

KS – 7212/X

Fan Free Touch Terminal

User's Manual

POSIFLEX



FCC Notes:

Rev.: A0

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 terminates automatically when any person other than the authorized technicians opens the machine. 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.

About This Manual:

Posiflex has made every effort for the accuracy of the content in this manual. However, Posiflex Technology, Inc. will assume no liability for any technical inaccuracies or editorial or other errors or omissions contained herein, nor for direct, indirect, incidental, consequential or otherwise damages, including without limitation loss of data or profits, resulting from the furnishing, performance, or use of this material.

This information is provided “as is” and Posiflex Technology, Inc. expressly disclaims any warranties, expressed, implied or statutory, including without limitation implied warranties of merchantability or fitness for particular purpose, good title and against infringement.

The information in this manual contains only essential hardware concerns for general user and is subject to change without notice. Posiflex Technology, Inc. reserves the right to alter product designs, layouts or drivers without notification. The system integrator shall provide applicative notices and arrangement for special options utilizing this product. The user may find the most up to date information of the hardware from: <http://www.posiflex.com> or <http://www.posiflex.com.tw> or <http://www.posiflexusa.com> All data should be backed-up prior to the installation of any drive unit or storage peripheral. Posiflex will not be responsible for any loss of data resulting from the use, disuse or misuse of this or any other Posiflex product.

All rights are strictly reserved. No part of this documentation may be reproduced, stored in a retrieval system, or transmitted in any form or by any means, electronic, mechanical, photocopying, or otherwise, without prior express written consent from Posiflex Technology, Inc. the publisher of this documentation.

© Copyright Posiflex Technology, Inc. 2013

All brand and product names and trademarks are the property of their respective holders.

ALERT TO OUR HONORABLE CUSTOMERS:

- Please always read thoroughly all the instructions and documents delivered with the product before you do anything about it. Don't take any premature action before you have a full understanding of the consequences.
- This product contains inside a Lithium battery. Please always follow local environmental protection laws / regulations for disposal of used batteries and always replace only with battery of same type.

DAILY MAINTENANCE GUIDE

For regular cleaning of the KS systems, please use only soft haired brush or dry soft cloth. You may use moist soft cloth to remove stains when necessary. Apply only proper amount of mild neutral detergent for obstinate stains. Please note that never use Acryl dissolving solvent or Polycarbonate dissolving solvent. You may apply ammonia-based glass cleaner only on the screen surface.

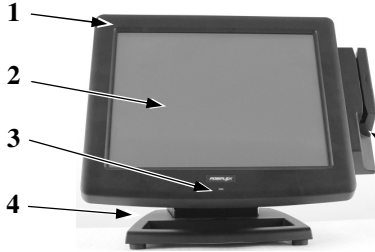
CAUTION

**Risk Of Explosion If Battery Is Replaced By An Incorrect Type
Dispose Of Used Batteries According To Local Regulations**

