



Users Manual

POS-60 Series

*POS-6008B-470RH

*POS-6012B-470RH

*POS-6015B-470RH

Oct. 2006

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CHAPTER

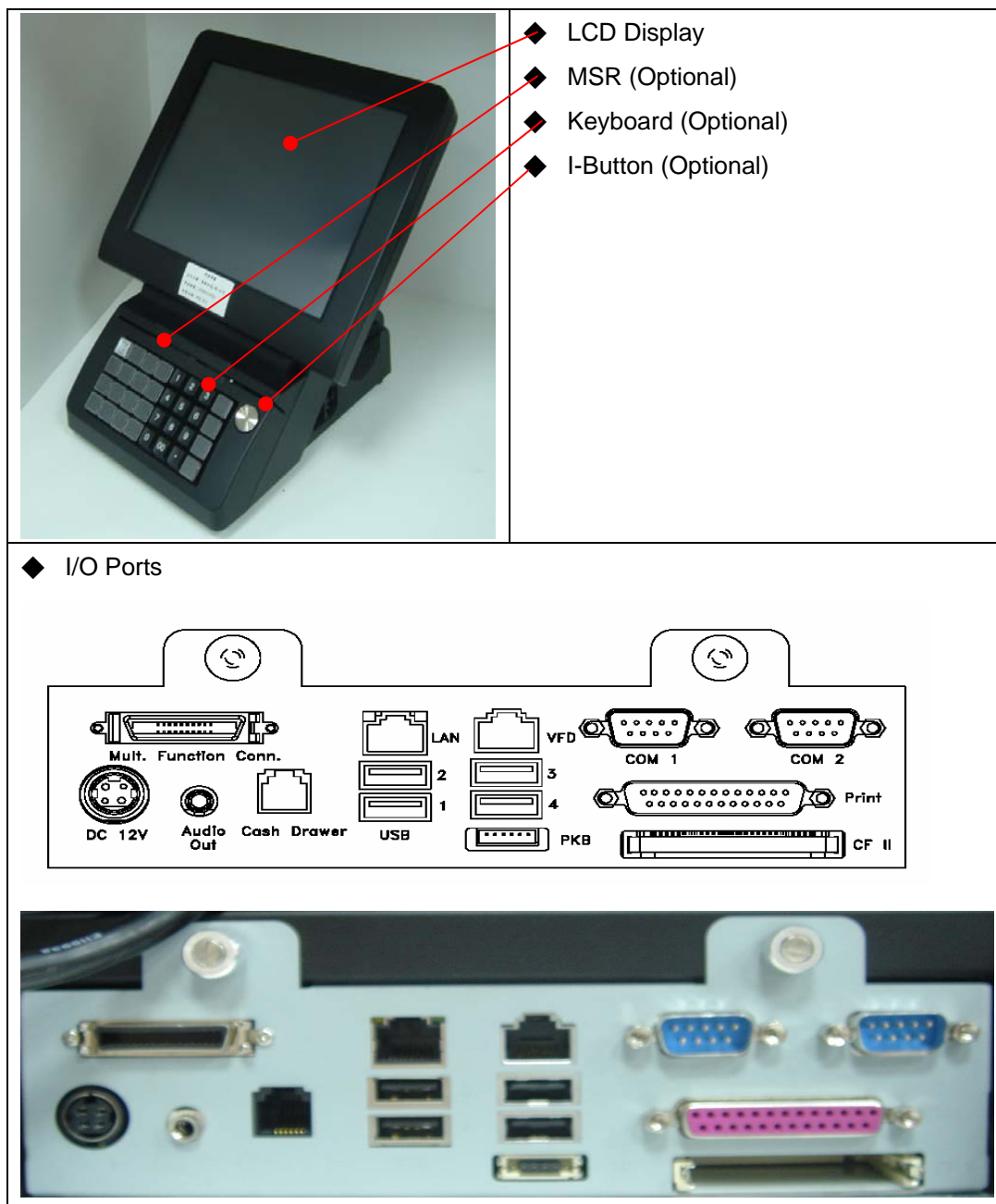
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Introduction

