

VRX Company<sup>Inc.</sup>

Setup: VR2003 for  
POSitive<sup>TM</sup> for  
Windows

VRX Company Inc.

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## Abbreviations and Phrases

ASCII	Standardized codes for characters used by most computers. For example, the character “A” is code decimal 65.
bps	Bits Per Second
EEPROM	Electrically Erasable, Programmable Read Only Memory
Firmware	A program in hardware, which cannot be readily altered.
FPOS©	Future POS, a specific restaurant point of sale software.
OSD	On Screen Display
PC	Personal Computer
POS	Point of Sale

**Table 1 Abbreviations used in this manual**

## **New Feature with V1.22 Firmware for VR2003.**

The version V1.22 Firmware for the VR2003 adds several features to facilitate installation of the VR2003 and to let the installer customize the behavior of the VR2003 OSD display to best suite the application.

A summary of the new features include:

- Support for POSitive™ for Windows.
- Implementation of compatibility for customer display (pole display) control characters. Supported displays include: Logic Controls as a two line pole display.

A summary of the features still include:

- Automatic Sync detection on video input.
- User can select character background black or transparent
- User can select the amount of idle time elapsed to erase the OSD: 3, 5 and 10 seconds,
- User can select 2 to 11 lines of OSD characters.
- Trouble shooting debug screens.
- User select 10, 14, 20, 21 or 28 character wide display.
- HEX DUMP in DEBUG MENU

## **VR2003 Basic Function Has Not Changed.**

Please refer to the VR2003 User Manual for instructions on connecting the VR2003 to the Point of Sale terminal. The VR2003 is a device to encourage accuracy at the point of sale. The VR2003 inserts the product description and pricing information sent to a point of sale pole display or a receipt printer on to the video from a video camera for recording on VCR or a DVR. This embedded video is also referred to as an on-screen display, commonly abbreviated as OSD. The recorded video with OSD information allows the store manager to review sales to check for correspondence between what the cashier entered and what the customer actually received at the point of sale.

The VR2003 applies a simple approach that we believe makes the VR2003 easier to install and independent of the particulars of many POS systems. Our approach is to Keep It Simple, a.k.a. KIS(S). We do not try to emulate the brand specific behavior of many pole displays; we simply give visibility to the nuts and bolts of the sale by displaying only the most basic of the industry standard ASCII characters. The VR2003 ignores most escape characters, and inserts most ASCII alphanumeric characters. This gives visibility to the message without making the VR2003 as difficult to setup as some pole displays. It is also in keeping with the primary function of the VR2003, which is to give visibility to the user of the data sent to the pole display.

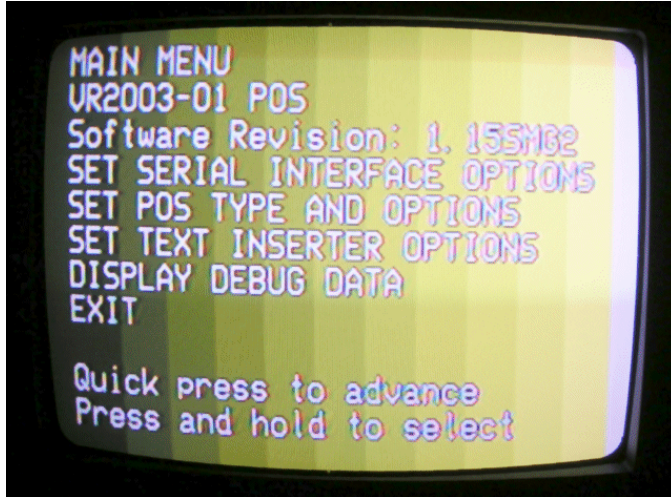
## **Setup for POSitive™ for Windows**

See the application note *Application Note POSitive\_c.doc* or the latest version thereof.

Summary: Set POSITIVE for Logic Controls code Line1: 31 and code Line2: 10,13 .

# Firmware V1.22 Feature Explanation and User Setup

Example User Interface display.



**Figure 1** Example of the User Interface appearance.

All set up is through a user interface similar to Figure 1.