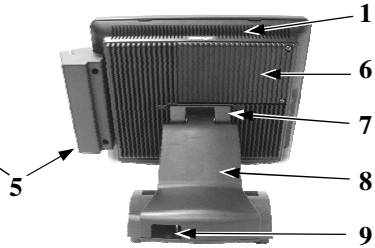
INTRODUCTION

PRODUCT PICTURES

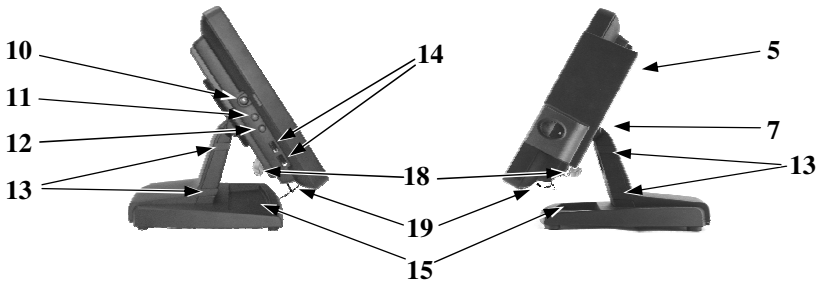
Front View



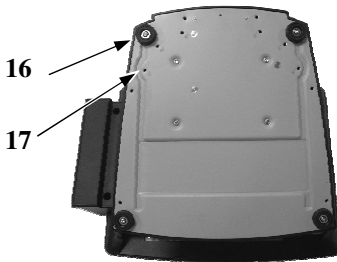
Rear View



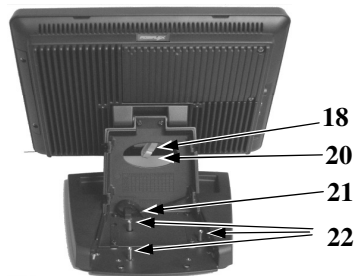
Side Views



Bottom View



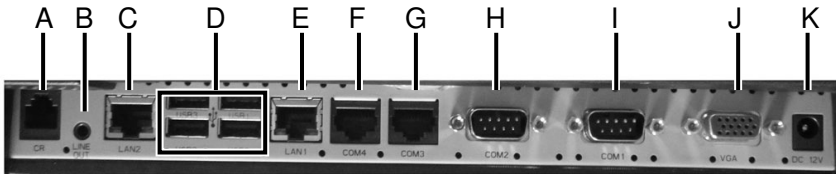
Inside Base



PARTS IDENTIFICATION

1. Main unit
2. Touch panel / LCD panel
3. Power indicator
4. Base stand
5. Optional side mount kit
6. HDD cover
7. Hinge cover
8. Base back cover
9. Cable exit
10. Power switch
11. LCD brightness up button
12. LCD brightness down button
13. Base back cover hook
14. USB ports on left side
15. Sundries trough for pencils, paper clips etc.
16. Rubber feet with fixing screws
17. Screw holes for base mount pole display kit
18. Cable tie (in the terminal's back cover for desktop use only)
19. Cable tie (in the I/O plate for wall mount use only)
20. Oval cable passage on cast base trunk
21. Cable tie for all cables
22. Screw posts for optional HDD in base

I/O Panel



Call out	Label	Description
A	CR	Controlling up to 2 cash drawers
B	LINE OUT	Audio Output
C	LAN2	LAN port, connecting to Ethernet
D	USB0-3	4 USB ports, connecting to USB devices
E	LAN1	LAN port, connecting to Ethernet
F	COM4	RJ45 Com port, connecting to peripherals
G	COM3	RJ45 Com port, connecting to peripherals
H	COM2	DB9 Com port, connecting to peripherals

I	COM1	DB9 Com port, connecting to peripherals
J	VGA	Connecting to secondary display
K	DC IN	Connecting to 12V/50W power supply

PRODUCT FEATURES

Standard Features:

- a) CPU: Intel® Pineview processor D525 (1M Cache, 1.80 GHz)
- b) Chipset: ICH8M
- c) Fan free structure for harsh environment
- d) Data storage device: SATA HDD 2.5" 320 GB or SSD HDD.
- e) Mini slim base featuring a storage room for optional 2.5" SATA HDD.
- f) Supports Win XP Pro, POSReady 2009/7, Win 7, and Linux
- g) 12" TFT LCD, 1024 x 768
- h) Monitor tilt adjustment angle from 20° to 90°
- i) LCD brightness adjust buttons at side of main unit
- j) Touchscreen: 5-wire resistive with USB interface
- k) Durable resistive type touch panel that endures 35 million touches min. at same spot
- l) Supports various I/O ports:
 1. 4 x COM ports (DB9 x 2, RJ45 x 2), supporting +5V DC output.
 2. 6 x USB ports (4 on rear panel, 2 on left side)
 3. 2 x Ethernet LAN port supporting 10/100/1000 Base T
 4. 1 x CR port controlling up to two cash drawers.
 5. 1 x lineout for audio output.
 6. Reserved one LPT interface through use of optional special cable in service window
- m) One built-in internal 2W speaker
- n) Power Supply: 50W, 12V DC
- o) Power On Wake UP: Alarm/LAN

Option Items:

Note: The underlined items in the following list means that option must be set prior to shipment from the factory. The rest items can be set by the dealers.

- a) DDR3 1066MHz memory expansion up to 4GB max.
- b) SSD of at least 8GB.
- c) Base installation kit for HDD.

