

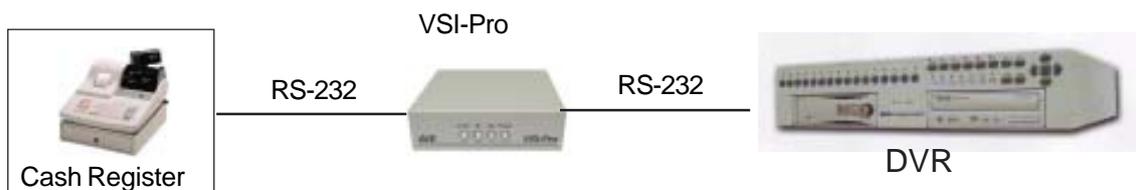


# POS Retail and Banking Solutions

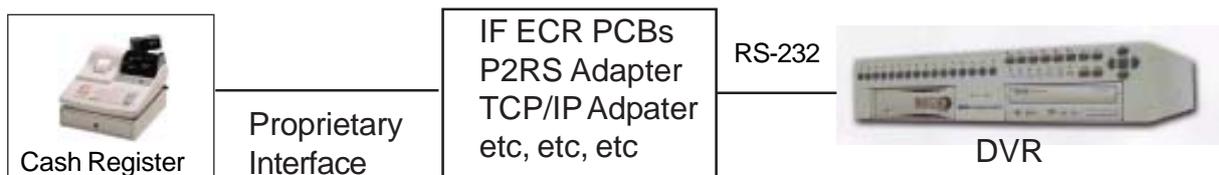
The AVE line of POS Cash Register and ATM Interfaces have always been compatible with 3<sup>rd</sup> party DVRs. The VSI-Pro Cash Register Interface and VSSI-Pro ATM Interface exports the transaction data in a standard readable RS-232 format. These products can connect directly to any standard DVR with an RS-232 Comport or compatible DVR configured in a network of up to 16 interfaces supporting the AVE Protocol. This brings true integrated solutions for Retail and Banking to any 3<sup>rd</sup> party DVR. With the largest compatibility list of POS terminals, Cash registers, ATMs, Scales, Coin Counters, GPS, Radar Guns, Laser Guns, Alcohol Meters, Accelerometers and Magnetic Card Readers, AVE will expand your marketing and sales to areas unreachable in the past.

## VSI-Pro Cash Register Interface Direct Connection RS-232

The VSI and VSI-Pro have always had the ability to export all the filtered and formatted transaction data or just exceptions to an RS-232 serial port. This data can now be read by many 3<sup>rd</sup> party DVRs which store the data with the video file. Using the text search features in the DVR the user can later search for particular transactions in question.

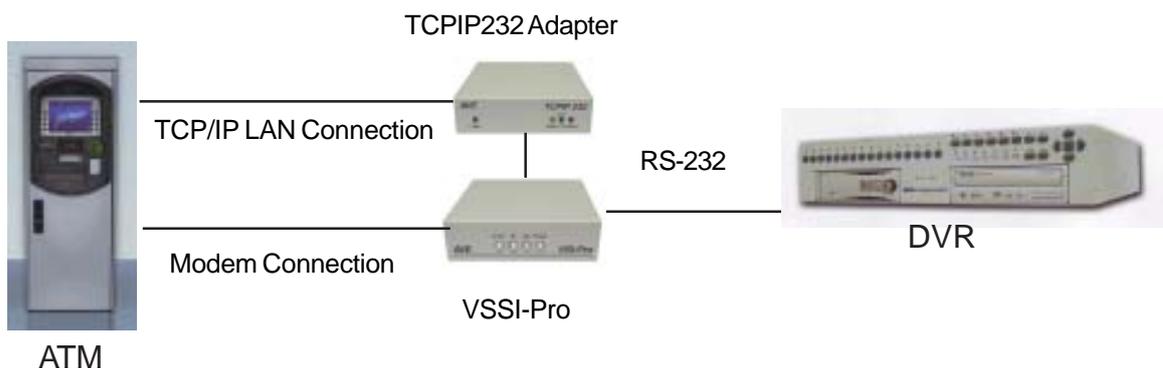


The AVE line of IF ECR Interfaces, Parallel to Serial, USB & TCP/IP adapters along with many other special converters and adapters output data in the formatted RS-232 protocol. Many DVRs can receive this data directly without the use of a VSI-Pro.



