

POS Integration Operation Guide

For HVR Server

1.1 POS/ATM Application

Effective POS/ATM surveillance system uses video text overlay technology to remotely monitor cashier area, associate POS/cash register transaction data with videos, record videos and save all transaction data in Microsoft Access format for retroactive analysis, Events Monitor feature even output alarms for emergency events.

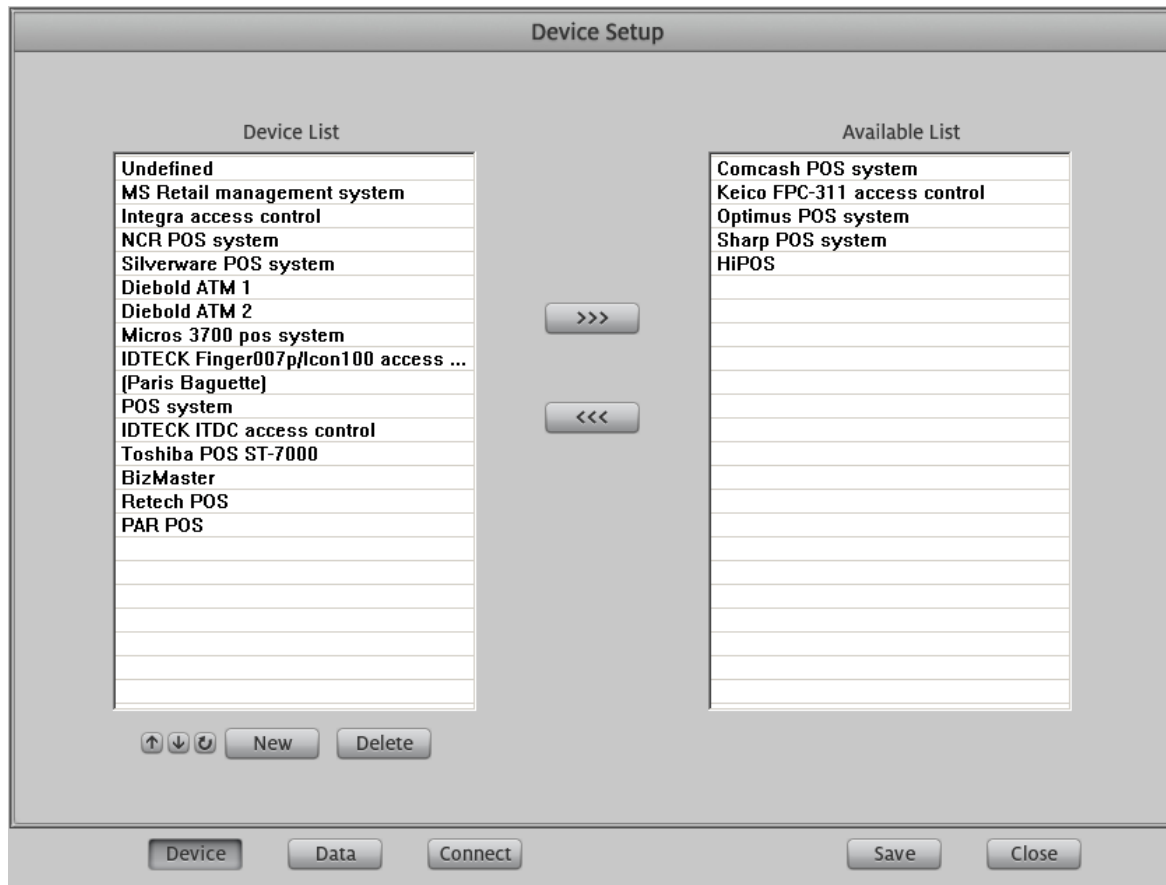
1.1.1 System Connections

HVR Server software supports up to 48 POS/Cash register devices to integrate into one PC. The connections are maximum 16 devices connect to COM port and maximum 32 devices connect to TCP port.

1.1.2 Device Setup

To use HVR POS function please set “ATM/POS Support” enable in the HVR System Configuration interface. In Tools panel click button  to enter POS/ATM device setup interface. There are 3 interfaces: Device Setup, Data Filter Settings and Connection Settings. See the following sections.

In the left of Device Setup interface Device List shows all POS/ATM machine brand names that HVR system supports. Move any device to the right Available List to be ready for use. If your device is not in list please click “New” button to add your device and name it for recognition. New device must be setup correctly before usage. Refer to next sections.






Click these buttons to order the device's names as up or down alphabet orders.

1.1.3 Data Setup

HVR system captures the data that transfer from a POS/ Cash Register device listed in Available List then analyze the data according to the rules here you setup. All rules must comply with the priority orders. By default, the priority of 1 is set to “Line”. The priority of 8 is set to “Addition” (from left to right).