- d) Integrated side mount upgrade kit:
 - ✧ SD-500 series with options of MSR and optical fingerprint sensor in USB interface
- e) Integrated base mount upgrade kit:
 - ✧ LCD Pole display PD-309/309U
 - ✧ VFD Pole display PD-2605/2605U
- f) Integrated rear top mount upgrade kit:
 - ✧ LCD Pole display PD-310/310U
 - ✧ VFD Pole display PD-2604/2604U
 - ✧ LCD Display: PD-6307 / LM/TM-6307
- g) Integrated Keypad
 - ✧ KP-312: 36-key lockable keypad with optional MSR and Smart Card reader
- h) Secondary LCD Display: 12" LM-2412
- i) Wireless LAN adaptor in USB interface
- j) Preload OS Win XP Pro, POSReady 7/2009, Win 7, or Linux
- k) RJ45 to DB9 serial port conversion cable (for COM 3/4 port)
- l) Split cable for 2 cash drawer control
- m) LPT interface conversion cable
- n) Wall mount kit.

INSTALLATION GUIDES

CAUTION: Before any installation or cable connection to the set, please always make certain that the system is turned off and the external power source to the set is removed to prevent electric hazard! Never touch any metal pin in the connectors or circuits to avoid high voltage hazard or electrostatic discharge damage unless the operator is well grounded. Failure to do the above will void the product warranty!

TECHNICAL MANEUVERS

Applicable technical maneuvers for this terminal include serial COM port power supply settings, VGA port power supply setting, system CMOS data reset, DRAM upgrades. All these technical maneuver operations require purchase of applicable Technical Manual from Posiflex or consultation from Posiflex authorized dealers and should be handled only by a **qualified technician**.

TILTING LCD PANEL

The tilting mechanism for this terminal utilizes hinges and there is no particular skill to turn the LCD panel to most suitable angle for either viewing or convenience in cable connection / disconnection.

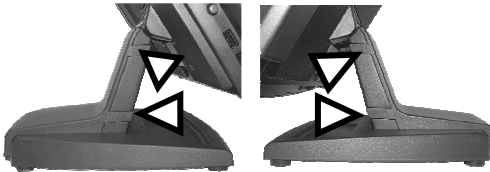


DISCONNECTING ALL CABLES

With the LCD panel turned to most backward position, the main I/O connector area will be easily accessible at bottom side of the main unit. Please **first note orientations of every existing cable connection** and then disconnect every cable properly before any further reconfiguration of cable connections.

Please note that the click lock spring has to be pressed down prior to pulling out the connector such as the LAN port or the CR port or the alternate RJ45 form COM3/4 port. Please also note that the fixing screws have to be loosened free prior to disconnection such as the 2 regular DB9 form COM ports or the VGA port. Please **always hold the connector head** instead of pulling on the cable wire when disconnecting any connector. Failure to do this could damage the cable and jack that is considered as an **artificial destruction. Damages due to incorrect disconnection operation are not covered by product warranty!**

OPENING BASE BACK COVER



In order to settle the touch terminal properly in a point of sale system, all the cable connections have to be routed through its base.

Therefore, please observe the side view pictures of the base trunk at the left and release the triangle marked hooks to remove the back cover.

CABLE ROUTING IN BASE

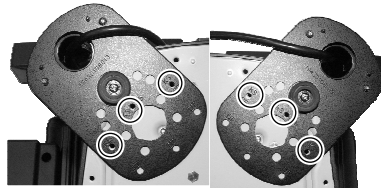
For cable routing in the mini slim base, please refer to the picture at left. There is a cable tie inside the base trunk as arrowed in the picture. Hold all the external cables with the cable tie. Have all cables to pass through the oval hole on the trunk as triangle marked to come out of the front side of trunk. Connect all the cable ends to main unit. Should there is the option SATA HDD in base installed, please double check that the HDD cables must be still secured.



CUSTOMER DISPLAY UPGRADE KIT (OPTION)

Base Mount Pole Display

This terminal features a mini slim base, and LCD customer display PD-309/U or the VFD PD-2605/U can be attached to either rear corner of base bottom. Refer to the pictures at right. Use the 3



attached screws to fix the metal base plate of the PD to bottom plate of mini slim base at the circled positions (the holes marked with “KS” on bottom plate of PD against the holes marked “P” on bottom plate of KS system). Connect the interface cable to go into the base through cable exit arrowed at right to the main unit.

