

User Manual

POS Text Inserter

Model: ACA-POS-SP1



User Manual - Text Inserter for POS

1. General Description

The ACA-POS-SP1 is a POS Text Inserter, it is capable of overlaying the information it receives via the onboard serial and parallel port onto the connected video signal. The ACA-POS-SP1 is commonly used with POS registers to overlay purchase item information (such as description, quantity, price, etc...) onto CCTV video signals for recording. This allows customers to see exactly what items were scanned during a transaction, allows you to easily settle customer disputes and helps manage loss prevention.

The ACA-POS-SP1 is a single channel device that can be connected in-line with a serial or parallel printer, in-line with a Pole (or customer) display, or simply to the pole display output of a POS register. USB to SERIAL converters are available for units with no physical serial port as long as the POS register supports COM (serial) ports. A CCTV camera must be connected to the video input of the ACA-POS-SP1 and the output from the device can be connected to a standard TV composite video input or CCTV system for recording.

The ACA-POS-SP1 has an On Screen Menu (OSD) that allows you to change the settings of the device. Simply connect a monitoring device to the output and the menu will be displayed after holding the menu button down for 2 seconds.

2. Main Functions

1. The ACA-POS-SP1 has a parallel (LPT) port and a serial (RS232) port for connecting to a POS.

Only one input can be used at a time, and the same type of output must be used (ex. You must use serial output if you are using serial input).

2. The device can display 8 lines of POS information on screen. Each line can display up to 64 ASCII characters.

3. The starting column and the maximum characters for each line can be adjusted in the devices OSD menu.

4. The device can display the POS information with or without a shaded background frame, this can make reviewing POS information easier.

5. The display time of the device can be adjusted for different configurations.

3. Major Parameters

Technical specifications

Video input amplitude	1VP-P(75h), 1 Channel
Video output amplitude	1VP-P(75h)
Bandwidth	12MHZ
Overlay text content	ASCII characters
Text display mode	With or without background frame
Characters each line	Maximum 64 characters per line
Information lines	8 lines
Information display positions	Top, middle or bottom
Power Supply	DV12V 0.5A
Working Temperature	-10℃~+40℃
Environment Relative Humidity	≤95% (no condensation)
Dimensions	6.9”(W)x 1.2”(H) x 4.1”(D)mm

Interfaces and communications

Function	Interface	Hookup
Input	RS-232 Input	Attach the serial port of a POS or output port of pole display
	LPT Input	Attach LPT output of POS
	Video Input	Attach camera video input source
Output	RS-232 Output	Attach to the input of POS's pole display
	LPT Output	Attach to the LPT input of POS Printer
	Video Output	Attach to video device, such as a DVR, TV, etc...
	Hookup	Rate
Communications	POS serial port or pole display port attaching to RS-232	1,200 bps~9600 bps
	RS-232 output port attaching to input port of POS's pole display	1,200 bps~9600 bps

4. Device Connection Overview

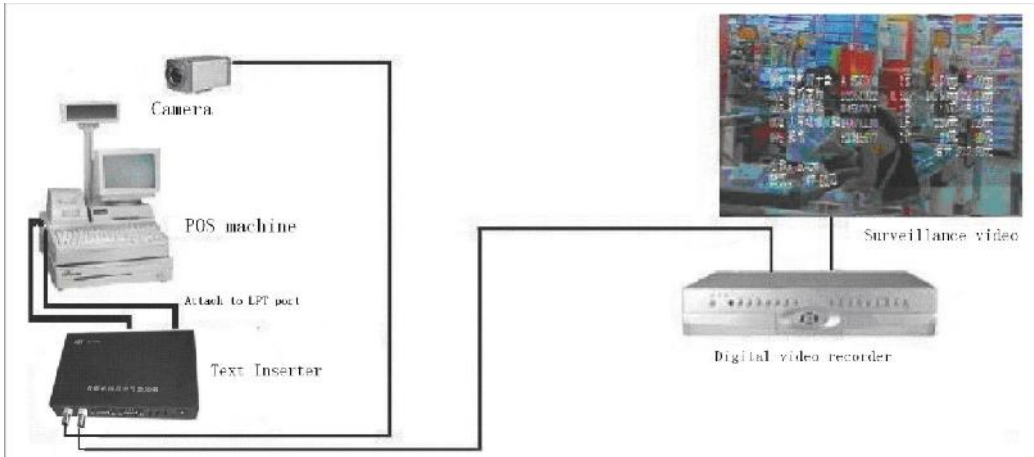


Figure 1

5. Configuration

Front panel of the device:

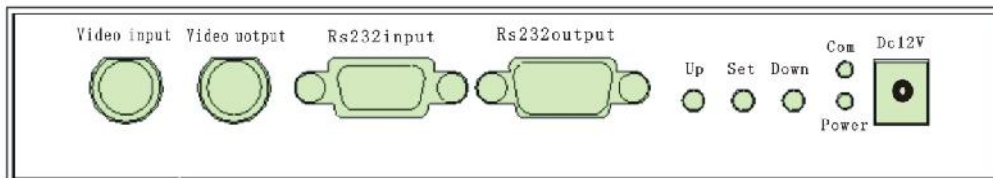


Figure 2

Video Input	Input from CCTV Camera	Video Output	Output to video device (DVR, TV, etc...)
RS-232 Input	Input from POS serial Port	RS-232 Output	Output to Pole display or not used
Up / Down / Set	Menu controls		

In the next section of documentation you will need to short press (pushing the button for less than 2 seconds) or long press (holding the button for more than 2 seconds) to navigate through the OSD menu.

To enter the configuration menu, simply long press the “Set” button.

▼Data input	: Serial
RS-232 Serial baud	: 9600,8,n,1
Background frame	: Translucent
Vert position	: Middle
Display columns start	: 10
Pole display columns	: 63
Display time	: 20 Seconds
Save and exit	

Figure 3

Main Menu Basic Operation:

- Short press the “Set” button to move downward onto the next parameter.
- Short press “Up” or “Down” to change the parameter or to exit the menu after pressing “Save and exit”.

Menu Parameters:

- **Data input:** Select “Serial” for Serial (RS232) connections or “Print” for Parallel (LPT) connections.
- **RS-23 2 Serial baud:** This parameter is only for use with “Serial” as the data input, Select the serial baud rate to match your POS register (supports 1200, 2400, 4800, or 9600 baud). **Note: This unit only supports serial settings of 8 data bits and 1 stop bit with no parity.**
- **Background frame:** You can select “Translucent” to shade the background of the text to make it easier to see, or you can select “Close” to disable this shading.
- **Vert position:** You can select the Top, Middle, or Bottom position for displaying text on the screen.
- **Display columns start:** This is the column starting from the left that the data will start displaying on. For example, “3”, would start the text data 3 character widths from the left. You can select 1 through 54. **Note: This will affect the maximum number of**

characters that can be displayed on a single line.

- **Pole display columns:** This parameter allows you to set the maximum number of characters that can be displayed on a single line. If the “Display Column Start” is any number other than “1”, you must subtract this number from 64 to get your true maximum character limit. Any line that has more characters than this set limit will roll over onto the next line.
- **Display time:** This parameter sets the time the information will be displayed on the screen before being removed. This only takes effect after the last information has been received. If more information is sent to the ACA-POS-SP1 than can be displayed on the screen, it will display the last received data for this amount of time. You can set this parameter between 2 seconds and 99 seconds.
- **Save and exit:** Short press “Up” or “Down” to save your changes and exit the OSD menu. **Note: Information is stored on the device so power failures will not erase your settings.**