

HT-3600 PB-3600 Series User's Manual

POSIFLEX



Rev. Original

FCC Notes:

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 its 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.

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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.

DAILY MAINTENANCE GUIDE

For regular cleaning of the HT/PB-3600 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.

BRIEF INTRODUCTION

THE USER'S MANUAL

The purpose of this manual is to guide the user in the initial installation and general use of the Posiflex HT/PB-3600 series of POS terminals. It does not explain any application software that may be supplied with it.

We intend to provide our customers with all technology advantages available by evolving the product design to incorporate appropriate changes and improvements. So some detail differences may exist between this manual and the equipment supplied.

For more detailed or technical information please refer to the CD-ROM disc associated or consult our authorized dealers or visit our web site: <http://www.posiflex.com.tw/> or <http://www.posiflex.com/>

THE PRODUCT

The Posiflex range of HT/PB-3600 terminals have been designed and manufactured to meet the high reliability demand on POS systems. It incorporates all the advances of PC technology within a rugged housing designed for use in a hostile retail environment. By providing an integrated design, it has retained many of the secure features of a traditional ECR and has avoided the wiring "spaghetti" associated with more traditional PC solutions. This Open Standard Architecture ensures that this terminal can use the PC

application software and development tools that are now inexpensively available and abundant.

For the HT-3600 series terminal is powered by most up to date CPU and provides a color TFT LCD screen with a resistive type touch control panel on sturdy and easily adjustable structure on top of the main unit. HT/PB-3600 series may be used as a self-content unit or as one of several terminals in a network system controlled by a “back office” computer through the integrated network interface. Versatile options besides the basic model selection can apply to it as well. Although PB-3600 is same as HT-3600, PB-3600 comes without LCD display.

THE STANDARD FEATURES

- CPU:** VIA Nano L2207 1.6G CPU, 1M cache
- HDD:** SATA HDD.
- RAM:** SO-DIMM socket * 1 ,DDR-3 1066 MHz ,Max 4GB
- Data storage device:** SATA HDD 2.5” or SDD HDD
- Touch control functions:** left/right button, double click, drag & draw
- Ethernet Networking:** One LAN port Ethernet 10/100/1000 Base T with LAN status indicators on jack
- Serial Ports:** There are 4 serial ports in a HT/PB-3600 system with optional +5V (through BIOS setting) and +12V (by jumper setting) power on COM1/2/3/4 and it is default as no power at delivery.
- Parallel Port:** Each HT/PB-3600 system is equipped with a parallel port that supports SPP/EPP/ECP.
- VGA Port:** There is a VGA connector for connection of external monitor with (BIOS setting) + 12 V DC power supply included. It is default as no power at delivery.
- USB Ports:** The HT/PB-3600 series is equipped with 5 USB type A connectors for connection of USB (Universal Serial Bus) devices.
- PS/2 KB Port:** 1 PS/2 KB port
- PS/2 Mouse Port:** 1 mouse port
- CR Port:** Capable of controlling 2 cash drawers max.
- PCI Slot:** 1 PCI extension slot.
- Modem Ring-Up, LAN Or Alarm Wake-Up:** The HT/PB-3600 series can be turned on automatically upon an incoming COM port Modem call or LAN status or data packet received on LAN or a preset time/day/week/month.
- +5V DC Power supply control of COM1/2/3/4 and + 12V DC VGA port can be set up through BIOS setting.**

THE OPTIONAL ITEMS

Note: These items below must be installed by the qualified technician. Attempt to apply them by end users is either too difficult or is likely to cause damages. Italic items below are stand alone peripheral devices.

- a) Data Storage: SSD kit
- b) Wireless LAN Adaptor(Optional and can be add by user):
USB interface, IEEE 802.11b/g
- c) Preload OS: WinXP-Pro, POSReady 7, Win 7, DOS, WinCE 6.0.
- d) Support CRT2 through internal interface for PB-3600.
- e) Internal speaker(This must installed prior to delivery from factory)
- f) **UPS Battery:** 2.3 AH 12V lead acid maintenance free battery
- g) PCI Riser Card.
- h) One 24 V & one 12V power USB port support through a daughter board (**When HT/PB series equipping with this Power USB kit the power adaptor must be upgrade to 150W.**)
- i) SD-300 for HT-3600.