1.1.3.1 Rule of Line

In below “Line” setup interface if there is no any line listed in the table, please click button “New” to add a new Line. “Line” means a row of data in the table. If the Line already exists in the table, “Update” button will show up to replace the “New” button. You can select an existing “Line” in table then click “Update” button to modify it. Of course you can delete a Line from the table by click “Delete” button. This operation feature applies to all Rules setup interface.

Device: Comcash POS system

Buttons: Line, Trans, Include, Exclude, Invalid, Replace, Event, Addition

Type	Position	Offset	Operation	Length	Data
Hexa	End	0	=	0	0A

Priority: 1

Type: Hex, Operation: =, Length: 0

Position: End, Offset: 0, Data: 0A

Buttons: Update, Delete

Bottom Buttons: Device, Data, Connect, Save, Close

Type: Choose a data type “Hexa” or “Ascii”

Operation: Select an operator used to compare ‘Data’ value with the data from POS device.

Position: Select the position to search the data string.

Offset: Set offset value.

Data: Set the Data to trigger the operation.

1.1.3.2 Trans

Set the rule of separating two sequential transactions. The setup operation steps are almost the same as Line (See above section).

1.1.3.3 Include

Set the rule of including a string or character to be displayed on screen. The setup operation steps are almost the same as Line (See above section).

1.1.3.4 Exclude

Set the rule of excluding a string or character to be displayed on screen. The setup operation steps are almost the same as Line (See above section).

1.1.3.5 Invalid

Set the rule of discarding a string or character. The setup operation steps are almost the same as Line (See above section).

Notice: If you set different rules with same “Data” value that causes confliction, the system will operate by priority orders. That means high priority rule will be executed.

1.1.3.6 Replace

Set the rule to replace a word or character by input “Data” value.

Data Type: Choose data type as ‘Hexa’ or ‘Ascii’.

Old Data: Input the original data string to be replaced.

New data: Input new data string to replace the old one.

1.1.3.7 Event

Set the rule to trigger an alarm operation by input “Data” value.

Beep: play sound warning.

Mark: Mark this event.

Popup: Pop up Event Monitor window.

1.1.3.8 Addition

Set an additional rule for quick search by input a “Data” value.

Data Filter Settings

Device: Comcash POS system

Line Trans Include Exclude Invalid Replace Event Addition

Type	Data	Notify

Priority: 4

Type: Hex Data:

☐ Beep ☐ Mark ☐ Popup

New Delete

Device Data Connect Save Close

1.1.4 Connection Setup

1.1.4.1 COM Setup

In Connection Settings interface there is a tree-view in the left that lists all available COM ports in the HVR system. Select the COM port that you are going to setup.

- 1 Grey color means this camera does not associate any COM port.
- 2 Light blue color means this camera associates other COM port.
- 3 Dark color means this camera associates current COM port.

After finish setup, please click “Test” button to test whether the POS device connection is successful.

Connection Settings

Com Setup
COM1
COM2
Lan Setup
Cam Setup

Device: Comcash POS syst
Name: COM1
Baud: 9600
Stop: 1
Data: 8
Parity: None

Associated Cameras

Test

Device Data Connect Save Close

Device: Select the device connecting to this COM port.

Name: Name this connection

Parameters: Set the parameters of this COM port, includes Baud Rate, Stop Bit, Data Bit and Parity.

Associated Cameras: Choose the cameras that associate above selected device. The camera number button has three status colors:

1.1.4.2 LAN Setup

HVR system supports multiple POS device connections through single TCP/IP connection (32 in total). But every POS device must have an exclusive port number. To setup a LAN connection, please choose LAN from tree-view list firstly.

- 1 Grey color means this camera does not associate any LAN port.
- 2 Light blue color means this camera associates other LAN port.
- 3 Dark color means this camera associates current LAN port.

After finish setup, please click “Test” button to test whether the POS device connection is successful. If not, please use PING command to test the network connection and change the port number to try again.

The screenshot shows a 'Connection Settings' window. On the left is a tree view titled 'Lan Setup' containing a list of LAN ports from LAN1 to LAN22. LAN1 is highlighted with a dark blue background. To the right of the tree are four configuration fields: 'Device' is a dropdown menu showing 'HIPOS'; 'Name' is a text box containing 'LAN1'; 'Protocol' is a dropdown menu showing 'TCP'; and 'Port' is a text box containing '6001'. Below these fields is the label 'Associated Cameras'. At the bottom right of the main window area is a 'Test' button. At the very bottom of the window are five buttons: 'Device', 'Data', 'Connect', 'Save', and 'Close'.

Device: Select the device connecting to this LAN port.

