EJournal™

User Manual

VRX Company Inc.

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Data Integrity Warnings

Warning do not rely on EJournal™ for capture of journal reports for accounting purposes. If you require your cash register reports for accounting you must continue to capture your journal data to your paper tape.
EJournal™is intended to capture the real time journal data from a point of sale system to allow occasional review of transactions details for non-accounting critical business control.

Release of Liability

You are allowed to use EJournal™ with the condition that you release VRX Company Inc from all liability due to lost data.

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Abbreviations

COM	Communications Port also known as a RS232 serial port
LED	Light Emitting Diode. In this document it also refers to a graphic simulating a LED indicating the capture state of EJournal™,
OSD	On Screen Display
PC	Personal Computer
POS	Point of Sale
RS232	Serial data interface using

	about plus and minus 10Volt signaling.
USB	Universal Serial Bus

Table 1 Abbreviations used in this manual

EJournal™ Product Description.

EJournal™ captures Point Of Sale journal data electronically

With EJournal™, retailers no longer have to print and keep paper tapes of journals for non critical (non accounting) uses.

A screen shot of EJournal™ in operation is shown below.


```
EJournal - EJournal1                                        _ □ ×
File  Edit  View  Journal Operations  Window  Help
───────────────────────────────────────────────────────
EJournal1                                                  _ □ ×

    4418 Western Ave.


1D47349259-001                   RACEWAY 6757
4418 WESTERN AVE                 KNOXVILLE TN


   Descr.              qty           amount
   -------             ---           ------
EMPLOYEE# 008 08/07/06 22:40
   Prepay CA#10                       10.00
                       Tax             0.00
                       Total          10.00
                       CASH  S        10.00
    REG# 0001 CSH# 008 DR# 01  TRAN# 11153
    08/07/06  22:40:42              ST# 6757
*********** ERROR CORRECTION ***********
    UNLD CA #09      5.321G           15.00
                    @ 2.819/ G
        Prepay Fuel                  -15.00
****************************************
    UNLD CA #06      3.840G           10.82
                    @ 2.819/ G
        Prepay Fuel                  -20.00
                       Tax             0.00
                       Total          -9.18
For Help, press F1                              C:\Prog
```

PC Requirements

The EJournal™ by VRX Company Inc is a software product, which runs on a PC under the Windows™ operating systems versions XP™, Vista™ and Windows7™. The PC must have a serial port for EJournal™. A USB port can be converted to a serial port with a third party adapter

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EJournal™ Functional Description

With EJournal™ transaction data is saved into a file on a PC which may also be a DVR. EJournal™ eliminates the requirement for printing transaction journal on paper and storing the same.

Modern retail operations use printers which may be both a receipt printer and electronic storage of journal data. Unfortunately printing the journal at the end of day ties up the register and an employee. Then the paper tape has to be stored and perhaps transported seriously reducing the value of electronic storage.

EJournal™ solves the problem by capturing the journal data into a PC which eliminates the paper storage requirement.

Receipt / Journal Printer
(**Journal printing no longer required!**)

Point of Sale

Serial
Cable
Splitter

PC running
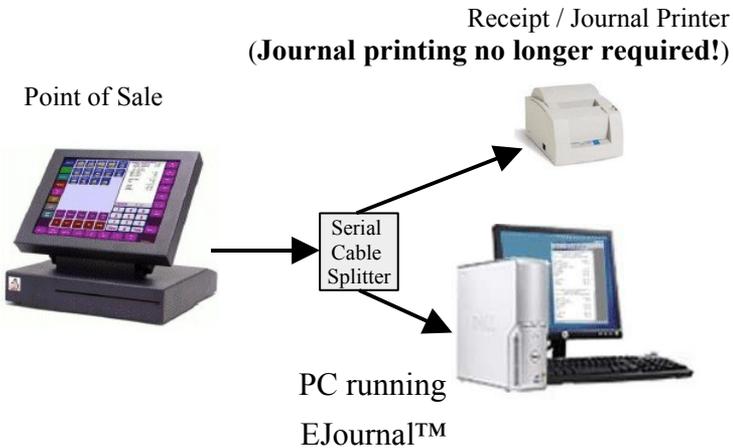
EJournal™

Installing EJournal™

Installing EJournal™ has two components. First, the hardware connecting the PC with EJournal™ to a Point of Sale journal printer. Second, installing EJournal™ on a PC.