SYSTEM BOX CONTENTS

When you receive the system box you will find it contains several items:

- HT-3600 system unit with the 12.1" LCD panel integrated on top or PB-3600 system unit without the cashier display panel.
- User's manual.
- Recovery DVD for preloaded OS or Posiflex Product Information DVD for driver utilities without OS.
- Optional components installed to system unit as ordered.
- Power adaptor and power cord.

INSTALLATION GUIDES

IMPORTANT

Please do not connect the power adaptor or turn on the main unit until you have fully read the installation guides and followed the instructions!!!

TECHNICAL ENHANCEMENTS

Applicable technical enhancements in HT/PB-3600 series include serial COM port power supply settings, VGA port power supply setting and DRAM upgrades. All these technical enhancement operations require purchase of applicable Technical Manual from Posiflex or consultation from Posiflex

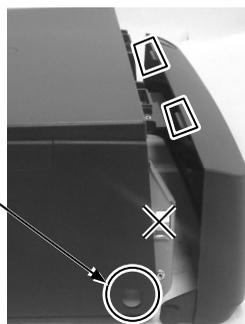
authorized dealers and should be handled only by a **qualified technician**.

MAIN CONNECTION AREA

The HT/PB-3600 series is constructed for very easy maintenance. Press inward both plastic buttons at lower rear corners on both sides of the system unit (circled in right picture) to release the lower part of back cable cover. Please note that there are 2 plastic hooks on top cover holding the back cable cover as marked on upper part of the picture. Carefully release the back cable cover from the hooks to show the main connection area.

Carelessly pressing on these 2 springs **could cause damages**. The **user** shall be **responsible** for **such kind of damage**. For the HT-3600 system even the maintenance technician must always put a piece of clean flat foam of sufficient size in front of the system unit before pressing these 2 springs. The LCD and touch panel may flip forward by gravity and get or cause damage by hitting anything in front of the system unit. For the PB-3600 system the maintenance technician must always pay attention to always disconnect all power and cable connections before pressing the 2 springs and not to cause any damage either in the top cover opening operation after pressing the 2 springs or by leaving or spilling any improper materials inside after the opening operation.

**Push This Button
and also The One
on the Other Side
to Open Cable
Cover**



Note: Please DO NOT press the 2 springs on the metal walls as cross marked in the picture.

WIRELESS LAN (OPTION)

When the wireless LAN option is ordered with the HT/PB-3600 system, this option is already installed in the delivery inside the back cable cover with its cable connected to one of the USB port. This cable **must be disconnected first** if installed whenever the back cable cover is opened for any operation.

UPS BATTERY (OPTION)

When the HT/PB-3600 system is installed with the UPS battery (with also an option of UPS function module), the UPS battery is in the carton at delivery. Please take it out and place it in the battery compartment at center upper part of the connection area indicated as upper rectangle in picture at right. Connect the cable to its connector in the main connection area lower rectangle in picture at right **only when the system is about to power up for operation. Always disconnect the UPS battery** when the system is to be left powered off for more than few days. Please pay particular attention to the environment requirement for UPS battery in next chapter “USING THE HT/PB SYSTEM”.

UPS Battery Compartment



UPS Battery Connector

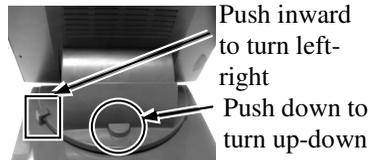
PCI EXTENSION CARD

The PCI extension card is not pre installed; therefore, it is a possibility to add a PCI extension card. However, the whole operation will involve cautiously accessing the interior of the system, replacing the slot window metal plate, applying the card.

LCD DISPLAY (for HT-3600 only)

Push down the round plastic button at rear of the display base as circled in right picture to adjust the display up and down. Release the button when done will lock the panel firmly for application.

Pushing the rectangular shape plastic button to its right toward the base center allows user to adjust the display horizontally for best view angle.



10" 2ND DISPLAY (OPTION)

When the HT-3600 series is ordered with the 2nd display monitor LM-2010 or when the LM-2010 is ordered for PB-3600 to work as the primary monitor, the monitor will be delivered in separate package from the system unit. Please **follow the Installation Guide in package of the option**. Then please open the system unit and set the



+12V DC supply in the VGA connector under technical guidance from your distributor.

CUSTOMER DISPLAY (OPTION)

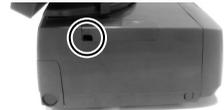


For HT/PB-3600 series, Posiflex provides customer pole displays for terminal integration such as PD-2601/2601U and PD-307/307U. Please **follow the Installation Guide in package of the options**. The customer display will occupy one USB or COM port in the connection area. Consult your distributor for technical support on setting up the +5V DC supply to the COM port used if the customer display is of the serial interface type.