Rear Top Mount Customer Display

A · PD-310(U)/ 2604(U) Pole Display :

To mount the rear top mount upgrade kit like PD-310 or PD-2604 on the back of the terminal, please apply carefully the 2 small fixation shoulder screws that come along with PD-310/U or PD-2604/U to the back of this terminal at the upper screw hole circled in the right pictures. Please do not screw them to the bottom. Hook the 2 most left screw holes on rear bracket of the upgrade kit arrowed in the picture onto the shoulder



screws. Slide down the upgrade kit and gently tighten the shoulder screws.

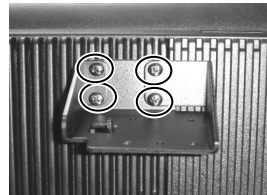


Do not overdo the tightening or unrecoverable thread damage will occur. If the customer display used is the USB interface model, the DC supply in COM port is not required, it will be powered through the USB port.

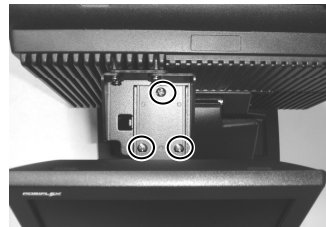
B • PD-6307/LM/TM-6307 LCD Display:

There are two parts of **PD-6307/LM/TM-6307** bracket need to combine during the installation process and please refer to the following steps to assemble properly.

Please take out the join bracket and use the attached 4 pcs long screws to fasten this bracket to the main unit back cover which circled in the right picture.



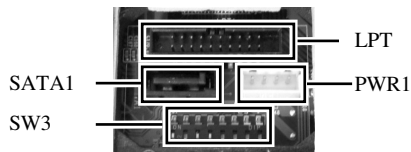
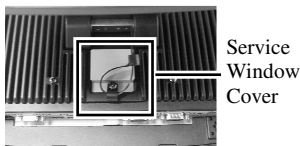
Then, hold the LCD monitor with bracket and aim to join bracket which just fixed on the main unit and fasten these 3 pcs short screws which circled in the right picture to attach LCD monitor to the terminal.



PREPARING THE MAIN UNIT

The service window, locating at the back of the main unit just below the pivot hinge and concealed under a protective cover, provides a LPT port, a SATA connector, HDD power connector, and a DIP switch.

To access the service window, place the main unit on a clean and flat surface with the display facing downward, and then remove the securing screw and the cover.



The following table depicts the usage of all the ports under service window. However, it is highly recommended only the trained or certified technician should configure the DIP switch, for incorrect configurations might cause unexpected results or even damage the terminal.

Label	Description
LPT	Connects to the parallel device via a conversion cable.
SATA1	Connects to external SATA HDD.
PWR1	Connects to external SATA HDD for supplying power.

DIP Switch	Description
1 On 2 Off	Default
1 Off 2 On	Clear CMOS
3	Off Linux or WinCE On Windows OS (Default)
4	Off Fujitsu Touch Panel On ELO Touch Panel or ABON Touch Panel
5	Off Windows/Linux/Win CE (Default) On MS-DOS
6	Off Enable On Board USB Touch On Disable On Board USB Touch
7	Off Reserved On Reserved
8	Off Reserved

SIDE MOUNT UPGRADE KIT (OPTION)



Remove the 2 screws circled in the left picture to remove the cover for side mount upgrade kit. Take out the cable inside this cover and connect it to the white connector inside the side mount upgrade kit like SD-500 series as arrowed in the right picture. Gently arrange the excessive length of this cable back in the hole and screw-fit it back to the position originally occupied by the cover. Please



reserve the cover if there is chance to have the side mount kit removed in the future.

CONNECTING CASH DRAWER (OPTION)

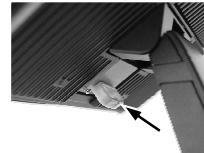
The RJ11 connector in I/O area of the terminal can be used for controlling most of the common cash drawers available on the market. However, it is most recommended to use Posiflex CR-2200 or CR-2210 or CR-3100 or CR-4000 or CR-4100 or CR-6300 for best compliance to operate the opening mechanism and to monitor the drawer open status.

This cable of Cash Drawer has a 6-pole plug at one end and an 8-pole plug at the other. The 8-pole plug should be inserted into the connector of the cash drawer which marked "Signal". The 6-pole plug should be inserted in the connector marked "CR" which can found in the main connection area in the system.