In addition the Point of Sale system must be configured, as required, so that a serial port is transmitting journal data. The owner of the Point Of Sale system is required to provide any required technical support from the Point Of Sale manufacturer required for journal printer setup of the Point of Sale software.

Hardware Connection: POS to EJournal™

The connection breaks down into one of two cases. The case with a physical receipt/journal printer requiring a splitter cable and the case without a physical printer requiring only a cable.

EJournal™ with a real Journal Printer

This connection requires a splitter cable and a new cable of the appropriate length to reach from the Journal Printer to the PC running EJournal™. Additionally special adapter (VRX Part: POS2DVR_RX) to prevent signal contention (the collision of two signals send from two signal sources when connected to a single receiver) is required. VRX Company Inc. can provide kits for this connection configuration.

Example of Adapter kit for DB9 (or DB25) cable splitting.

Installation steps

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Turn off the POS. Turn off the journal printer. Disconnect the cable from the POS to the journal printer at the journal printer end. Connect the journal printer cable to DB25 Female to RJ45 adapter or DB9 Female to RJ45 adapter as required. Using the short CAT5 cable connect to the triple RJ45 splitter. Using a second short CA5 cable connect from the splitter to the corresponding DB25 Male to RJ45 adapter or DB9 Male to RJ45 adapter and connect to the journal printer. One end of the splitter will remain disconnected while you test the splitter connection. Turn on the POS and the journal Printer and test for normal journal operation.

If the receipt / journal prints normal proceed. If not correct the problem before proceeding.

Turn off the EJournal™ computer. Turn off the POS. Turn off the journal printer.
Fabricate or purchase a long CAT5 cable of the appropriate length to reach from the splitter to the serial port on the PC running EJournal™.
Connect the DB9F to RJ45 adapter to the CAT5 cable.
Connect the POS2DVR_RX adapter to the DB9 adapter.

The typical DB9 connection will not use the Mini NULL MODEM adapter. However the typical DB25 connection will use a Mini NULL MODEM, Adapter.

For printers with DB9 connectors, the cable and adapters will look something like this.
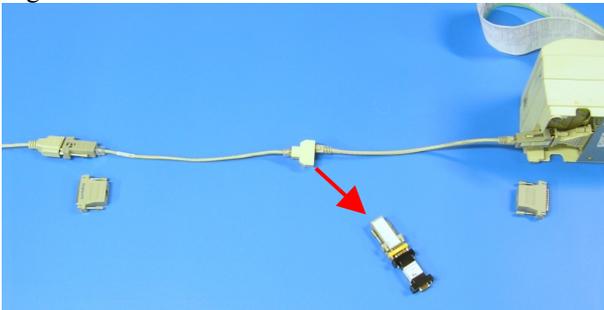
The red arrow represents a CAT5 cable which the installer provides. The and the two DB25 to RJ45 adapters are not used.

For printers with DB25 serial connections the DB9 to RJ45 adapters will not be used.

EJournal™ No Printer

This only requires a new cable of the appropriate length to reach from the Point Of Sale stem to the PC running EJournal™.

The cable will typically be a DB9 Female to Female NULL MODEM. Cables can be purchased this way or can be realized buy using DB9 Female to Male, a DB9 Female to Female Gender changer and a DB9 Female to Male NULL MODEM.

Cable	Null Modem	Gender Changer
	Front Back	Front Back

Turn off the computer. Turn off the POS.
Connect from the POS serial port to the serial port of the computer running EJournal™.

Apply power to the POS and the computer running EJournal™

Cables and Adapters from VRX Company Inc.

See our extensive list of adapters on our web site. Go to the EJournal™ page and look for accessories.

Software Install: EJournal™

EJournal™ comes on a flash drive. This flash drive contains a serial number and a matched license file. To run EJournal™ this flash drive must remain connected to the PC on which EJournal™ runs.

Connect the flash drive to a USB port. You can add a USB hub if necessary for the additional USB ports.