SIDE MOUNT UPGRADE KIT (SD-300 Option for HT series)



When a side-mount upgrade kit option SD-300 is ordered with the HT-3600 system, this option is already installed in the delivery. No matter the kit it contains MSR



only, finger print sensor only or both options, the connection to the HT-3600 system is one USB cable inserted to the extended USB port at top right edge of the system unit as circled in the upper picture at right.



After removing the plastic cover by pushing it side way, the extended USB port can be found as marked in the lower picture at right.

The USB cable from the optional side mount upgrade kit SD-300 should be inserted in the cable hook on back of LCD panel as circled in left picture.

Note 1: Please do not any connect / disconnect action when system is still powered on. Please always keep the external power adaptor in a free air circulation.

OPERATING SYSTEM RECOVERY

The operating system exists in the HDD which in the system unit. Once the software system on HDD damaged, it is possible to restore the operating system onto a physically intact HDD with use of the Recovery CD or DVD that comes with the preloaded operating system. Please follow the instruction from your system integrator for system / software restoration. Following

instructions is for operating system recovery only if your system integrator does not advise otherwise.

For the HT/PB-3600 system preloaded with Windows system on HDD, Posiflex provides recovery DVD delivered with the hybrid terminal for the preloaded operating system. The System Integrator shall take care of software restoration after OS recovered. Use a USB interface external CDROM or DVD COMBO drive for such action.

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> or <http://www.posiflex.com.tw>.

Now please follow instructions from your system integrator for software recovery after OS recovery and driver installation.

OPERATING SYSTEM INSTALLATION

This product is highly professionalized equipment. The installation of an OS into a machine without any preloaded OS could constitute major difficulty for average user who either has barely limited technical knowledge of this professionalized equipment or is insufficiently equipped with necessary facilities to accomplish such a task. Therefore, installation of an OS 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 HT/PB SYSTEM

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 site in direct sunshine, near a heater or in a damp and must be free from contaminants like dust, smoke or fume.

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% relative humidity – non condensing max. wet bulb 26°C)

Power Supply

The power cable, the power outlet and any power fusing arrangements must conform to local safety regulations.

UPS Battery (option)

General care:

The UPS battery is consumable beyond product warranty. Please definitely observe the alerts in beginning of this manual. If the equipment is to be powered off for more than few days, please always **disconnect** the battery from the system. Reconnect it and turn on the system to recharge the battery for 1 ~ 2 hours every 3 months for temperature lower than 30°C. Recharge for 1 ~ 2 hours every month for temperature over 30°C. Temperature above **40°C must be strictly avoided** as it could cause termination of battery life and unexpected result even if the battery is not in work. The UPS battery can support basically the data preservation and smooth running of the system during intermittent or few minutes (2 ~ 6 min. depending on loading and battery condition) power failure if the UPS function module option is installed.

Battery replacement:

In the preloaded OS for a HT/PB-3600 series with UPS function module option, there is a built in utility Posiflex Power Switch Manager that will indicate the UPS battery status of the battery. When an installed UPS battery is found to be disabled or when pop up warning message like this picture appears, please



replace the used up UPS battery at power off as soon as possible.

Emergency treatment:

The battery is constructed maintenance free and leakproof. Its storage space in HT/PB-3600 system also provides very good protection as long as the ambient temperature remains below 30°C and the ventilation of the HT system remains free. However, should any accident happen and the sulfuric acid from the battery spills on skin or clothing, wash immediately with water. If the acid comes in contact with eyes, rinse eyes with large amount of clean water and see a doctor immediately. A larger external battery may be connected to give an extended operation. Please check your dealer about this capability when required.

WARNING:

If there are any signs of over charging or leakage of electrolyte please contact your dealer immediately

VGA Display Port

The VGA port in the HT/PB-3600 terminal supports a 12 volt DC power to the external (secondary) monitor through the VGA signal cable after proper internal setting change. This may cause permanent damage to any other monitor not designed to use this facility. Please use only a Posiflex LM-2010 monitor designed for the HT system. Consult your dealer if you have any doubt. It is strongly advised that connection/disconnection to this port should never take place when system power is ON. The video memory shares from the system memory. The video memory size shares system memory 128MB up.

Note: 12 volt DC power is available on pin 9 of the VGA connector and can be available through BIOS setting.

