VPON

Video Surveillance for Retail

Point-Of-Sale (POS)

Software Operation Guide

MODELS

VP-5804 / 5808
VP-404 / 4048
VP-408 / 412 / 416

Formosa21.Inc

Preface

Notice

The information in this manual was current when published. The manufacturer reserves the right to revise and improve its products. All specifications are therefore subject to change without notice. Formosa21 will not be obligated to the responsibility outside the scope of VPON DVR.

Trademarks

VPON ® is a registered trademark of Formosa 21 Inc.

Microsoft, Windows, Internet Explorer ® are registered trademarks of Microsoft Corporation. Netscape, Navigator, Communicator ® are registered trademarks of Netscape Corporation. Other brand and product names referred to in this manual are trademarks or registered trademarks of their respective holders.

Trademarked names are used throughout this manual. Rather than place a symbol at each occurrence, trademarked names are designated with initial capitalization. Inclusion or exclusion is not a judgment on the validity or legal status of the term.

Warning

To reduce risk of electric shock, do not remove cover. No user service-able parts inside. Refer servicing to qualified service personnel.

Do not expose this appliance to rain or moisture.

Do not install this product in hazardous areas where highly combustible or explosive products are stored or used.

Severe impact or vibration may cause malfunction.

Do not move this product when VPON is working.

Position it in an open space with flat surface, and also maintain at least 15 cm between the left and right sides of the body and the wall.

The lightning flash/arrowhead symbol, within and equilateral triangle, alerts the user to the presence of a shock hazard within the product's enclosure.

GUARANTEE

Every care has been taken in the preparation of this manual; if you detect any inaccuracies or omissions, please inform FORMOSA21, INC. in Taiwan or your local distributor. FORMOSA21 cannot hold responsible for any technical or typographical errors and reserves the right to make changes to the products and manuals without your prior notice. FORMOSA21 makes no warranty of any kind with regard to the material contained within this document, including, but not limited, the implied warranties of merchantability and fitness for a particular purpose. FORMOSA21 shall not be liable or responsible for incidental or consequential damages in connection with the furnishing, performance or use of this material.

Warranty does not cover

Damage caused by willful or accidental mishandling, removal of VPON warranty labels, environmental conditions, including, electrical surges. Warranty will be voided if any of these conditions occur.

Important information

Before proceeding, please read and observe all instructions and warnings contained in this manual. Retain this manual with the original bill of sale for future reference and, if necessary, warranty service.

When unpacking your VPON unit, check for missing or damaged items. If any item is missing, or if damage is evident, **DO NOT INSTALL OR OPERATE THIS PRODUCT.** Contact your dealer or us for assistance.

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Operate POS functions

Important information

If you would like to have the POS function, Please contact your dealer or the manufacturer for a license key first.

Summary:

Under OSD interface operation

1.1   How to get the License Key

1. There are two ways to grant POS license. One is key-in license key; the other one is plug-in a key-pro. So if you plug-in a key-pro you don't need to key in the license number again in the license setup menu.
2. Suppose your DVR should be had a license key. If you don't see any license key in the license setup of OSD menu for VP-4xx, VP-5xx VPON DVR system, please find out the license key number on the VPON warranty card. We will stick it on the back of VPON DVR machine. For VP-100 user, please plug-in a key-pro that come with VP-207 POS upgrade kit package into the print port of Motherboard.
3. Power on the VPON DVR