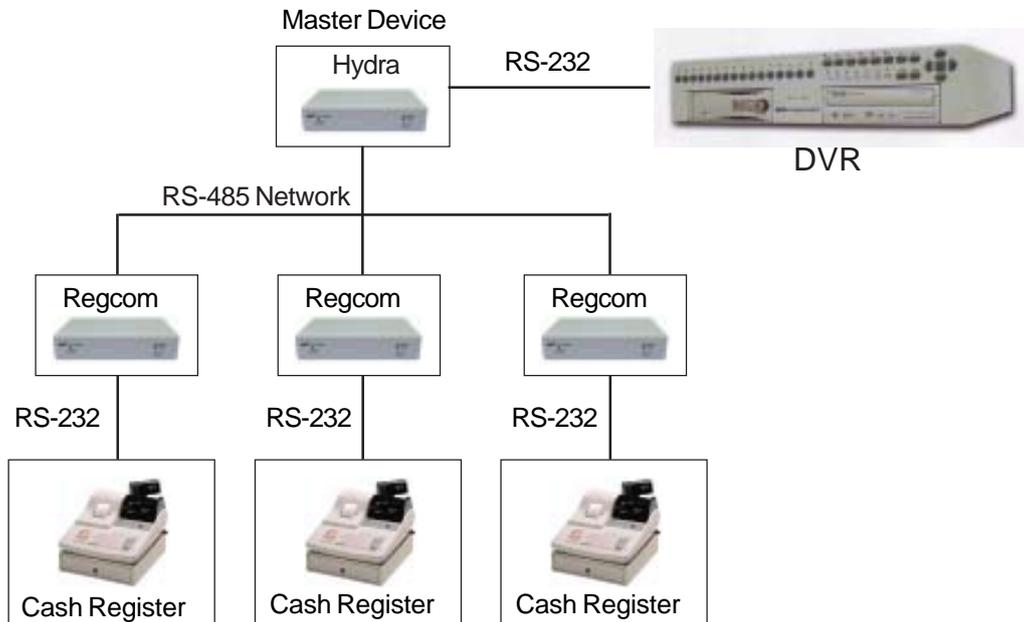
## VSSI-Pro ATM Interface Direct Connection RS-232

The VSSI-Pro ATM Interface outputs RS-232 formatted transaction data also in the standard RS-232 format. This device whether used stand alone for modem tapping or with the TCPIP232 Adapter for TCP/IP LAN tapping, can send this data to the RS-232 Comport of any DVR.



## Regcom Networking

The Regcom is an interface device that allows the connection of multiple cash register terminals to the Hydra master unit for the purpose of transaction logging. The Regcom receives RS-232 data from a cash register, VSI-Pro, Interface Adapter, or ECR Interface card inside the cash register. It then stores this data in its internal buffer before sending it on to the master unit via the RS-485 network. The Regcom is a "slave" device. One master device can be connected to a maximum of 16 slave devices. Only one master device can exist on a single network.



### Hydra

The Hydra Master unit is an interface device that allows the connection of multiple cash register terminals using the Regcom/Networker/Vnetworker slave units for the purpose of transaction logging. The Hydra receives RS-485 data from the Regcom/Networker/Vnetworker networks and converts this to an RS-232 format that DVRs or the VSI-Pro can read. The DVR must support the AVE proprietary protocol. Many 3rd party DVR protocols are already supported.