To install EJournal™

Remove any older version of Ejournal before installing.
Using windows explorer navigate to the flash drive.
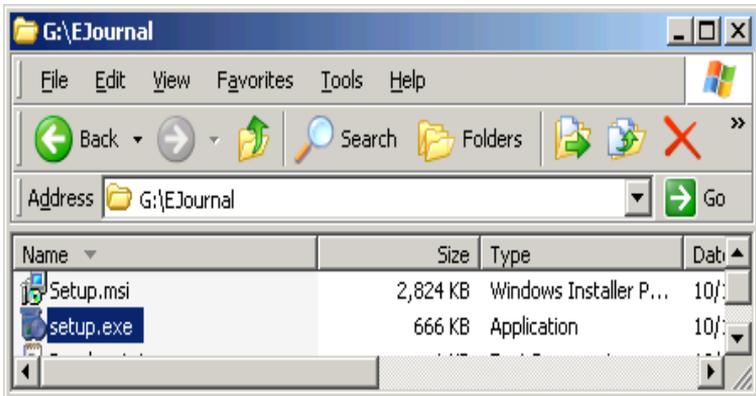
Double click the setup file to install EJournal™.
If you have an older version of EJournal™ installed on your computer you will get the following error message.
To remove old versions see the next section.

Removing EJournal™

Use the Windows uninstall program to remove the old version.
Go to Start, Control Panel, Add Remove Programs,

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Select EJournal™ for removal..
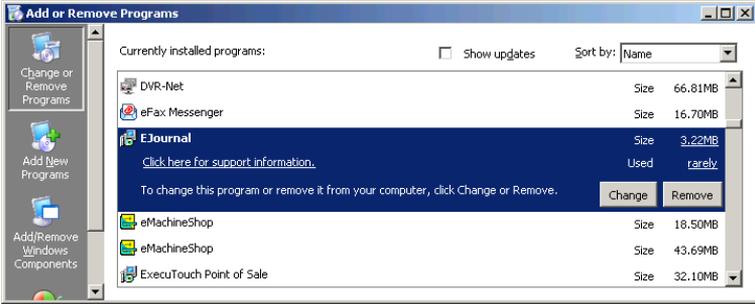
Answer yes when asked if you are sure.

After the remove program finishes, close the control panel window.

Resume install of EJournal™

Select the folder path for the install. The default is the Program Files used by most Windows application programs.

Agree to the License Agreement.

Select the installation folder
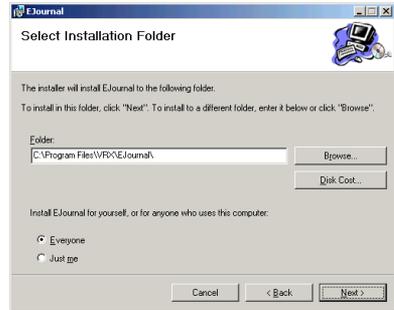
Press next to start the install.

The install tool about 10 seconds on a Windows XP computer running a dual core processor.
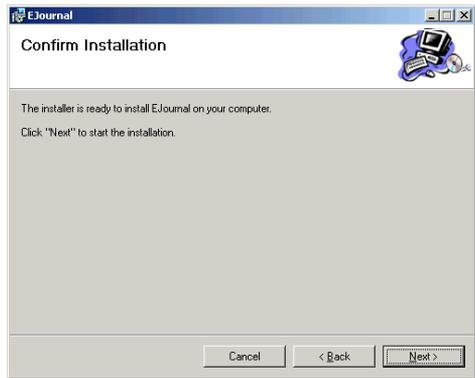
Press the close button to finish.
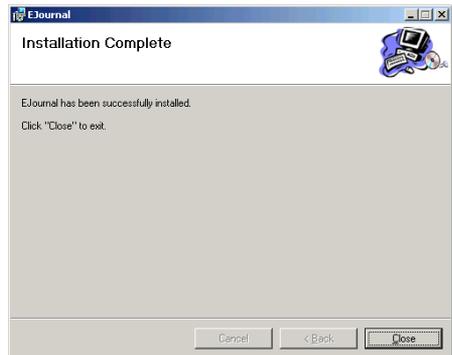
Using EJournal™

The first time you run EJournal™ you must set up the path to a folder where the journals will be stored and configure EJournal™ to your serial ports.

First Time Setup

Run EJournal™. By navigating to Windows Start, All Programs, VRXEjournal,

EJournal™ opens.

Select Folder (For Journal Files)

Use this dialog to set the path to the folder where the EJournal™ files will be stored.
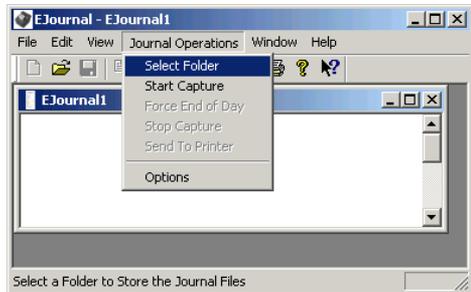
Navigate to the folder such as

C:\Program Files\VRX\EJournal and make a folder for the journal files.