The user may also purchase the optional 2-in-1 cash drawer control cable to control 2 cash drawers in 1 port. It has a 6-pole plug at one end and two 8-pole plugs at the other. The 6-pole plug should be inserted in the connector marked "CR" found in the I/O area in the system. Each 8-pole plug should be inserted into the connector marked "signal cable from POS Printer" at the rear of one of the cash drawers.

CONNECTING CABLES

To have the re-assembled main unit with stand assembly ready for operation, please connect all required cables to the appropriate connectors. Please make sure that each connector is connected to the correct port with the correct orientation. **Damages due to incorrect connection or orientation are not covered by product warranty!**



Some connectors like the COM3/4 or LAN or CR connector have to be gently inserted until a click is heard. It is recommended that connectors such as the COM1/2 and VGA connector be screwed into place once seated.

Adjust the slack of each cable. Use the cable tie arrowed in the right picture to hold all the cables together. Re-adjust the tilt angle of the screen for best viewing.

Connect the cables to appropriate external devices through the cable exit at the bottom of stand assembly. Please make sure that each connector has to be connected to the right device in the right way.

CAUTION: On doing any insertion or extraction of any connector, please always hold the connector head itself instead of pulling on the

cable wire. Failure to do this could damage the cable and jack that is considered as an artificial destruction and is not covered by the warranty.

OPERATING SYSTEM RECOVERY

For the terminal preloaded with operating system in HDD, Posiflex provides recovery DVD delivered with the touch terminal for the preloaded operating system. The System Integrator shall take care of software restoration after OS recovered. A Posiflex supplied USB interface COMBO drive will be required for such action. Other brand COMBO drive may require its specific driver different from what supported in the recovery DVD.

Please use the recovery DVD in rescue operation only. Using it otherwise may wipe out whatever stored in the HDD! All upgrade devices drivers needed for manual installation in usual way are available in the subfolder “\drivers” in OS recovered HDD and the latest versions of these required drivers will be available on our web: <http://www.posiflex.com.tw>. Then follow instructions from your system integrator for software recovery.

OPERATING SYSTEM INSTALLATION

The installation of an OS into a machine without any preloaded OS could constitute major difficulty for average user or obstacle by possibly unintentional negligence even for PC veterans to accomplish such a task. Therefore, OS installation into a system without preloaded OS is highly discouraged. Posiflex shall not be responsible for any technical support to questions arisen due to non-preloaded OS.

USING THE TOUCH TERMINAL

APPLICATION ENVIRONMENT

It is **very** important that you check the following operational guidelines:

Ventilation

This terminal must **NOT** be operated in an environment with restricted ventilation. There must be at least 25 mm air clearance around any top or side ventilation holes with a free flow of air around the unit at **ALL** times for the installation.

Operating Environment

The equipment must not be operated or stored in extremes of both temperature and humidity/moisture. (Operating range 0°C to 40°C and up to 80% humidity – non condensing, max. wet bulb 26°C)

Power Supply

The operating voltage range of the power adaptor should cover the local power supply for proper operation. The power cable, the power outlet and any power fusing arrangements must conform to local safety regulations.

Please **never do any connection / disconnection** when system is still powered on. **Please always keep the external power adaptor in a free air circulation.**

POWER ON/OFF CONTROL

Power Indicator

There is a power indicator LED at center of lower rim of LCD panel. This LED lights up orange when external power is ready and turns to blue when system power is turned ON.

Hardware Power Switch

The power switch located at left side of the main unit is a tactile pushbutton switch. This switch controls the power on/off of the system. After external power is preset, this switch turns the system on when pushed only. This switch turns the system off when pushed again during power on status. However, if the system hangs due to any reason such as software resource conflict, a simple push power switch may fail to turn off the power. In this case, please utilize the **forced power off feature** by pressing the power switch and holding for more than 10 seconds.



There must always be at least 10 seconds waiting before switching on again once the system is powered off successfully.

Automatic Power On Control

The system may also turn on according to some preset conditions such as Alarm Clock Wake Up or LAN Wake Up.