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4. Press menu button on the controller and select <u>system setup</u> then press right arrow button to enter the <u>License Setup</u> function.
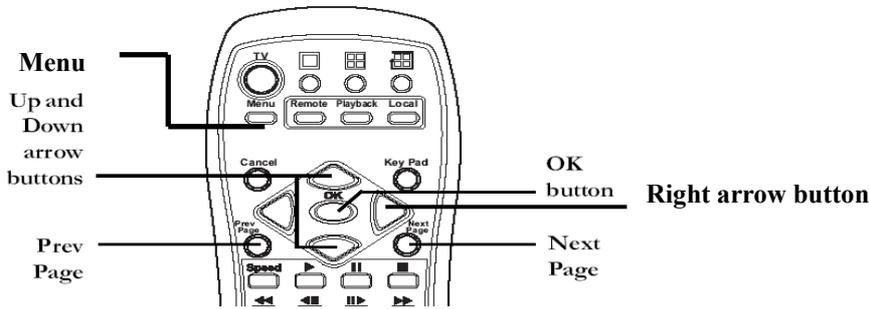
5. Press Key Pad button on the controller to display the on screen keyboard. Key in your Own License Key and press OK button to save it.
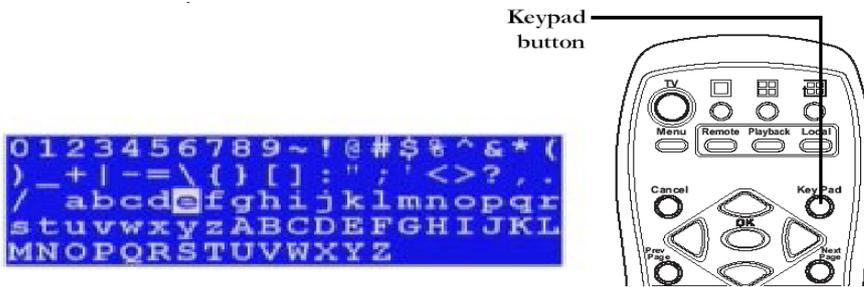
6. Select **Register Now** section and press the right arrow button on the controller. After registering you will get the POS function.

Note: The license in the following is an example only. Each DVR should have different license number. Please contact us for get a license.

```
License Setup
Serial No-86FLDCQU
License Key-UMGY9SQRA9J2AL
Register Now...
Licensed Func.
    POS
```

7. VPON DVR will reboot after register POS license.
8. After restarting VPON DVR please check firmware version in the system information menu first. If the Firmware version of your DVR is "X . XX POS", you can continue to set up the other functions.

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```
System Information
Boot-DOM/CF/Disk
IP-10.11.2.142
Mask-255.255.0.0
MacID-00:40:F4:6A:A2:B6
Start-2004/12/22 10:09:36
FW Ver-1.11POS
FW Date-Dec 20 2004 10:04
Model-100/400
Disk Size-39946MB
Disk Used-17640MB(44.1%)
Rec Period-158 hr
```

1.2 Device setup

If you use VP209 DVR/POS connection Cable package, please refer to the other VP209 install menu.
If you use VP-205 POS Signal Extender package, please refer to the other VP205 install menu.
If you use VP206 POS-to-Ethernet Package, please refer to the other VP206 install menu.

1.3 Alarm Setting

User can specify any keyword in the transaction data for Data Event Alerting. Such as **VOID** or **NO SALE**.

1. Press Menu button on the controller and select system setup then enter alarm setup function.
2. Select POS Event section.

```
Alarm Setup
Motion Detection
E-Mail
Video Popup(sec)-12
Voice Call
POS Event
Set Action
```

3. You can define events by numeric characters such as selling prices or abnormal text, for example: "VOID", "NO SALE" or "999"…. etc. Press "next page" on keypad to set up next POS unit if there is more than one cash register.
4. You can enter at most 20 POS events. Once the captured POS data contains one of the defined POS events, VPON triggers actions for the event. For example, you can enter VOID and NO SALE in the POS Event respectively.

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```
POS Event (1/2)
1-VOID
2-NO SALE
3-
4-
5-
6-
7-
8-
9-
10-
                              Next
```

5. Back to the <u>Alarm setup</u> menu and select the <u>Set Action</u> function to set up reaction when event was trigged.

6. Select the <u>POS</u> section in the Event List menu.

```
Event List
Motion Detection
Video Lost
Disk Space Low
Disk Error
POS
```

7. You can define how the VPON DVR reacts after specific data from the POS machine was captured.

```
Action List
Beep-ON
E-Mail-ON
Voice Call-ON
```

8. **Beep**- beeps when the event was occurred.

9. **E-mail**- sends e-mail to the specified address when the event was occurred.

10. **Voice call**- dial a voice call to the specified number when the event was occurred

> **Note:** Please refer the VPON DVR software user manual **Chapter3.3.13 Alarm setup** for more detail.

11. Back to the live video after setting alarm. You can try to cancel a transaction from the POS machine and VPON DVR should alerts.