Make a new folder

You can use Windows Explorer to set the folder name by selecting it and typing in the name such as: **Register3**
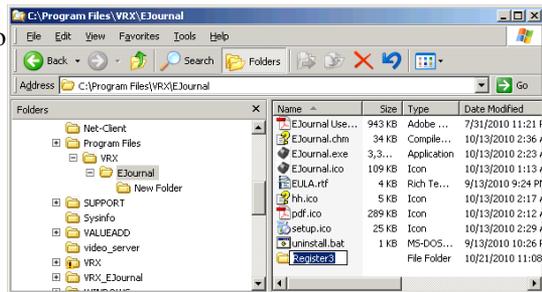
Navigate back and select the new folder with EJournal™
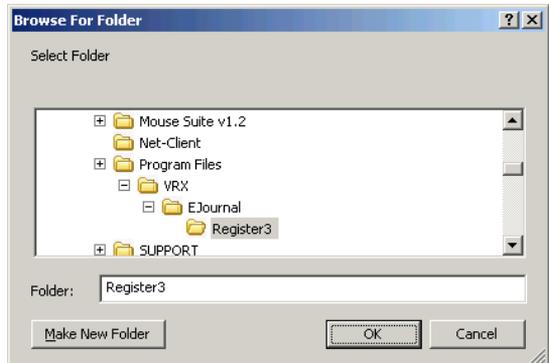
Check that your folder is correct by looking at the status bar on the bottom of the EJournal™ window.
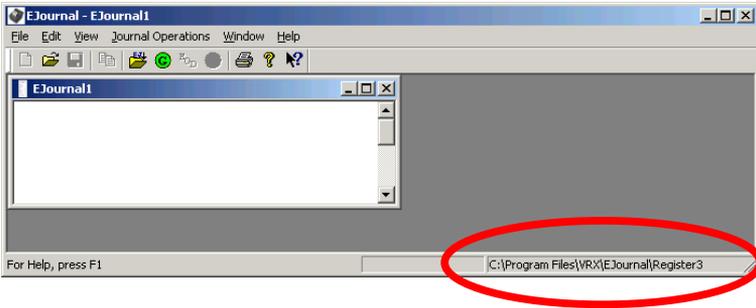
You can also see the file name for the journal. In this example it is a name of 20060804.jrl. This file name is constructed from the year, 2006, the month, 08 and the day, 04 that this manual was written. EJournal™ automatically makes this file name. If you start and stop EJournal™ capture it will make the file the first time and will append data if the file already there.

Options for serial communication.

From the Journal operations menu select the Option sub menu.
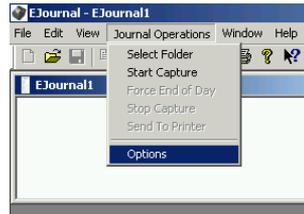
Set Serial Port

Note that both ports will have the same setting for Bits per Second, Data Bits, Parity, Stop Bits and Flow Control.

Use your POS manual to find the appropriate serial port setting.

You can find some of the serial communications set by entering a
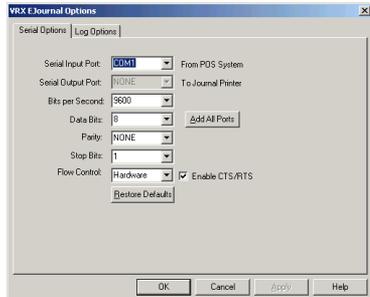
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special mode on some printers. See the appendix of this document for help.

Set Journal Log Options

Set the End of Day Processing **Trigger Start Time** to a time just before the typical end of day for accounting purposes Set the **End of Day String** to exactly match the text which appears at the end of day journal report.
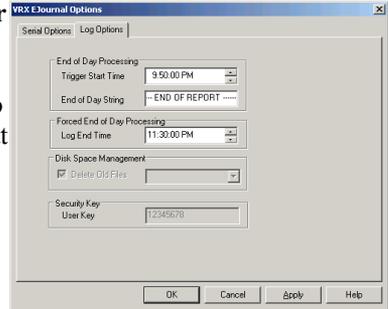
Example for a typical Ruby journal report

"------ END OF REPORT ------"

Set the **Forced end of Day Processing** to a time of day some time after the typical end of the accounting day to force a new file in case the cashiers do not run the reports or there is no end of day report available from the Point of Sale System.