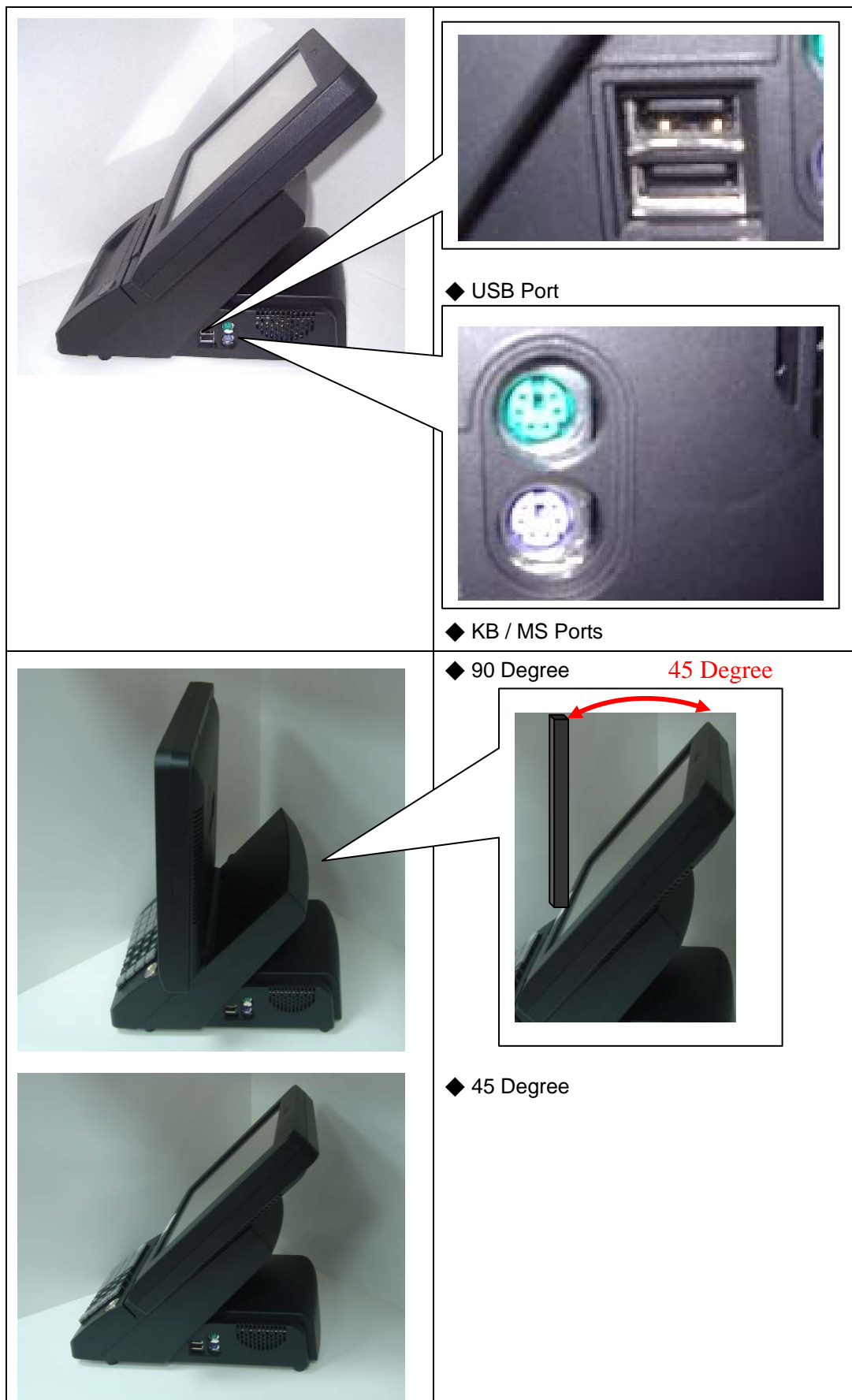
Chapter 1 : Introduction

1.1 System Overview

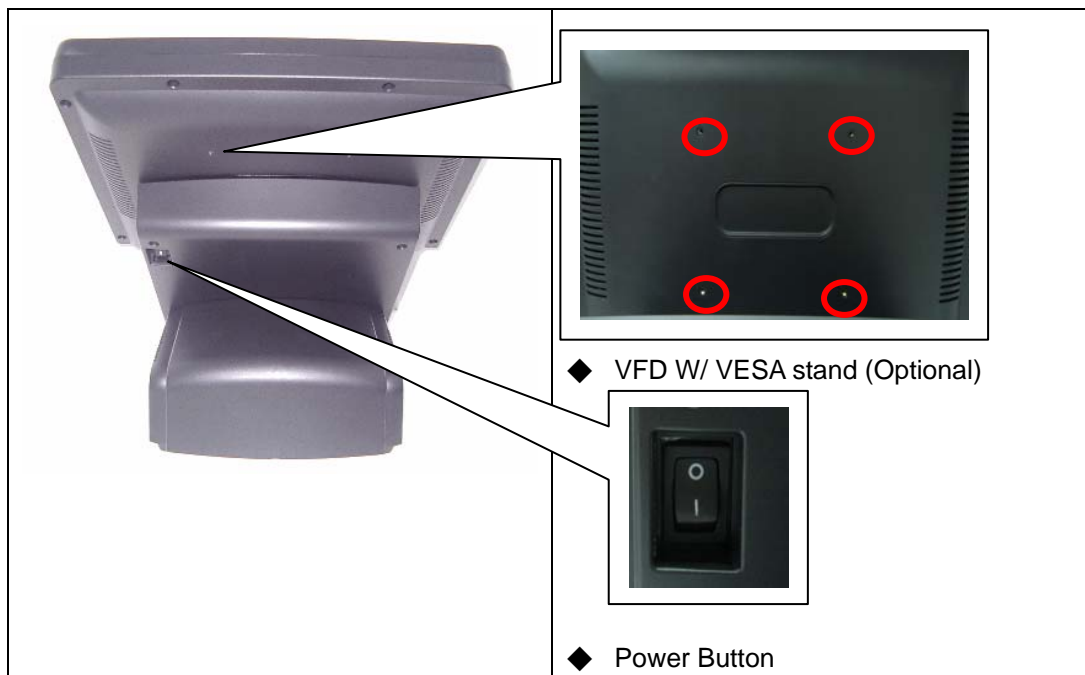
1.1.1 Front View



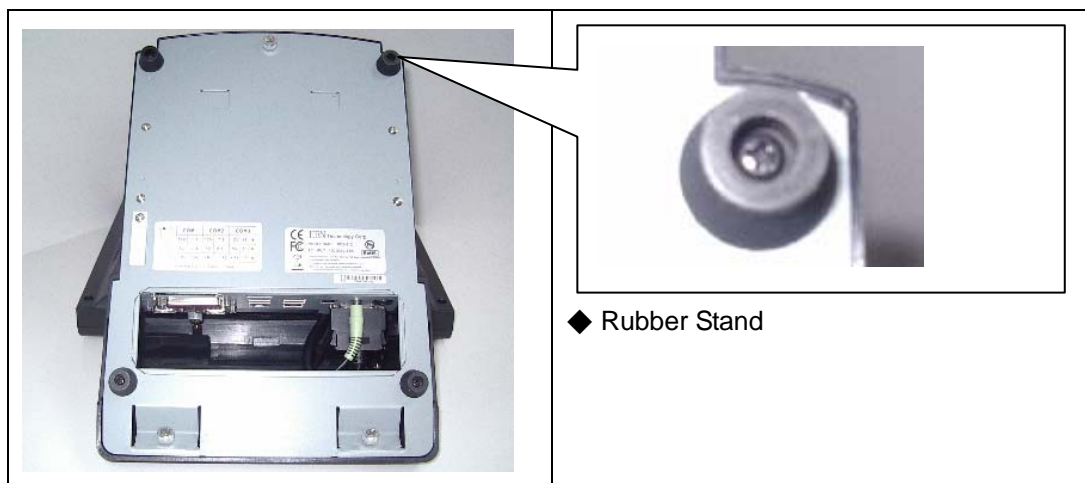
1.1.2 Side View



1.1.3 Rear View



1.1.4 Bottom View



1.2 Specifications

System			
Model	POS-6008B-470RH	POS-6012B-470RH	POS-6015B-470RH
Main Board			
CPU	INTEL Mobile Celeron 1.2GHz		
Core Logical	INTEL 852GM + ICH4		
System Memory	DDR266, up to 1GB		
OS Support	Win2000, Win XP / XPe, Linux, WEPOS, WinCE		
Display			
TFT LCD Size	8.4"	12.1"	15"
Brightness	180nits	200nits	250nits
Resolution	800x600	800x600	1024x768