> **Note:** Because that the text was captured from the POS machine, you should check which text would be sent from the POS machine, then set appropriate text in POS Event.

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1.4 Play recorded file

Search By Text:

Search video files based on text (POS transaction data)

1. Press Menu button on the controller and select the Playback Menu.
2. Select the Search by Text section.

```
Playback  Menu
Search  by  Time
Search  by  Event
Lock  File!
Backup
Search  by  Text
```

3. You can search by any keyword base on POS transaction data (text).
4. We recommend you to **narrow down** searching day, time and cameras to get faster response.
5. Press **OK** button on the controller when done to conduct the search.

```
Search  by  Text  (1/2)
Text:cash
Start  Year-2004
Start  Month-10
Start  Day-8
Start  Hour-17
Start  Minute-28
Start  Second-43
Stop  Year-2004
Stop  Month-11
Stop  Day-3
Stop  Hour-18
Stop  Minute-4
Stop  Second-39
Camera  1-ON
Camera  2-ON
Camera  3-ON
Camera  4-ON
Camera  5-ON
                        Next
```

6. After searching you will get the result. Press the right arrow button on the controller to play file.

```
Result  (1/4)
2004-11-03   17:57:43
2004-11-03   17:56:07
2004-11-03   17:54:00
2004-11-03   17:53:44
2004-11-03   17:49:20
2004-11-03   17:49:19
2004-11-03   17:49:19
2004-11-03   17:44:08
2004-11-03   17:44:07
2004-11-03   17:44:07
2004-11-03   17:42:17
2004-11-03   17:42:17
2004-11-03   17:42:11
2004-11-03   17:42:10
2004-11-03   17:42:03
2004-11-03   17:42:02
2004-11-03   17:42:02
                        Next
```

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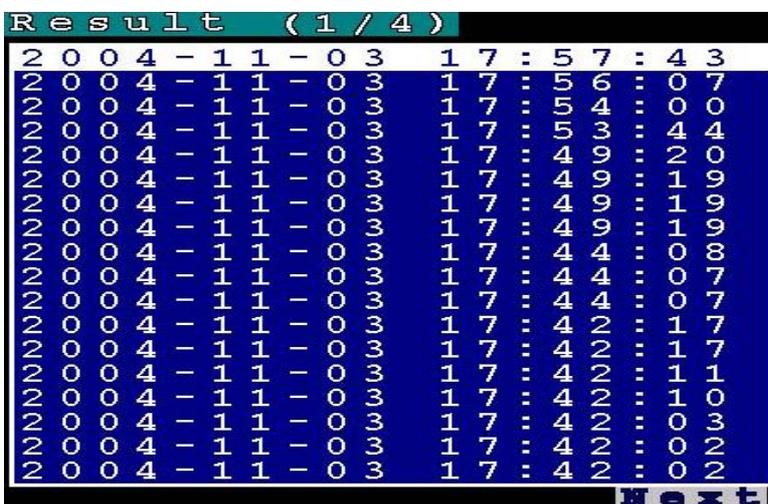
2. Under the GUI Interface:

2.1 Register:

1. There are two ways to grant POS license. One is key-in license key; the other one is plug-in a key-pro. So if you plug-in a key-pro you don't need to key in the license number again in the license setup menu.

2. Suppose your DVR should be had a license key. If you don't see any license key in the menu, For VP-4xx, VP-5xx VPON DVR system user, please find out the license key number on the VPON warranty card. We will stick on the back of VPON DVR machine. For VP-100 user, please plug-in a key-pro that come with VP-207 POS upgrade kit package into the print port of Motherboard.