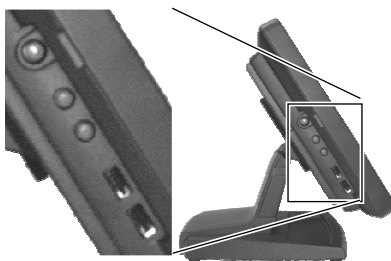
To utilize Alarm Clock Wake Up function, the user should enter the BIOS setup by pressing “Del” key at system boot up, choose in “Power Management Setup” and make the “Resume by Alarm” for Alarm Clock Wake Up. Save the configuration and exit the BIOS setup program.

The Preset Power On Control will then be ready. For LAN wakeup, the item “PCI Express PM Function” must be enabled in “Power Management Setup” and an operating caller system connected through LAN to the system is required. It also requires a qualified networking technician to check the LAN chip ID of the system for the caller system to wake up.

When the terminal is turned off after a successful boot up with external power continuously supplied, the preset automatic power on functions will keep monitoring for the preset conditions and turn on the system when the preset conditions are met. Please note that if the terminal is improperly turned off before a complete boot up procedure, the above preset power on control functions will be disabled until next turning off after a complete boot up.

BRIGHTNESS CONTROL

At left side of the main unit below the power switch, there are brightness adjust push button switches and two USB connectors. Each single press on the + or – button changes the LCD panel display brightness by a small amount. When you press and hold the button the change will keep on until release or extreme condition matched.



USB PORTS

There are in total 6 USB ports for external connection: 2 at left side below power switch and LCD brightness adjust buttons; 4 in I/O area. All of them comply with USB 2.0 standard.

CUSTOMER DISPLAY

Please follow the instructions on the manual that comes along with the customer display when it is installed.

DISPLAY ISSUES

Main LCD Display

For best viewing result please set your display resolution at 1024 x 768 with high color.

VGA Port

The VGA port in this terminal supports either a base mount 2nd display or a separately connected LCD or touch monitor. To support the DC power to the 2nd display monitor, have a qualified technician to set an internal jumper in KS main unit to supply the required power through the VGA connector according to Posiflex technical information. **Do not connect other monitor to this port before the power in this port is disabled.**

SERIAL PORTS – COM1/2/3/4

This terminal features four COM ports. All can be configured to supply +5 V DC output through BIOS setup or jumper settings. COM1/2 ports are standard RS232 serial ports as status at delivery. COM3/4 is also set to standard RS232 serial port as status at delivery if the option conversion cable is applied.

PARALLEL PORT

For this terminal, the parallel port is optional for order and must be coupled with an optional conversion cable. It should be connected to the special connector inside the service window as described earlier. The other end of the cable is the normal 25 pin D sub female LPT connector.

AUDIO OUTPUT SPEAKER

The terminal features a built-in speaker with maximum audio power of 2W at lower left corner of the main unit. The internal speaker will be automatically disconnected when a plug is inserted in the line output jack.

TOUCH PANEL

All paragraphs below are applicable for models with touch panel only. The user of those models without touch panel can ignore them and consider this user's manual ends here.

Mouse Emulation

When the touch driver is properly installed, this touch panel works exactly like a standard mouse for each interface. However, if the system is running under safe mode, the touch panel calibration may become unsatisfactory due to disabled drivers. It is recommended to use a standard USB mouse or keyboard in this mode.

All the below mentioned mouse emulation functions can be manipulated through relevant software. The system can give a beep and a click on the left button of a mouse at the point when the touch panel is touched. If the point touched is dragged across the screen surface, it works as the mouse drag and drop feature. If the point is touched, released and touched within a short time interval, it is double-clicking left button of the mouse. To obtain the effect like clicking on the right button of a mouse, touching any point on the screen surface after touching the right-click sticky button results as a click on the right button of the mouse at that point.

Touch Manager

Touch Terminal Manager for each type of touchscreen is available for user to set up touchscreen functions. If your system is preloaded with the OS of your choice, the chances are the Manager is already installed on your system. Nevertheless, you can also download the Manager from our website:

1. Visit us at <http://www.posiflex.com>, and click **Support** on the main menu bar.
2. On **Support** page, click **Download** on the left to access **Download** page.
3. In **Search by keyword** search bar on **Download** page, type “Touch Terminal Manager”, and then press **Enter**.
4. In the search results, select and download the Manager that suits the touchscreen type of your system.

警告
本電池如果更換不正確會有爆炸的危險
請依製造商說明書處理用過之電池