The VR2003 firmware V1.22 has the following features:

## **V1\_22 User Interface.**

The User Interface is composed of a MAIN MENU and four sub menus. The sub menus are organized by functions.

### **MAIN MENU.**

Use a small object such as a small screwdriver to press the switch SW1 to enter the **MAIN MENU**.

The first three lines of the MAIN MENU are information only; they tell you that you are at the MAIN MENU, The hardware version and the software version.

Below the information lines are the sub menu lines of the display.

One line of the display will blink to indicate it is the active line. Advance through the MAIN MENU selections by using a quick press and release action on SW1. Once you have selected a sub-menu item so that it is blinking, press and hold SW1 for several seconds and then release. If you do not want to make any changes or you are done with changes EXIT the MAIN MENU by a similar method. Use a quick press and release of SW1 to advance to the EXIT menu item.

Pressing SW1 for a few seconds and releasing will select the MAIN MENU exit option. There will be a short message saying EXITING and the VR2003 will return to normal operation with any saved changes.

**Main Menu**  
**VR2003-01 POS**  
**Software \$Revision 1.22 \$**  
**SET SERIAL INTERFACE OPTIONS**  
**SET POS TYPE AND OPTIONS**  
**SET TEXT INSERTER OPTIONS**  
**DISPLAY DEBUG DATA**  
**EXIT**

**Quick press to advance**  
**Press and hold to select**

## SET SERIAL INTERFACE OPTIONS

This menu is for set up of the serial communication port typically used with a pole display. When you enter the SERIAL bps SETUP MENU, the current bps (Bits Per Second) rate is displayed. A list of all possible bps is displayed in the order in which the VR2003 presents them. Pressing SW1 for a few seconds and releasing will select the next available bps from the list. A quick press and release will advance the menu from the bps setup to the SAVE AND EXIT menu choice or the EXIT WITHOUT SAVING menu choice. Pressing SW1 for a few seconds and releasing will select the appropriate exit option. You will see a message confirming your EXIT and you will return to the MAIN MENU. If you are done, EXIT the MAIN MENU by a similar method. Use a quick press and release of SW1 to advance to the EXIT menu item. Pressing SW1 for a few seconds and releasing will select the MAIN MENU exit option and return the VR2003 to normal operation with any saved changes.

For POSitive™ for Windows set as follows:

**SET SERIAL INTERFACE OPTIONS**

**Serial bps 9600 8 N 1**  
**SAVE AND EXIT**  
**EXIT WITHOUT SAVING**

**Available bps 600 1200 2400**  
**4800 9600 19200 38400**

**Quick press to advance**  
**Press and hold to select**

## **SET POS TYPE AND OPTIONS**

This menu allows the user to set changes for compatibility with specific POS software and pole displays.

Pressing SW1 for a few seconds and releasing will select the next available menu item.

The POS SYSTEM TYPE lets you select for compatibility with supported POS software. Such supported POS software will typically have a more formatting to the inserted test. Pressing SW1 for a moment and releasing will select increment to the next POS type. Current supported POS types are: GENERIC, FPOS and GILBARCO.

Pressing SW1 for a few seconds and releasing will advance or select the indicated option. For leaving the menu, you will see a message confirming your EXIT and you will return to the MAIN MENU. If you are done, EXIT the MAIN MENU by a similar method. Use a quick press and release of SW1 to advance to the EXIT menu item. Pressing SW1 for a few seconds and releasing will select the MAIN MENU exit option and return the VR2003 to normal operation with any saved changes.

For POSitive™ for Windows set as follows:

**SET POS TYPE AND OPTIONS**

**POS SYSTEM TYPE: GENERIC**  
**DB 9 DEVICE: LOGIC CONTROLS**  
**DB25 DEVICE: GENERIC**  
**DISPLAY MODE: TWO LINE. POLE**  
**SAVE AND EXIT**  
**EXIT WITHOUT SAVING**

**Quick press to advance**  
**Press and hold to select**

## SET TEXT INSERTER OPTIONS

You can select the character background to be opaque or transparent. Opaque is better if there are any bright objects or sunshine in the video where the OSD text will be inserted.