3. Power on the VPON DVR

4. Click the "**Set Up**" button to display the System Setup menus and select the License section.

Note: The license in the following is an example only. Each DVR should have different license number. Please contact us for get a license.
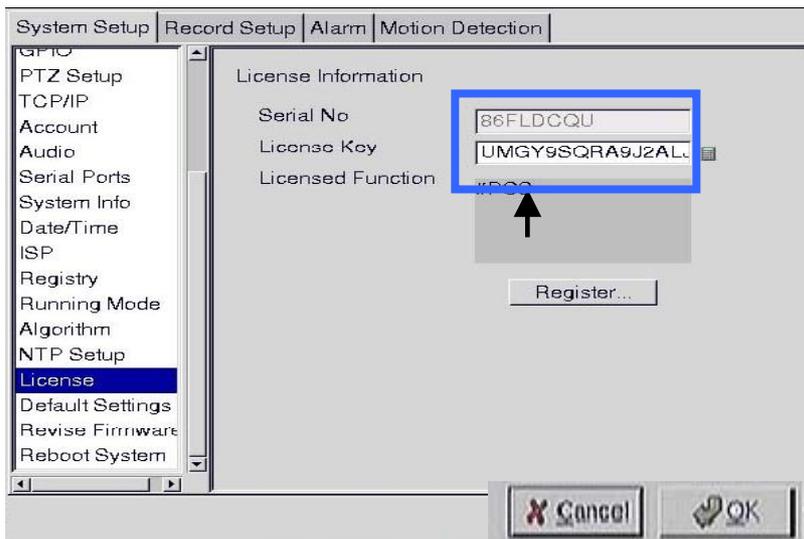
5. Key in your own license key.

Note: If you don't have a keyboard connected to the system, you can use the on-screen keyboard to enter your license key. Double-click the field to display the on-screen keyboard .Use the mouse to enter characters for the required field.

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6. Click the Register button. You will get the POS function after registering
7. Back to the live display. Click <u>POS</u> button to display the POS Panel. You can try to send out some data from POS machine then POS text should show up with video.

Note: If you want POS text show up on POS panel, please change to view single video first.

Step2: POS text will be shown on the POS panel.

Step1: Change to single video image.
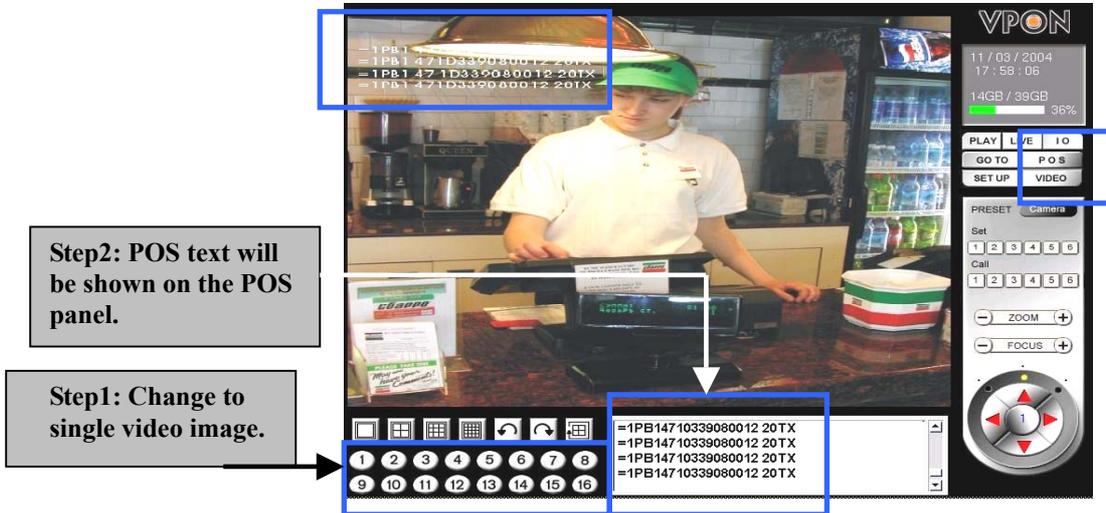
2.2 Device setup

If you use VP209 DVR/POS connection Cable package, please refer to the other VP209 install menu.

If you use VP-205 POS Signal Extender package, please refer to the other VP205 install menu.

If you use VP206 POS-to-Ethernet Package, please refer to the other VP206 install menu.