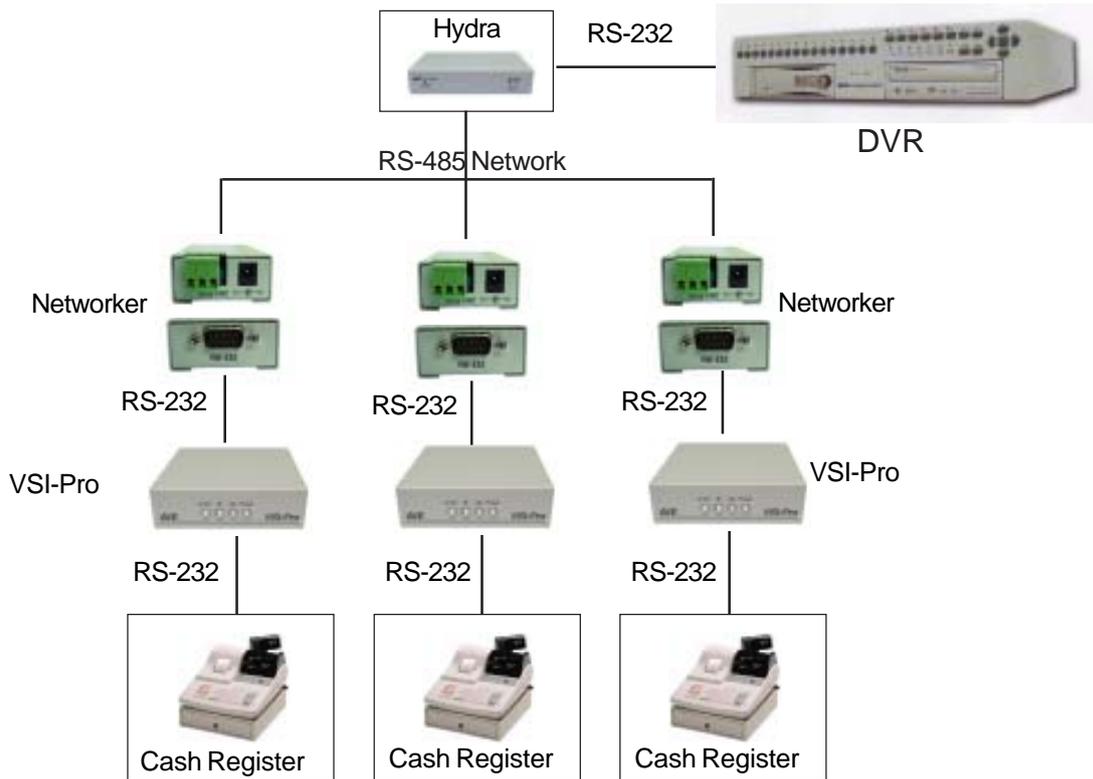
### Networker Networking

The Networker can connect directly to only the VSI-Pro. The VSI-Pro then must connect with the cash register and/or optional interface adapter. The 2 conductor RS-485 network is run to each and every Networker in the system and then back to the Hydra. Each Networker must have a unique address set by its internal dipswitch corresponding to the register or camera number. The Hydra then translates this address and stores the data from the respective number to that camera number in the DVR. All the text received from that cash register whether being all the data or just exceptions is stored on the DVR.