Disk Space Management and **Security Key** features are not implemented in this version.

Capturing Journal Data

You can start capture from the Journal Operations menu or from the Icon bar. Press the GO button.

You should now see all future data sent from the POS system.

You can press the red Stop button to stop temperately the capture of data. Pressing the Go button will restart capture of data.
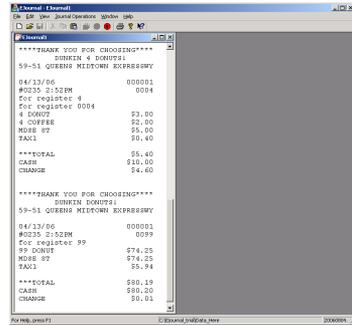
Opening an EJournal™ file

You can open an EJournal™ file for quick viewing within EJournal™
Select File Open and navigate to the file you want to view.
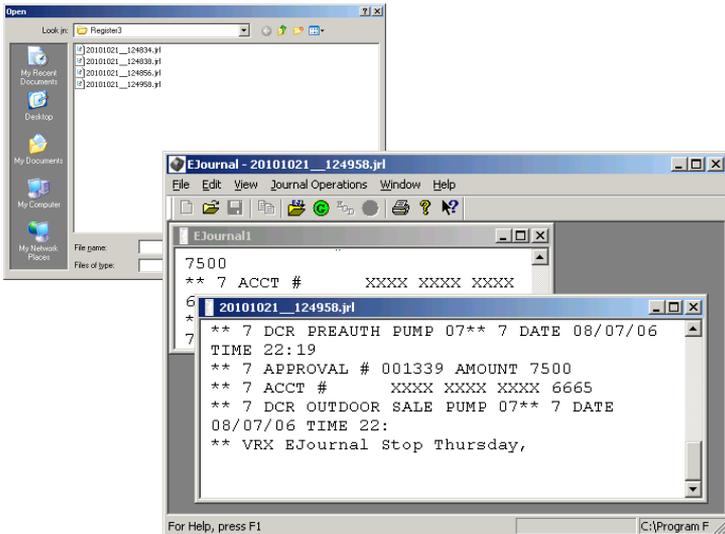
For more powerful searching, open with any text editor or word processor. The embedded printer control may appear as unusual characters in some editors.

Here is a file in Microsoft's Wordpad where the Find tool identified a Void.
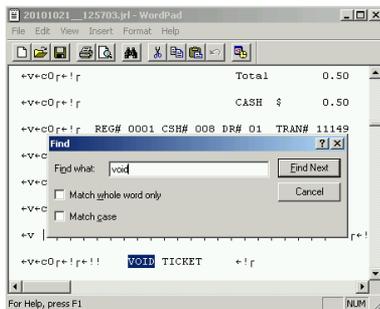
Previewing and Printing EJournal™File

You can send an EJournal™ file to your computers printer. Chose File, Print or File, Preview and then print.

Troubleshooting common problems.

To receive data on a computer COM port (serial port) the data transmit pin from the POS must be connected to the receive pin of the computer running EJournal™. This typically requires a NULL MODEM adapter or a NULL MODEM cable.

EJournal™ LIMITED WARRANTY

VRX Company Inc. ("VRX") and VRX's authorized distributors warrant to the original purchaser that the product shall be free from defect in material and/or workmanship for a period of one (1) year from the date of purchase. The service parts stock for this model shall be maintained for 3 years after the production is discontinued.

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(c) Any defect of the product caused by external equipment.

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Before a product is returned to be serviced, the purchaser must obtain a Return Material Authorization number so that the VRX Company can uniquely identify the product returned. The purchaser must deliver the product, freight prepaid, in its original package or other adequate package affording an equal degree of protection, assuming the risk of damage and/or loss in transit, to your local VRX authorized distributor. The RMA number must be clearly marked on the exterior of the packaging.

Contact the VRX Company Inc
By email at support@vrxinc.com or
By phone 1-866-543-8398 9-5 Eastern Time.
By snail mail at: PO Box 4663, Maryville, TN 37802-4663

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8. NOT FOR ACCOUNTING.

Warning: EJournal™ is not rated for the necessary reliability for capturing your end of day reports for accounting purposes. The business owner must not rely on EJournal™ for accounting information.

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9. This EULA is governed by the laws of Tennessee.

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