Serial Port – COM1

Please always occupy COM1 serial port by a suitable serial device or this terminator. If this port is left vacant or connected with something like a mouse, the power switch management and the cash drawer control may fail to work correctly. As well as an RS232 MODEM is not applicable to this port.

LED INDICATORS (for HT-3600 only)

On bottom rim center of HT-3600 system cashier LCD panel, there are 2 LED indicators. The LED at right indicates the LAN status. When it lights up in green, the onboard LAN chip is linked. When it flashes in yellow, data transmission in LAN is in process. The LAN status indication is also observable on the LAN connector in main connection area. The LED at left

indicates Power/Stand-By status.

POWER ON/OFF CONTROL

The HT/PB-3600 terminal implements electronic power control, such that the main power to the system may be controlled by many methods as below:

1. Hardware power switch
2. Software OFF command
3. Automatic power ON control
4. Emergency power OFF

Hardware Power Switch

This button is located at bottom front corner of right side as in right picture and can be used to turn the system on and off alternatively. When this option is installed, this hardware switch can also be programmed to be an ON only switch through software command so that when this switch is accidentally pressed during system turned on, the system just remains on and unaffected.



Software Off Command

The system may also be shut down under software control. Please just follow the arrangement by your system integrator for this capability.

Automatic Power On Control

The system may also turn on according to some preset conditions such as Modem Ring Up and LAN Wake Up. To utilize Modem Ring Up function, please enter the CMOS setup by pressing “F2” key at system boot up, choose for “Other Control” in “Power” and make the “Resume on Modem Ring” ON for Modem Ring Up. Save the configuration and exit the CMOS setup program. The Preset Power on Control will then be ready after a normal power off. For LAN wakeup, 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 HT/PB-3600 system for the caller system to wake it up.

When the HT/PB-3600 system is turned off after a successful boot up, 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 HT/PB-3600 system 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.

Emergency Power Off

In case of serious system halt due to any reason, the system could fail to be powered off through normal means. Press and hold the Power ON/OFF Switch for Emergency Power Off. Release the switch after the system powered off. It will take about 10 seconds.

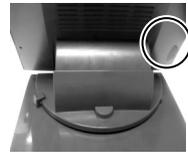
MAIN LCD TOUCH MONITOR (for HT-3600 only)

Mechanical Adjustments

The 12.1" LCD color display is integrated on display platform to give the operator the clearest view. The inclined angle of the display may be adjusted from 15° to 50° and rotated from straight forward to 16° to the left.

Display Controls

On lower left edge of back of the LCD panel there is a plastic wheel knob as circled in the picture at right. Please turn this knob up or down changes the brightness of screen display accordingly.



Display Utility Driver

The end user of the HT-3600 terminals is not supposed to install the utility drivers personally. If an optional preloaded OS is ordered, the required driver will be already installed in the preloaded OS. However, the driver will always be available over our web site: <http://www.posiflex.com>

Touch Function

Mouse emulation

The touch panel in HT-3600 system works like a standard mouse within the (primary) screen display area when its driver is properly installed. However, if the system is running under safe mode due to a previous improper shutdown or for any other reason, most drivers are disabled in this mode and the touch panel calibration may not coincide with the mouse pointer or even completely out of work. It is recommended to **use an USB mouse or USB keyboard in safe mode.**

All the below mentioned mouse emulation functions in the primary display area can be manipulated through relevant software. The system can give a beep when the touch panel is touched and can respond as if the left button of a mouse is clicked at the point touched. If the point touched is dragged across the screen surface, it can respond as if it is using the mouse drag and drop feature. If the point is touched, released and touched within a short time

interval, it will simulate double-clicking left button of the mouse.

Touch terminal manager

Before using the resistive type touch control panel, dual-touch function can be apply if you connect any Posiflex USB controlled touch monitor to the VGA port of HT-3600 system for extended secondary display application.

A program named “Posiflex Touch Terminal Manager” is installed in the preloaded Windows system for the user to maneuver versatile features of the touch terminal with a touch panel controller. This program can also be obtained by download from the *POSIFLEX* web site <http://www.posiflex.com> . Conversely, the installation process of this driver for Windows system requires some careful attention to the notice messages.

With proper setup and selection on control items in “Posiflex Touch Terminal Manager”, a drawing representing a 2-button mouse will appear on the desktop. Touch the right button in this drawing. Any touch on the screen after this action will result in a right button mouse click at the point touched. After touching the left button in this drawing the screen touch will resume the left button function. This program also controls the beep generated when the touch panel is touched, the detail in right button click emulation, and also provides touch panel re-calibration. In principal, the touch panel requires no further calibration once properly set.