### VSI / VSI+ / VSI-Pro Backward Compatibility

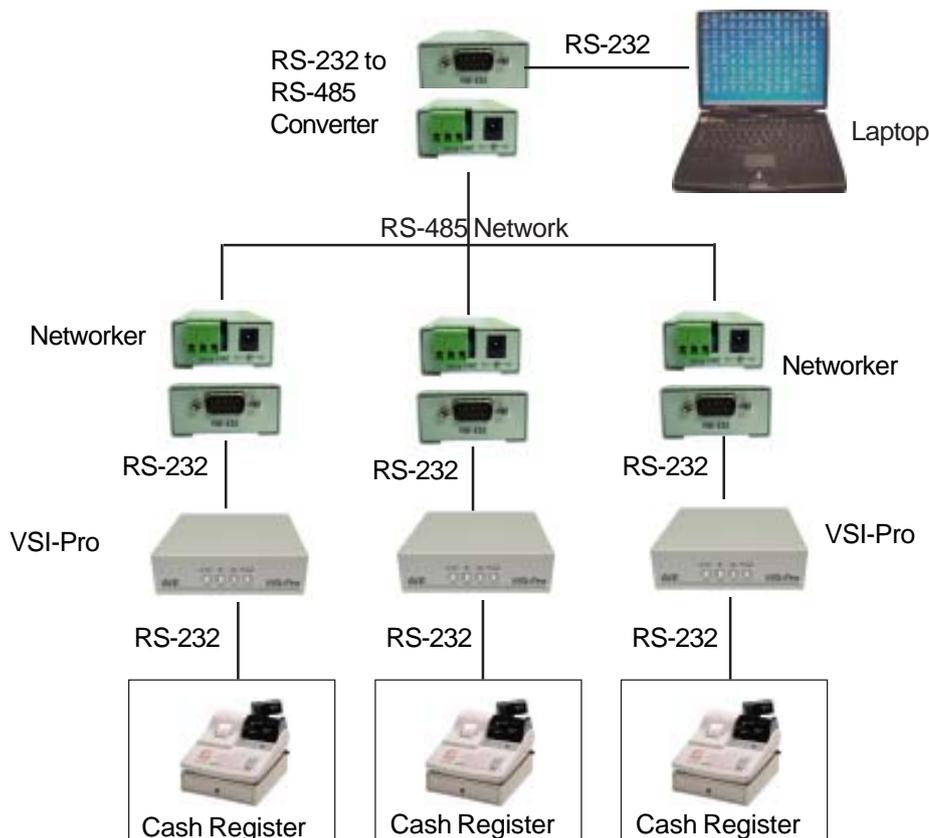
Since 1990 various versions of the VSI have been on the market solving cash register retail problems. Several special version are available to interface to other RS-232 devices like scales, coin counters, PLCC, gambling machines and ATMs along with countless other generic RS-232 devices. The first VSI, Version 9 had no exception processing until the release of Version 10. However these versions had the ability to output the data so are compatible with the Regcom line of networking adapters. As features increased we moved to the VSI+ Version 11, which had the first powerful set of exception processing and printing functions. This version also had hardware handshaking capability which allows it to be fully operational with the Networker and Regcom line. The introduction of the VSI-Pro Version 12 added on-screen selection of various model registers for ease of installation and supported many characters sizes for multiple units to display data on one camera view. This version also supports the Networker and Regcom products. The current VSI-Pro Version 13.XX has improved features and additional registers and the Version 13.00 supports North America cash registers and Version 13.24 supports UK and European models. All Version 13.XX VSI-Pro support the Networker, Regcom and Vnetworker products. All Version 13.XX can be upgraded to the latest Release 12. This latest software adds PC Programming capability, Firmware update externally and Vnetworker support along with Networker and Regcom compatibility.

## Networker Networking Connection Diagram



## PC Networker System Configuration

The Networker connects directly to the VSI-Pro along with the cash register and/or optional interface adapter. The 2 conductor RS-485 network is run to each and every Networker in the system and then back to the PC via an RS-232 to RS-485 adapter. Each Networker must have a unique address set by its internal dipswitch corresponding to the register or camera number. The PC Windows software on the PC will control the network collecting data from each VSI-Pro in the system. The data is then stored in a log file for each VSI-Pro which can be used by other programs for databasing, downloading or printing.



## Vnetwerker System Configuration

The Vnetwerker connects in between a VSI-Pro and the Cash Register or interface adapter via RS-232. The Vnetwerker is similar to the Networker which takes the RS-232 data and puts it on a common RS-485 network and sends back to the DVR or PC. This network supports up to 64 Vnetworkers. The Vnetwerker is an enhanced version of the Networker and is able to program the VSI-Pro remotely along with gathering the transaction or exception data. The VSI-Pro must be Ver. 13.00 or 13.24 and Release 12 or higher. Any VSI-Pro Ver. 13.00 or 13.24 can be upgraded with a uP software change for the hardware of the VSI-Pro remains the same.



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