

## DVR Integration

---



pcAmerica's security camera solution can help prevent major loss of dollars at your retail store or restaurant while improving profits and protecting your business. Our latest version of POS software interfaces with DVR-based camera systems and can yield a fast return on investment.

Each station in your establishment can have a camera ID associated with it (e.g. Station02 can have CAM2). Every time an invoice is changed, the change will then be sent to the server, where it will be relayed to the DVR computer. This change will then be overlaid as text on the video feed (camera ID associated with the original station). For example, if a cashier is on station 02 and they change the price of an item on the invoice, that change will then be sent to the server computer. The price change will then be relayed from the server to the DVR computer and be overlaid on the video feed CAM2.

1. Hardware Configuration in CRE/RPE - Serial
2. Software Configuration in CRE/RPE - Serial
3. Hardware Configuration in CRE/RPE – TCP/IP
4. Software Configuration in CRE/RPE – TCP/IP
5. Implementation

## Hardware Integration with CRE/RPE – Serial

**Note:** The DVR software should be open prior to the configuration.



1. Setup CRE/RPE including network and syncing all of your stations.
2. Connect CRE/RPE Server to the DVR computer via an Ethernet cable with serial adapters on each end.

## Software Integration with CRE/RPE - Serial

**Manager**

**Options**

1. Select the **Manager** or **Options** button.
2. Enter the administrator password (default: admin) where applicable.
3. Select **Setup** then, **Setup Screen**.

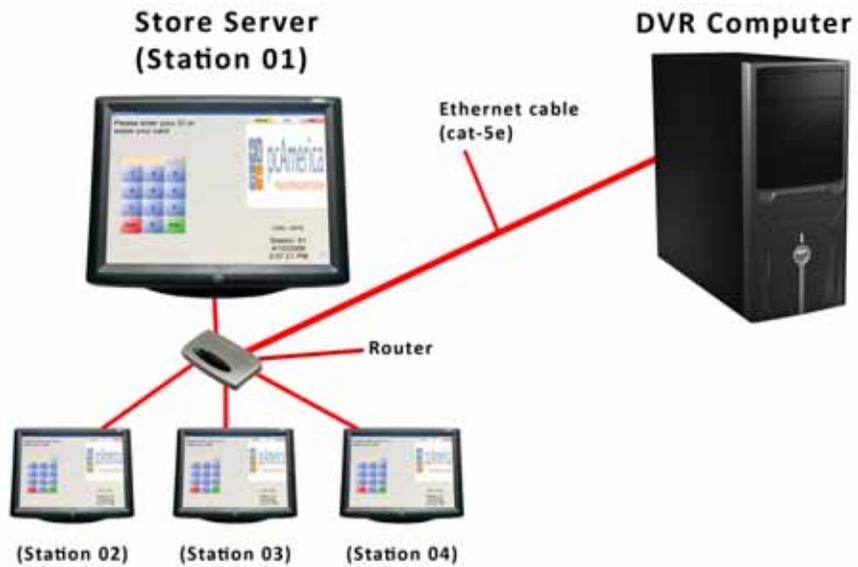
The screenshot shows the 'Setup Screen' window with the 'Hardware' tab selected. The 'Page 2' tab is also selected. The 'DVR' section is highlighted with red boxes, showing the following fields: 'Server IP or Name' (Station01), 'Server Port' (42001), 'Message Format' (Plain Text), 'DVR Type' (Serial), 'DVR COM Port' (1), and 'Camera ID' (1). The 'Update' button is also highlighted with a red box.

4. Select the **Hardware** tab and the select **Page 2**.
5. Under the **DVR** section when interfacing with a serial connection;
  - Input a **Server Name** or IP address, this will be the server station (e.g. Station01) and will be the same on all stations.
  - Under **Server Port** enter a port you would like to use, optionally you can leave it as 42001.
  - Under **Message Format** you can choose to have the data sent either as **Plain Text** or in **XML** format.
  - Under **DVR Type** select **Serial**.
  - **DVR COM Port** will be set to **1** and will be the same on all the stations.
  - **Camera ID** will be a number relating to a station in your store (e.g. Station01 will have camera ID 1, Station02 will have ID 2, etc...). This information will have to be specified on each station.
6. Select **Update** when finished.

**Note:** The above settings may be different depending on the DVR system that you are using.

## Hardware Integration with CRE/RPE – TCP/IP

**Note:** The DVR software should be open prior to the configuration.



1. Setup CRE/RPE including network and syncing all of your stations.
2. Connect the DVR computer to the network via an Ethernet cable to the router.