USB touch manager

A program named “Posiflex USB Touch Manager” and a right-click sticky button tool in the program group “Posiflex USB Touch Tools” is installed in the preloaded Windows system if a USB interface touch panel controller is installed.

CUSTOMER DISPLAY

The optional customer display mounted on a pole at rear corner of HT/PB-3600 system can be turned horizontally or vertically for best viewing effect in application.

USB

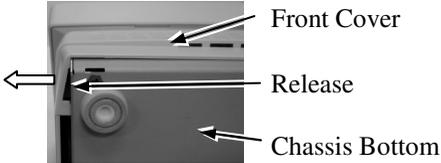
There are 5 standard USB connectors in the rear I/O plate. All support the Universal Serial Bus Specification standard 2.0 and also 1.1. If for any reason these ports has to be limited as USB 1.1 only, please enter BIOS setup and go to “Integrated Peripherals” then “Onboard Device” and disable the item “USB 2.0 Controller” and enable it back afterwards.

VENTILATION MAINTENANCE

To keep this equipment in orderly service, following maintenance should be performed on a regular basis.

Removing Front Cover

Please first remove any power and signal connection to this equipment. Please



then check at the bottom side of the chassis that there is a gap between the bottom side of front cover and the chassis at the left corner of front cover. Pull the front cover

out from this opening to release the left side hook of front cover from the chassis as indicated by the hollow arrow in the right picture.

Please then pull the bottom side of front cover forward to release the bottom hooks of front cover from the chassis as indicated by hollow arrow in left picture.



Now pull the left side of front cover down a little to free it from the main cover as in the pictures below.



HT-3600



PB-3600

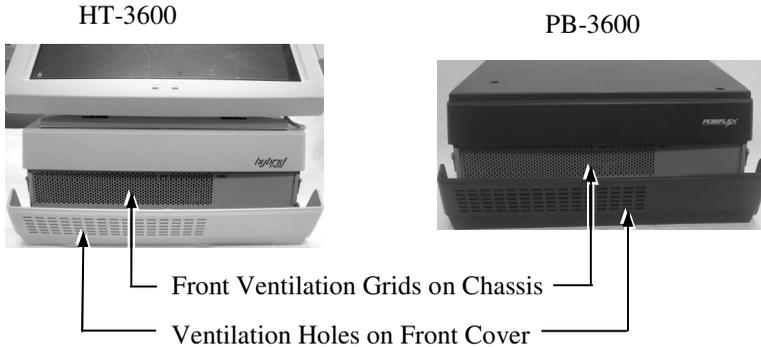
It may be required to push the power switch down to completely remove the front cover.



Power Switch

Cleaning for Front Ventilation

Use vacuum cleaner to remove any dust or threads accumulation away from both the ventilation holes on front cover and ventilation grids on chassis exposed after removal of the front cover.



Replacing Front Cover

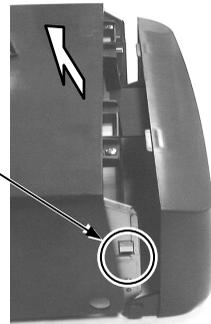
Follow the opposite procedure as removing the front cover to replace the front cover in position. Please make sure the all hooks on front cover is well positioned into chassis. Please remember to check that the power switch is at “Off” position before power and signal connection.

Accessing Side Ventilation Grids

The operation to further clean the side ventilation grids requires much more highly technical maneuver. Therefore careful attentions must be taken throughout the further cleaning operations below. When the main unit is opened, there must be no liquid spill, no electro-conductive material, no electric charged device come into the area of the main unit. Please also note that not to touch any component or cable inside.

Please first disconnect every cable from the main unit and for the HT-3600 turn the LCD panel to straight up position. Prepare enough space in front of the HT/PB-3600 system and lay a piece of clean soft clothes of appropriate size there to prevent damage. With the back cable cover opened, push in the circled spring button in the right picture on both sides of chassis and raise the rear edge of the top cover. Apply some mild

Push The Spring Buttons on Both Sides and Raise The Rear Part of Top Cover



maneuver if there is already a pole display mounted.

Cleaning for Side Ventilation

Use vacuum cleaner to remove any dust or threads accumulation away from outsides of both ventilation grids on chassis exposed after removal of the front cover as in pictures below and close back the top cover when done.



Side
Ventilation
Grids on
Chassis