Touch Screen	5 Wire Resistive Type		
Tilt Angle	45° to 90°		
Storage Device			
HDD	1 (IDE , 3.5" HD)		
Compact Flash	Type II, up to 1GB		
I/O Ports			
Serial	3x COM (2x RS232, 1x RJ45, selectable +5V or +12V)		
Parallel	1 ECP/EPP/SPP		
USB	6 (2x int., 4x available),USB v2.0		
PS2 Mouse	1		
PS2 Keyboard	1		
LAN	1 x RJ45, 10/100 Base-T		
Customer Display	1 (COM3 - RJ45)		
Cash Drawer	1 x RJ11, 12VDC		
Audio	AC97 2.0 Compliant, Speaker 2 x 2W		
Others			
Power Supply	External Adapter, 12VDC / 8.5A / 102W		
EMC & Safety Compliance	FCC / CE / WEEE / RoHS		
Weight (Kgs)	8		
Dimension (mm)	356 (W)x 290(L) x 340(H) mm		
Operating Temperature	5 ° ~ 40 ° C		
Storage Temperature	-20°C ~ 60°C		
Storage Humidity	20% - 85% RH non condensing		

Optional Accessories Ordering Information	
Part No.	Description
A10400037RH	MSR: 3 Tracks, COM, Keyboard Interface (A10400039RH W/ RS232 Interface)
A10400048RH	I-Button: Dallas Key Reader, PS/2 Type
A10400042RH	MSR (3 Tracks, Keyboard Interface) + I-Button (PS/2 Type)
20900001RH	OS: Win XP Professional (20900008RH: WinXP Home; 20900003RH:Win 2000 Professional; 20900002RH: WEPOS)
A10400135RH	Customer Display: RS232, VFD Type
A10400065RH	Programmable Keyboard: 32 keys PS/2 Type