2.3 Alarm Setting

User can specify any keyword in the transaction data For Data Event Alerting. Such as VOID and NO SALE

1. Click Setup button on the screen and select <u>Alarm</u> then enter <u>Alarm setup</u> function.

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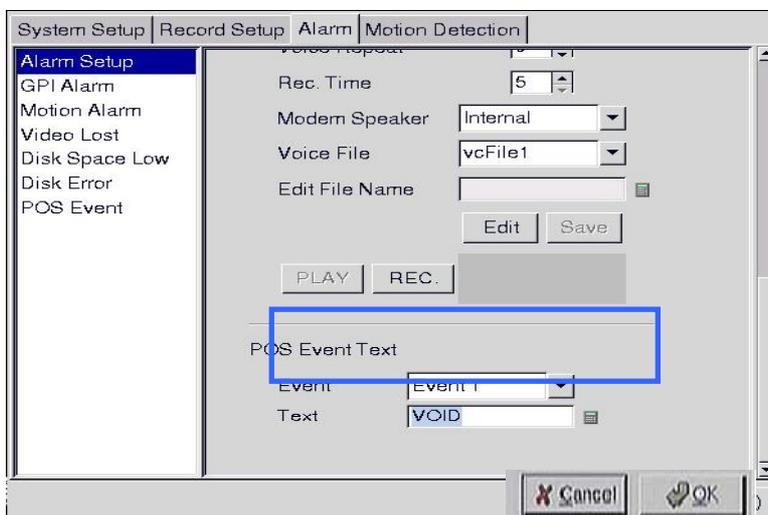
2. You can define events by numeric characters such as selling prices or abnormal text such as "VOID" or "NO SALE".

3. You can enter at most 20 POS events. Once the captured POS data contains one of the defined POS events, VPON triggers actions for the event. For example, you can enter VOID and NO SALE in the POS Event respectively.

4. Select the <u>POS Event</u> function and start to set up reaction when receiving the text data from POS machine.

5. You can define how the VPON DVR reacts when receiving the text data from POS machine.
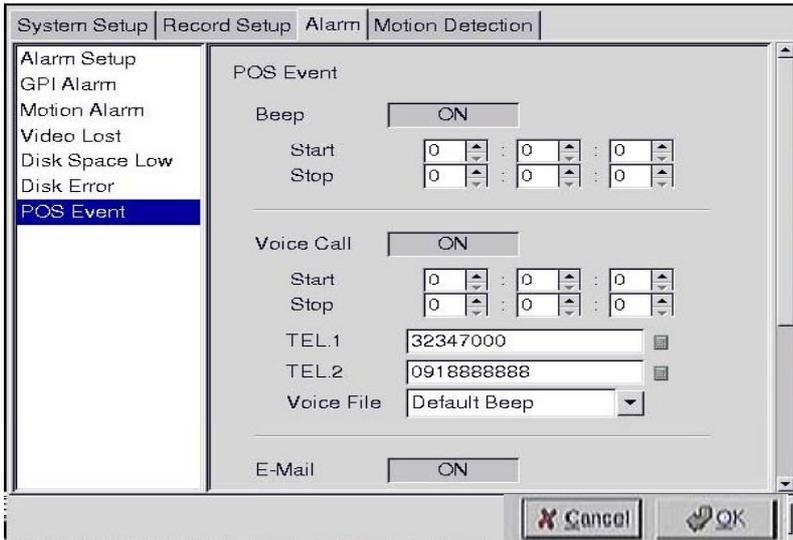
6. **Beep**- beeps when the event was occurred.
7. **E-mail**- sends e-mail to the specified address when the event was occurred.
8. **Voice call**- dial a voice call to the specified number when the event was occurred
9. Back to the live video after setting alarm. You can try to cancel a transaction from the POS machine and VPON DVR should alerts.

Note: Please refer VPON DVR software user manual Chapter4 Alarm setup for more detail.

Note: The text was captured from the POS machine; you should check which text would be sent from the POS machine, then set appropriate text in POS Event.

2.4 Play recorded file

Search By Text

Search video clips based on text (POS transaction data)

