

# SP-1200 Series SIGNATURE PAD USER'S MANUAL

Rev. : A0



## I. FEATURES

- ITO resistive touch pad over 3.8" FSTN LCD in USB interface
- Adjustable LCD backlight contrast
- Display area 3" (H) x 2.3" (V) with resolution 320 x 240
- Touch resolution 500 dpi
- Tethered non-electronic stylus
- Low power consumption: 70 mA @ 5V DC under USB interface
- Provides smooth bitmap and resolution required for signature verification
- Simultaneous view of electronic signature on LCD pad (simulating familiar pen and paper experience) and monitor (for visual comparison with original card signature)

### FCC NOTICE

This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions manual, may cause interference to radio communications. It has been tested and found to comply with limits for a Class A digital device pursuant to subpart J of Part 15 of FCC Rules, which are designed to provide reasonable protection against interference when operated in a commercial environment. Operation of this equipment in a residential area is likely to cause interference in which case the user at his own expense will be required to take whatever measures to correct the interference.

### WARRANTY LIMITS

Warranty will terminate automatically when the equipment is opened by any person other than the authorized technicians. The user should consult his/her dealer for the problem happened. Warranty voids if the user does not follow the instructions in application of this merchandise. The manufacturer is by no means responsible for any damage or hazard caused by improper application.

The hardware utility program, including instructions for its use, is provided "AS IS" without warranty of any kind. Posiflex Inc. further disclaims all implied warranties including without limitation any implied warranties of merchantability or of fitness for a particular purpose. The entire risk arising out of the use or performance of the software and documentation remains with you.

### ABOUT THIS MANUAL

This manual is written in an attempt with full strength to assist the user to utilize the electronic signature capture pad SP-1200. This device is a state of the art signature pad using a USB interface to connect to the host system.

The manufacturer of the SP-1200 series heartily apologizes to the user for reserving the right to change or to modify this manual without notice due to the rapid and constant progress and improvement on science and technology. The user may always obtain the most up to date information through any of our web sites: <http://www.posiflex.com> or <http://www.posiflex.com.tw>.

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## II. INSTALLATION

### 1. HARDWARE INSTALLATION

Connect the USB cable to an USB port of the host system. Place the signature over a comfortable flat surface for application. Insert the stylus in the stylus hold at top middle of the pad. Should this device be connected to an USB HUB, it is most advisable to use a self-powered USB HUB.

### 2. DRIVER INSTALLATION

The software development tool kit with sample code for this device is available in Posiflex Product Information CD or also in web site: <http://www.posiflex.com> or <http://www.posiflex.com.tw>. The software programmer can develop the application software accordingly and include the driver and library with the software.

There is no need for driver installation in end user's concern as long as the operating system accepts USB HID (human interface device).

## III. OPERATION GUIDE

### 1. PRECAUTIONS

**Advice:** Applying a protective film smoothly and evenly over the screen surface may help greatly the endurance against minor scratches.

**Warning:** Never apply anything other than the attached stylus on the screen surface for normal signature writing. Any hard objects such as a ring when pressed against the screen surface may damage or even break the glass surface. Any consequent damage of such mistreatment is not covered by the product warranty and the manufacturer denies any liability of that.

### 2. OPERATIONS

When the signature pad is powered on through the USB interface connection, the LCD panel backlight is turned on and then a name "POSIFLEX" displayed in the LCD panel for a few seconds. The pad is then ready for controls from the software program. The contrast adjustment is the only mechanical adjustment control on the signature pad itself.

**Contrast adjustment:** Please refer to the picture at right and use fingernail or some proper tool to turn the recessed contrast adjustment knob to obtain best viewing effect of LCD under lighting condition of application environment.

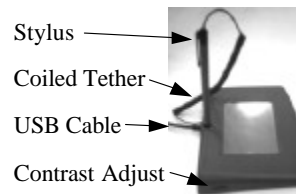
**Signature catching:** The area on the signature pad for signature catching is designed to be fully controlled by the application software.

The maximum size is the full 320 times 240 pixels. Please note that there is still a safety gap of less than 4 mm or 0.3” width between edges of this maximum area and the inner edges of the plastic opening. Of course, it is free to the programmer to limit the signature catching area to be part of the maximum area with some indication display for other control functions if required.

**Other control functions:** The area outside the signature catching area can be organized by the software programmer to provide control functions from the signature pad that may include backlight turning on or off; clearing the last signature made; saving current signature into bit map file and clearing display; turning buzzer function as response to touch on signature pad on or off and so on.

**Demo program:** The demonstration program in the software development tool kit is an example program having control touch buttons of “Clear” and “Accept” outside the signature catching area. This mode is called as “User Define Mode” in the sample program. This program also provides switching to “Full Screen Mode” (no touch control button on signature pad) and “Sleep” command (force signature catching inoperative till “Reset”).

**Disconnection:** Please disconnect the signature pad from the system only when the system is powered off or at least when there is no longer any application program controlling the signature pad running in the system.



#### IV. SPECIFICATIONS

|                          |  |
|--------------------------|--|
| Sensing Technology       | ITO resistive transparent touch pad    |
| Display Type             | 3.8” FSTN LCD panel with LED backlight |
| Display/Signature Area   | 76.7 mm x 58.6 mm (3.0” x 2.3”)        |
| Display Resolution       | 320 x 240                              |
| Touch Resolution         | 500 dpi                                |
| Actuator Type            | Tethered (springy coiled) stylus       |
| Interface                | USB 1.1 (compatible to USB 2.0)        |
| Power Source             | 5 V DC in USB port                     |
| Max. Current Requirement | 70 mA                                  |
| Width                    | 15.0 cm (5.9”)                         |
| Depth                    | 12.2 cm (4.8”)                         |
| Height                   | 2.6 cm (1.0”)                          |
| Weight                   | 0.37 kg (12.9 ounces)                  |
| Operating Temperature    | 0° C to + 45° C                        |
| Storage Temperature      | -20° C to + 60° C                      |
| Humidity                 | 85% RH, non-condensing                 |
| OS Support               | Windows 98SE, 2000, XP                 |
| SDK Support              | VB and Visual C++                      |
| Output Format            | BMP                                    |
| Agency Conformance       | FCC Class A, CE                        |