Packing List


Chapter 2 : Packing List

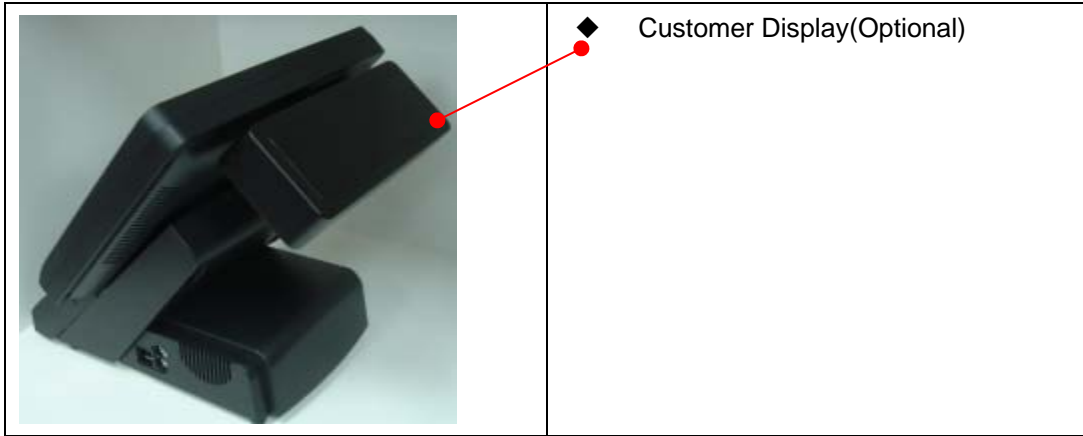
The unit comes securely packaged in a shipping carton. Please contact your dealer if you find that anything is missing or damaged after examining the contents. The shipping carton should contain the following items :

2.1 Standard Items

	
◆ Main Unit	◆ Power Adapter
	
◆ Power Cord	◆ Manual and Driver CD

2.2 Optional Items




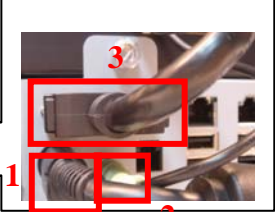


	<ul style="list-style-type: none">◆ MSR(Optional)◆ I-Button(Optional)◆ Keyboard(Optional)
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Getting Started


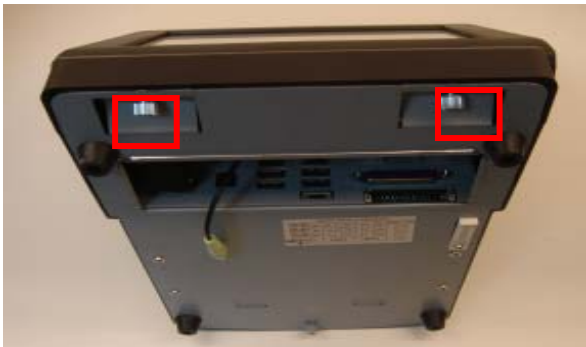



Chapter 3 : Getting Started


3.1 Computer Set Up

Item No.	Photo	Description
1		<ol style="list-style-type: none"> 1. Turn to the bottom side 2. Loosen 2 screws to remove plastic cover
2		<ol style="list-style-type: none"> 1. Remove the plastic Cover
3	 	<ol style="list-style-type: none"> 1. Plug in DC power cable 2. Ensure the audio out cable is well connected 3. Ensure the multi function connector is well connected 4. Repeat steps back to item No. 1
4	 	<ol style="list-style-type: none"> 1. Plug the power cord to the outlet 2. Push the power button