Name: Name this connection

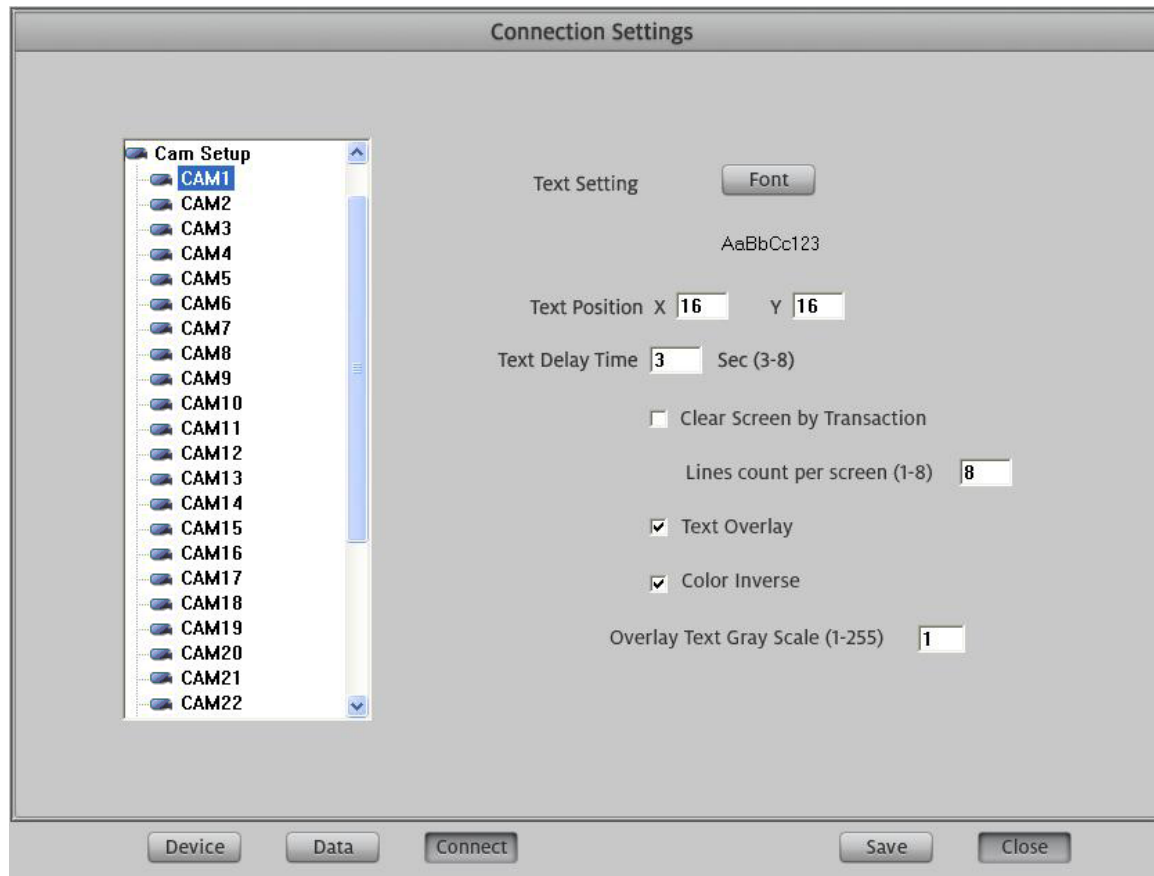
Protocol: Set network protocol (Supports TCP or UDP)

Port: Change port number to match the POS device TCP or UDP port number.

Associated Cameras: Choose the cameras that associate above selected device. The camera number button has three status colors:

1.1.4.3 CAM Setup

From left tree-view list, click a camera icon to configure its parameters as below.



Font: Click “Font” button to change font, size and color.

Text Position: Set the overlay text position on screen. Default is on top of the screen.

Text delay time: Set the idle time of overlay text shows on screen. (3-8 second).

Clear screen by transaction: Keep overlay text displaying until transaction break is delivered.

Lines count per screen: Set the number of lines (1-8) to display overlay text. Disable if “By Transaction” is displaying.

Text Overlay: Check it to enable on screen overlay feature. If not checked, it is still possible to view the overlay text in the Search and Remote Monitor.

Color Inverse: Set auto-change the darkness of font according to background picture.

Overlay Text Gray Scale: Set font gray scale.

ACU & POS Setup

ACU&POS Parameter Setup POS Field Filter Setup

ID	Key Word
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Keyword

Color

☐ Only work between:

☐ Enable Alarm

☐ Alarm Output

Alert Message

Save

Exit

ACU & POS Setup

ACU&POS Parameter Setup POS Field Filter Setup

☒ Show ACU & POS Server

Max. Show Record Count Max. Search Record Count

Playback Settings

Forward Time sec. Backward Time sec.

Save

Exit

In the “ACU&POS Parameter Setup” interface you can set how many POS transaction records and how many search records to display in one search page. The maximum count is 1000.

In the “POS Field Filter Setup” interface you can set keyword font color for quick search, for example, set the color of EIGHT to red and the work time between 12:00:00 and 15:00:00, when the EIGHT appears in this period of time, it will display red on screen.

Choose a record and double click it. The video will display based on the setting of Forward Time and Backward Time.

Manufacturer: ILDVR DIGITAL TECHNOLOGY USA INC

Web site: www.ildvr.com

Tech-support: support@ildvr.com