5: Check > 49.99
0 0 0 0 0 0 0 0 0 0 0 0
Event 6: Charge Card > 99.99
0 0 0 0 0 0 0 0 0 0 0 0
Event 7:
0 0 0 0 0 0 0 0 0 0 0 0
Event 8:
0 0 0 0 0 0 0 0 0 0 0 0
Event 9:
0 0 0 0 0 0 0 0 0 0 0 0
Event 10:
0 0 0 0 0 0 0 0 0 0 0 0
Alarm 1: Door
0 0 0 0 0 0 0 0 0 0 0 0
Alarm 2:
0 0 0 0 0 0 0 0 0 0 0 0
Alarm 3:
0 0 0 0 0 0 0 0 0 0 0 0
Alarm 4:
0 0 0 0 0 0 0 0 0 0 0 0
Power On/Off
0 0 0 0 0 0 0 0 0 0 0 0
Manager Menu Access
0 0 0 0 0 0 0 0 0 0 0 0
Service Menu Access
0 0 0 0 0 0 0 0 0 0 0 0
Incorrect Password
0 0 0 0 0 0 0 0 0 0 0 0
Date & Time
0 0 0 0 0 0 0 0 0 0 0 0
    
```

The following is an example of a 40-column Daily Report for hours 12 through 23.

```

DAILY REPORT
-----
Store Ident.: Discounts-R-Us #4
For Channel: ALL
16/05/01 Wednesday

Hours:
12 13 14 15 16 17 18 19 20 21 22 23
Event 1: Refund > 24.99
0 0 0 0 0 0 0 0 0 0 0 0
Event 2: Void > 9.99
0 0 0 0 0 0 0 0 0 0 0 0
Event 3: No Sale2
0 0 0 0 0 0 0 0 0 0 0 0
Event 4: Handbag < 25.00
0 0 0 0 0 0 0 0 0 0 0 0
Event 5: Check > 49.99
0 0 0 0 0 0 0 0 0 0 0 0
Event 6: Charge Card > 99.99
0 0 0 0 0 0 0 0 0 0 0 0
Event 7:
0 0 0 0 0 0 0 0 0 0 0 0
Event 8:
0 0 0 0 0 0 0 0 0 0 0 0
Event 9:
0 0 0 0 0 0 0 0 0 0 0 0
Event 10:
0 0 0 0 0 0 0 0 0 0 0 0
Alarm 1: Door
0 0 0 0 0 0 0 0 0 0 0 0
Alarm 2:
0 0 0 0 0 0 0 0 0 0 0 0
Alarm 3:
0 0 0 0 0 0 0 0 0 0 0 0
Alarm 4:
0 0 0 0 0 0 0 0 0 0 0 0
Power On/Off
0 0 0 0 0 0 0 0 0 0 0 0
Manager Menu Access
0 0 0 0 0 0 0 0 0 0 0 0
Service Menu Access
0 0 0 0 0 0 0 0 0 0 0 0
Incorrect Password
0 0 0 0 0 0 0 0 0 0 0 0
Date & Time
0 0 0 0 0 0 0 0 0 0 0 0
    
```

End of Day Detailed Event Report

This report provides the details for enabled EPoS events and alarms that have occurred and is only printed at the end of the day (i.e. midnight) for a specific day only. It can be printed instead of or as well as the End of Day Daily Report. The report lists the events in chronological order. The Exception column shows the Event Amount and the test condition. The following is an example of the 40-column report.

DETAILED EVENT REPORT			

Store Ident.: Discounts-R-Us #4			
End of Day : 16/05/01 Wednesday			
Event	Exception	Amount	Priority

Date	Time	Ch Register	Id.

Manager Menu Access			
16/05/01	14:30:00	1 Front #1	

If EPoS Events or Alarm Events are prioritised (see **Setting Event Priority**, page 10), the Priority column indicates how the system handled each event. If the system fully handled the event, it places a "/" into the Priority column. If an event was not fully handled (because a higher-priority event was being handled at the time), the system places an "x" into the Priority column.

If events are not prioritised, all events are fully handled and the system places a "/" into the Priority column.

In Date & Time Event and Daylight Saving Event, the first date & time field (i.e. before the "->") indicate the VI-POSCON System date & time when the change was made. The second date & time field (i.e. after the "->") indicate the new VI-POSCON System date & time.

Event Audit Trail

If **Audit Trail** is enabled (page 11), the system printer records enabled EPoS events and alarms as they occur. The printer data is in the same format as the Detailed Event Report without the title or column headings. The following is an example of the printout.

Manager Menu Access			
16/05/01	14:30:00	1 Front #1	
Refund	>	24.99 32.50	/
17/05/01	09:15:00	1 Front #1	
Void	>	9.99 15.25	/
17/05/01	10:29:00	3 Rear #1	
No Sale			/
17/05/01	13:22:00	2 Front #2	
Handbag	<	25.00 5.00	/
17/05/01	14:20:00	3 Rear #1	
Check	>	49.99 75.00	/
17/05/01	16:37:00	1 Front #1	
Charge Card	>	99.99 475.00	/
17/05/01	18:42:00	2 Front #2	
Door			/
17/05/01	20:10:00	3 Fire Exit #1	
Power On/Off			
17/05/01	20:55:00	1 Front #1	
Power On/Off			
17/05/01	20:55:00	2 Front #2	
Power On/Off			
17/05/01	20:55:00	3 Rear #1	
Power On/Off			
17/05/01	20:55:00	4 Data	
Incorrect Password		=1357	
17/05/01	20:58:00	1 Front #1	
Manager Menu Access			
17/05/01	21:00:00	1 Front #1	
Date & Time	17/05/01 21:01:00	->	
17/05/01	22:00:00	1 Front #1	

Specifications

Electrical

Controller (not including Tri-rail LV PSU)	
Primary Input.....	+12Vdc, -12Vdc, +5Vdc
Current Draw.....	120mA @ 12Vdc, 20mA @ -12Vdc, 500mA @ +5Vdc

Mechanical

(Approximate U.S. customary measurements are shown in parenthesis.)

Controller

Height.....	4.9 cm (over feet) (1.9 in. (over feet))
Width.....	43.4 cm (17.0 in.)
Depth	32.5 cm (over connectors) ((13.0 in. (over connectors))
Weight.....	3.9 kg (8.6 lbs)

Environmental

Controller

Operating Temperature....	0 °C to 55 °C (32 °F to 131 °F)
Humidity	0 to 85% non- condensing

Declarations

Regulatory Compliance

Emissions	FCC Part 15, (CFR47) for a Class B digital device
.....	EN 55022 Class B
Immunity	EN 55024
Safety	LVD (EN60950)
.....	UL 1950 3 rd Edition
.....	IEC 60950

FCC COMPLIANCE: This equipment complies with Part 15 of the FCC rules for intentional radiators and Class A digital devices when installed and used in accordance with the instructional manual. Following these rules provides reasonable protection against harmful interference from equipment operated in a commercial area. This equipment should not be installed in a residential area as it can radiate radio frequency energy that could interfere with radio communications, a situation the user would have to fix at their own expense.

EQUIPMENT MODIFICATION CAUTION:

Equipment changes or modifications not expressly approved by Videoswitch, the party responsible for FCC compliance, could void the user's authority to operate the equipment and could create a hazardous condition.

Other Declarations

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