## Software Integration with CRE/RPE – TCP/IP

**Manager**

**Options**

1. Select the **Manager** or **Options** button.
2. Enter the administrator password (default: admin) where applicable.
3. Select **Setup** then, **Setup Screen**.

The screenshot shows the 'Setup Screen' window with the 'Hardware' tab selected. The 'DVR' section is highlighted with red boxes, showing the following fields and values:

- Server IP or Name: Station01
- Server Port: 42001
- Message Format: Plain Text
- DVR Type: TCP/IP
- DVR COM Port: 1
- Camera ID: 1
- DVR IP: 192.168.1.123
- DVR IP Port: 1234

The 'Update' button is also highlighted with a red box.

4. Select the **Hardware** tab and the select **Page 2**.
5. Under the **DVR** section when configuring the Ethernet integration;
  - Input a Server Name or IP address, this will be the server station (e.g. Station01) and will be the same on all stations.
  - Under Server Port enter a port you would like to use, optionally you can leave it as 42001.
  - Under **Message Format** you can choose to have the data sent either as **Plain Text** or in **XML** format.
  - Under **DVR Type** select **TCP/IP**.
  - **DVR COM Port** will be set to **1** and will be the same on all the stations.
  - **Camera ID** will be a number relating to a station in your store (e.g. Station01 will have camera ID 1, Station02 will have ID 2, etc...). This information will have to be specified on each station.
  - Under **DVR IP** enter the IP address of the DVR Computer.
  - Under **DVR IP Port** enter the port that the DVR server will allow incoming data on.
6. Select **Update** when finished.

**Note:** The above settings may be different depending on the DVR system that you are using.

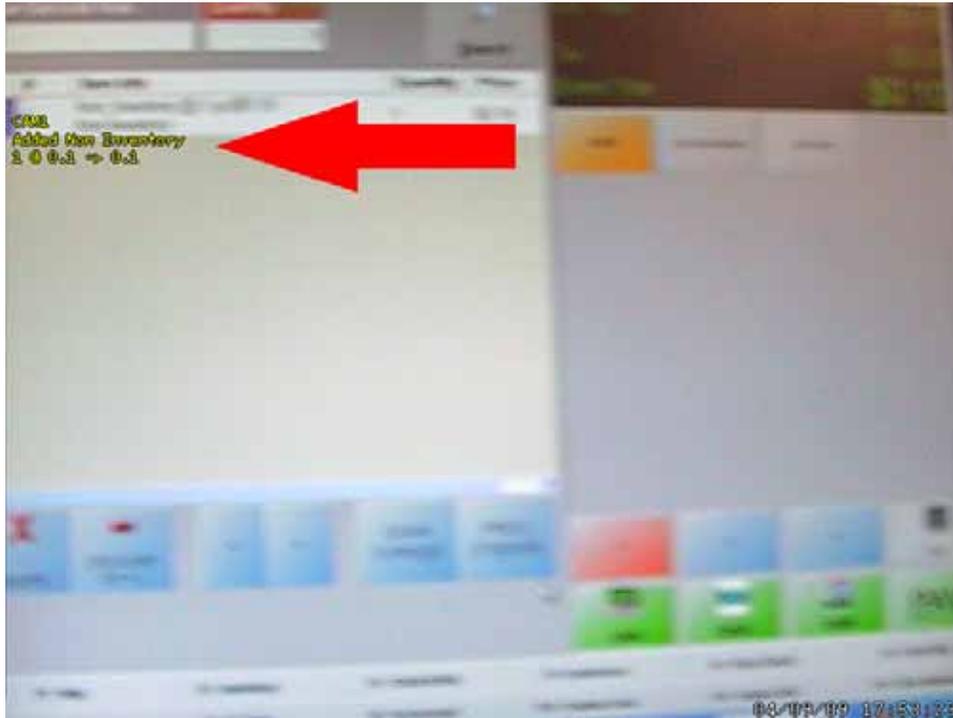
## Software Integration with CRE/RPE (Continued)



To start the service for the DVR System;

1. At the login screen select **File** and then go to **Security**.
2. On the server computer select **Start DVR Server** and then **Start DVR Client**. **MUST BE DONE IN THAT ORDER ON THE SERVER.**
3. On the client stations only select **Start DVR Client**.

## Implementation



When an invoice is modified you will see text overlaid on the video feed (camera id specific) which will show the following edits:

- Cash drawer opened
- Line discount given
- Invoice cancelled\voided
- Item added to transaction\check
- Cash count accepted
- Item deleted
- Item price changed
- Employee clock-in\clock-out
- Drawer transfers
- Receipt print-out
- Change given
- Item quantity changed
- Invoice discount given
- ID \ License Scan
- Payment applied
- Vendor payout created