3.2 Hardware Installation



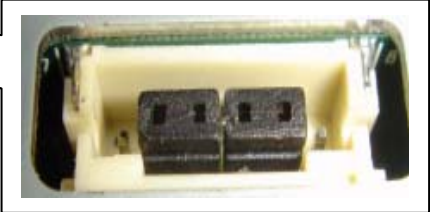

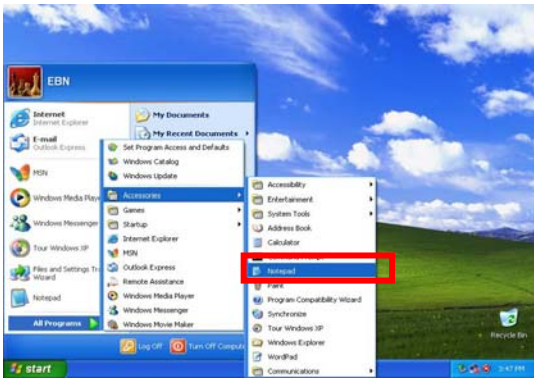
3.2.1 MSR

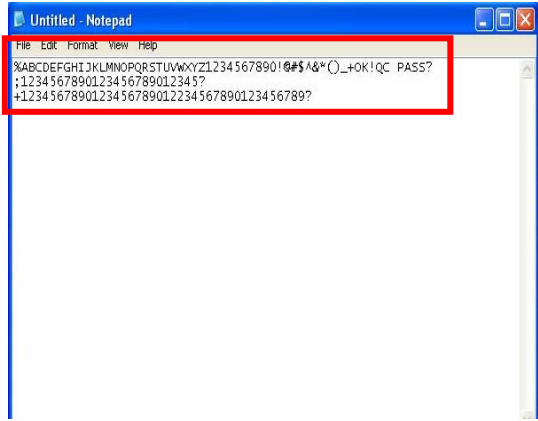



Keyboard Interface		
Item No.	Photo	Description
1		<ol style="list-style-type: none"> 1. Remove original plastic cover 2. Replace with the plastic cover with MSR module on main unit
2		<ol style="list-style-type: none"> 1. Fasten 2 screws at bottom side
3	 	<ol style="list-style-type: none"> 1. Turn the system to the bottom side 2. Remove 2 jumpers from connector
4		<ol style="list-style-type: none"> 1. Plug the key board cable to connector

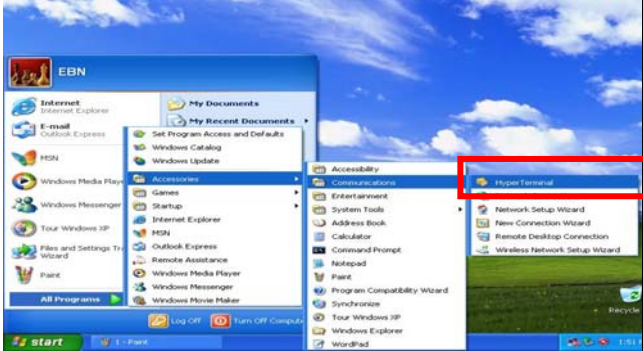

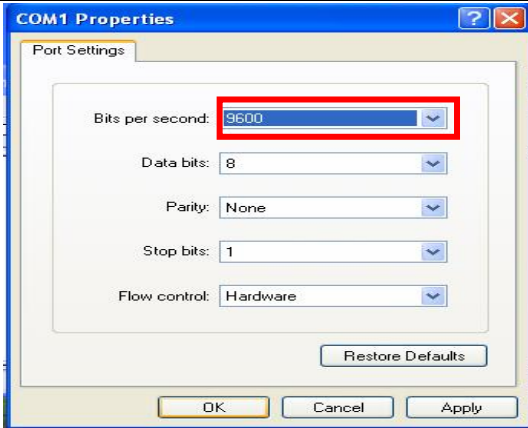
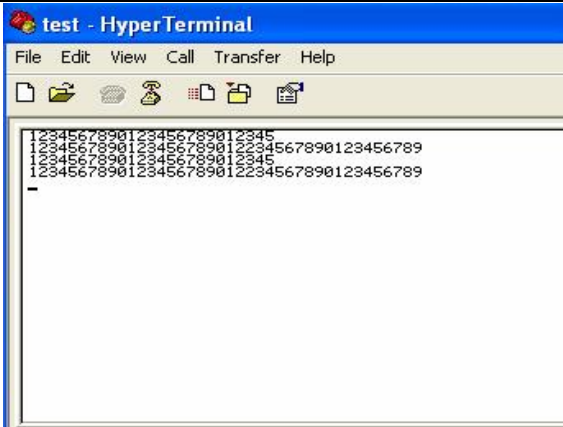
RS232 Interface		
Item No.	Photo	Description
1		<ol style="list-style-type: none"> 1. Loosen 2 screws at bottom side on main unit 2. Remove plastic cover 3. