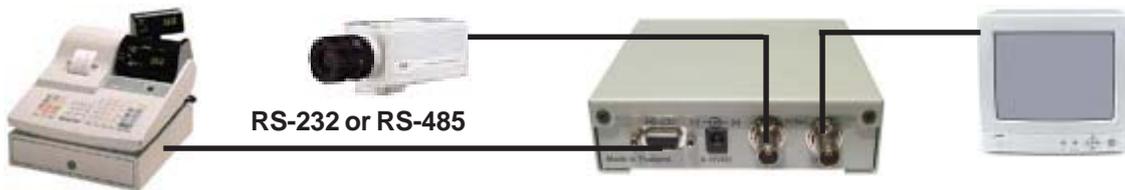


# POS Cash Register Interfacing



## Traditional Text Overlay

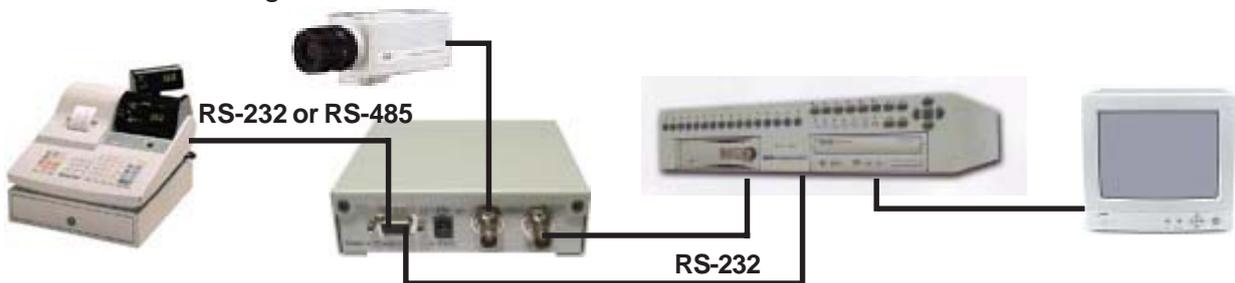
The AVE line of POS (Point of Sale), Cash Register and ATM Interfacing is the most extensive product line in the industry with over 350 unique POS/Cash Registers and ALL ATMs Worldwide. The VSI-Pro can connect directly to any RS-232, RS-485, RS-422 or HiZ Serial Communication Port with the specific cable for the target POS / Cash Register or ATM. Other types of interfacing like Parallel/Centronics, IRC, Ethernet LAN, TCP/IP, USB or PS2 require separate adapters which convert these special protocols either in a tap or emulate mode to RS-232 and is sent to the VSI-Pro. For low cost ECR (Electronic Cash Registers) which use internal dot matrix, drum or thermal printers the AVE line of IF and TPIF PCBs are mounted internal to the ECR and convert this data to RS-232 and deliver to the VSI-Pro.



**Basic Text Overlay Configuration**

## DVR Text Overlay and Search

The AVE line of DVRs and compatible 3rd party DVRs support reading RS-232 data in using a special port from the AVE line of POS / Cash Register and ATM Interfaces. The DVR then displays and/or saves this data in an electronic file format with the audio and video recordings. Text Search routines and Exception processing built into the DVR, allow the user to search this database for questionable transactions and play them back along with the audio and video recordings.



**DVR Configuration**

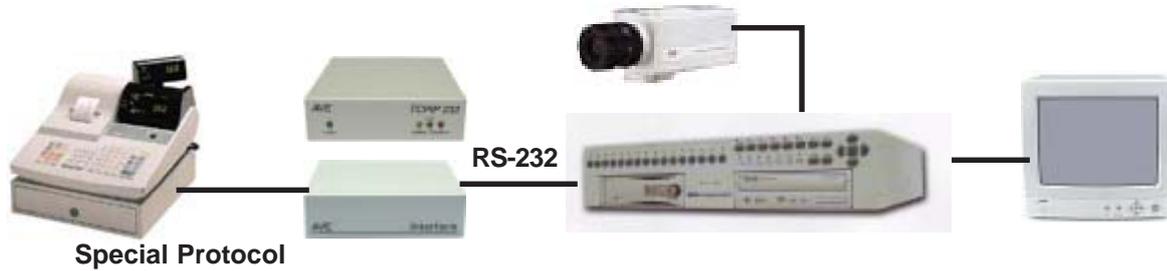
## Cables

A broad line of cables are provided by AVE to connect to the POS or Cash Register. These cables can tap the current data stream from printers, Pole displays or Serial ports. The VSI-Pro can also emulate these devices so will work even if the device is not connected.



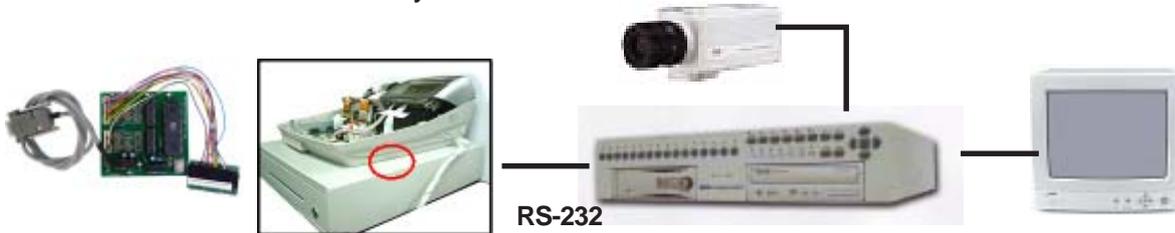
## Adapters

The extensive line of AVE Adapters can convert Parallel/Centronics, IRC, Ethernet LAN, USB or PS2 to RS-232 to be delivered to the VSI-Pro or directly to the DVR.



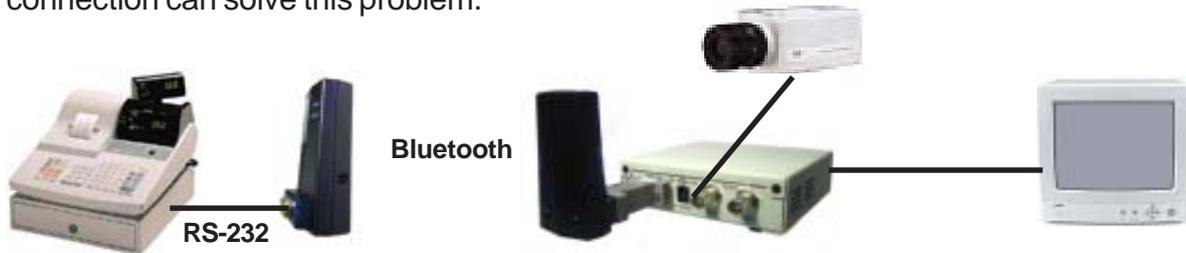
## IF or TPIF ECR PCBs

Some lower cost ECR cash registers have built in printers and very few external ports for extracting the transaction data. In these cases the AVE line of ECR PCBs are mounting internally to the ECR to convert the printer data to RS-232. This RS-232 data can be connected to the VSI-Pro or directly to the DVR.



## Wireless Connections

In many POS installations the terminals are prewired and running additional cable to the interface can be expensive. In these cases sending the POS data by a Bluetooth wireless connection can solve this problem.



## Structured Wiring

Most buildings are wired with telephone service using Cat 3, 4, or 5 unshielded wire. In these installations the AVE UTP line can be used to transmitter the video over these existing wires saving installation costs. For the POS / Cash Register Data the AVE RS-232 to RS-485 adapter can send up to 3000 ft without any interference.