You can select a time out of 3, 5 or 10 seconds for the OSD. When the time out expires, the text is erased.

You can select 10, 14, 20 or 28 characters per line. If less than 28 characters are selected, they will be on the left half of the video.

You can select 2 to 11 lines of characters starting from the top of the video and working down.

You can select for the removal of more than one consecutive space. This minimizes the picture covered by the inserted text. Turning REMOVE MULTI SPACE off will make the inserted text format more closely to the customer display but hide more video.

For POSitive™ for Windows set as follows:

**TEXT INSERTER OPTIONS**

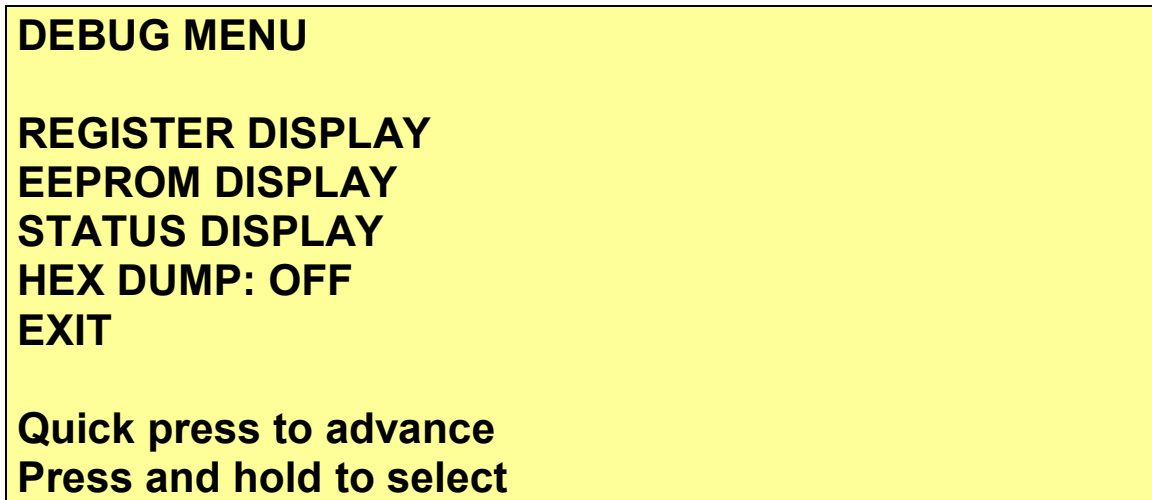
**BACKGROUND: SOLID**  
**TIMEOUT: 10 SECONDS**  
**DISPLAY: 20Chars x 11 Lines**  
**REMOVE MULTI SPACE: NO**  
**SAVE AND EXIT**  
**EXIT WITHOUT SAVING**

**Quick press to advance**  
**Press and hold to select**

## DEBUG MENU

The DEBUG MENU brings up a selection of three sub menus. The register display and EEPROM display show the status of current program operation with in the VR2003 and may be useful when trying to understand unexpected behavior of the VR2003 or a POS or Pole display. There is a lot of numerical data in coded form and this information could be video taped for reference.

The STATUS DISPLAY will display messages indicating if there has been serial port or parallel port errors that could be useful when trying to understand unexpected behavior of the VR2003 or a POS or Pole display.



The HEX DUMP can be turned on to reveal the control codes from the POS. This feature can be helpful for trouble shooting unexpected behavior of the VR2003 or a POS or Pole display.

**CAUTION, once turned ON, the HEX DUMP mode must be turned off by reentering the DEBUG MENU and selecting OFF.**

## **Still having trouble with your VR2003 User Interface?**

If you are having compatibility trouble with the POS system and your Text Inserter, please look for updated information on our web site at [www.vrxinc.com](http://www.vrxinc.com)

Contact the VRX Company Inc at [support@vrxinc.com](mailto:support@vrxinc.com) or by calling 1-866-543-8398 9-5 Eastern Time.

Snail Mail at: VRX Company Inc. PO Box 4663, Maryville, TN 37802-4663