1. Click **GO TO** button and select search by Text.
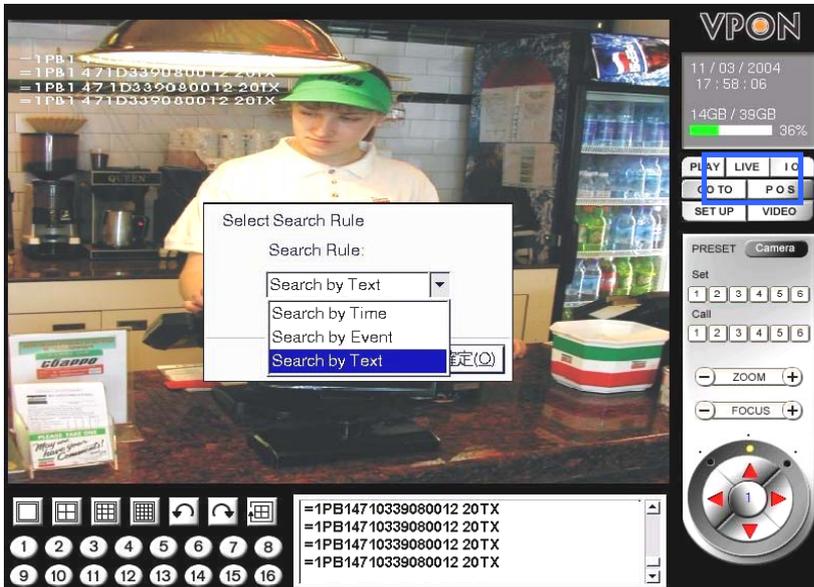
2. You can search by any keyword base on POS transaction data (text) .
3. If you want to find out data faster, we recommend you to narrow down searching day, time and cameras to get faster response.
4. Press **OK** button when done to conduct the search.
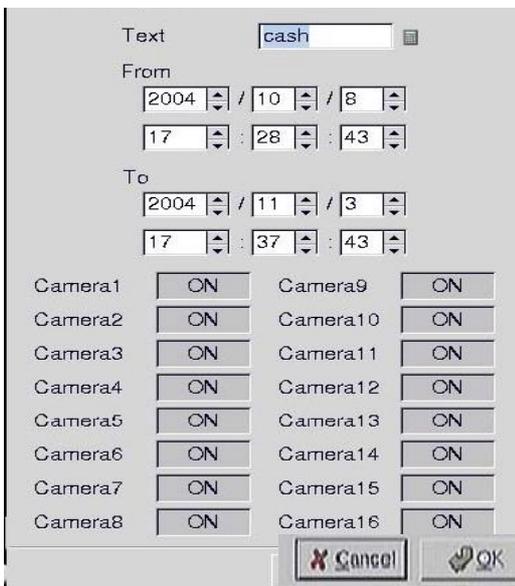
5. After searching you will get the result. Click the file and play it.
6. The searching result would be revealed on the screen after a few seconds. You could select the timer of the recorded file by the mouse and click the play button to play the recorded file.
7. The system would automatically save the last result of searching the POS data. Please use the clean button to clean last searching result for searching another new files.
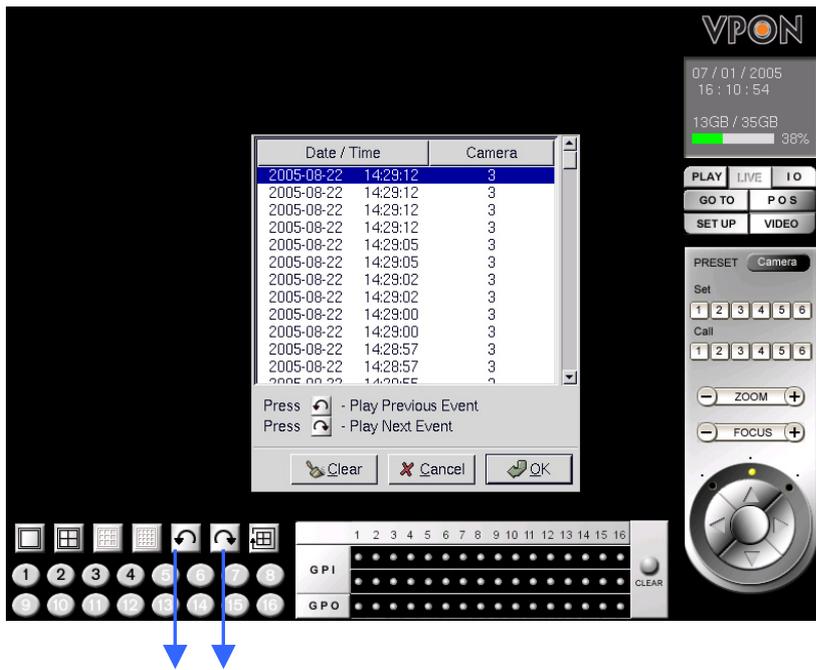
8. Please click the [icon] to play the previous pos event or click the [icon] to play the next pos event during the playing recorded file.

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3. Video and POS transaction data can be viewed on an Internet browser.

1. Can overlay texts on live video and on playback video
2. Can specify font, color and size of the overlaid texts
3. Can display and search DBCS characters. e.g. Chinese, Japanese characters

3.1 Live View through Internet

1. Type the IP address of the VPON DVR in the browser address bar.
2. If POS machine has sent out the transaction data you can see as follow

POS Text
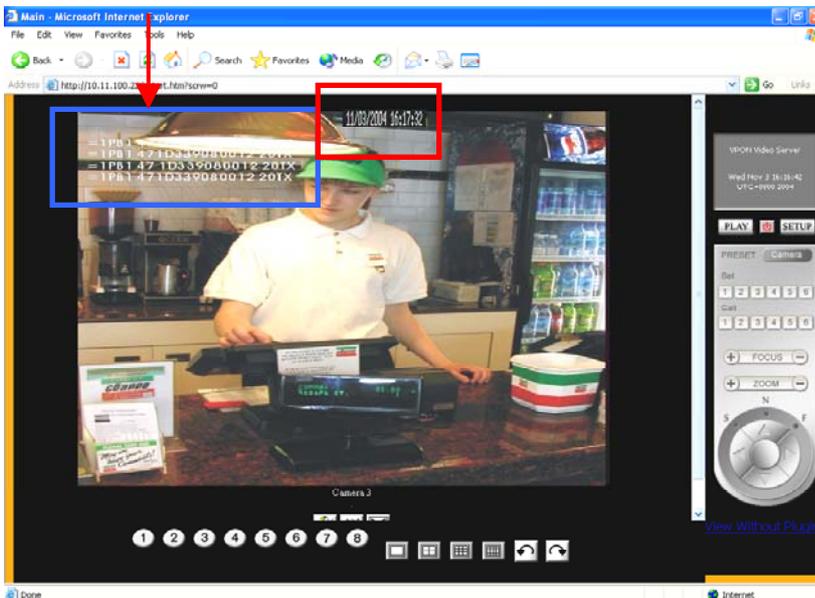
3. You can also play recorded files in the browser. Clicks play button on the screen then you will see the file list.
4. Click and play the file.

Key-in the time frame you want

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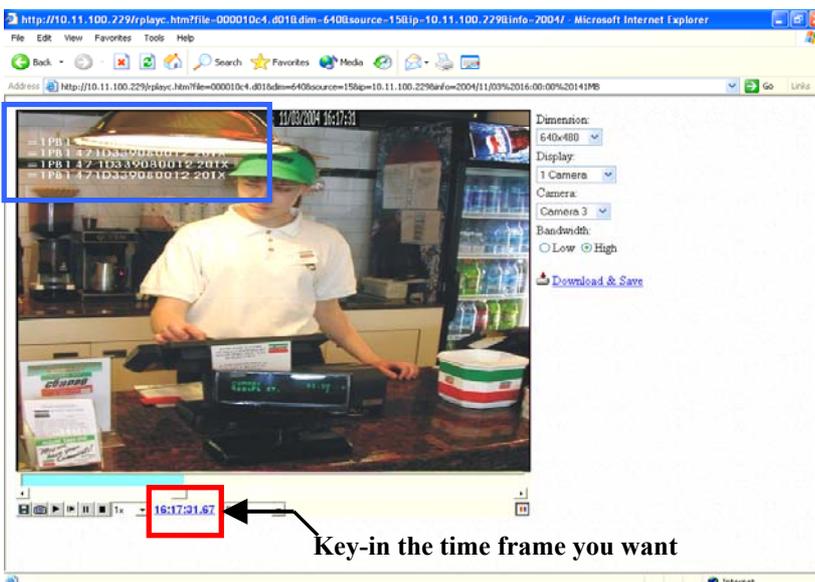
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5. Key-in the specific time to get VPON DVR reaches the point you want to see faster.

Note: Please refer to the VPON DVR software user manual Chapter5 Network operation for more detail.

3.2 Save the POS transaction data via browser.

1. If you want to save the current video, please click the right key of the mouse then will pop-up the function menu.   User can click the "snapshot button" to save the video, or use the "save button" to save the video.

3.3   Change POS text color on the screen. (Remote browsing only)

1. Click <u>setup </u>button and enter the submenu
2. Select the<u> set pos</u> function then you can set up the color and font size.

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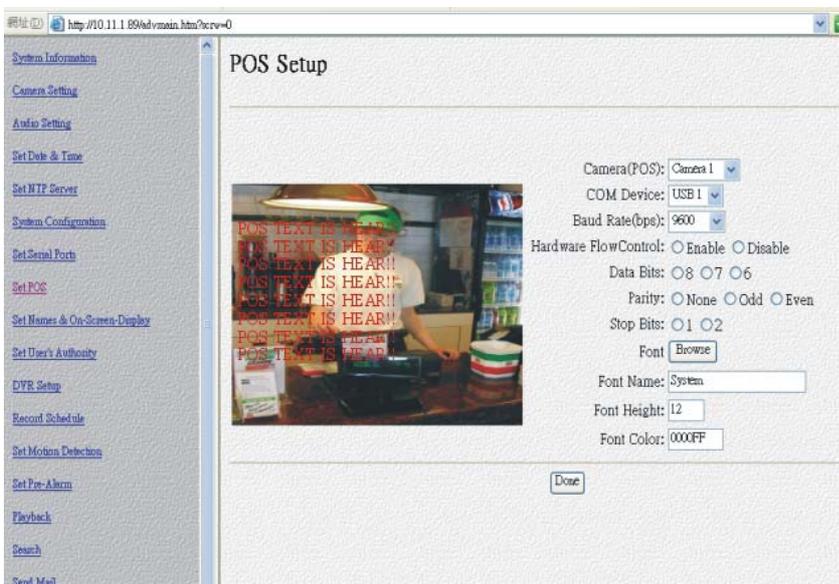
3.4 Search By Text

Note: Can display and search DBCS characters

Search video clips based on text (POS transaction data)

1. Click <u>search</u> button and enter the submenu.

2. You can search by any keyword base on POS transaction data (text) .

3. If you want to find out data faster, we recommend you to narrow down searching day, time and cameras to get faster response.

4   Press **Query** button when done to conduct the search.

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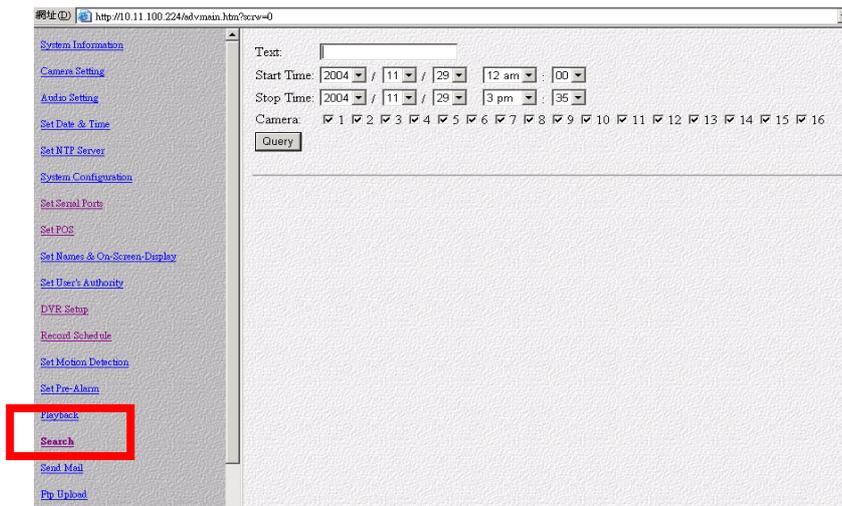
FAQ:

Q: If the text was not displayed on the screen
1. Check serial port settings
2. Check cable connection
3. In GUI mode, if the VGA uses Intel-based on-board VGA, the overlaid texts cannot be seen.

Q: The solution for long distance connection
1. VP-201 converter
2. VP-204 device

Q: The solution for multiple POS
1. Use VP-204 device
2. Support 16 POS for one VPON

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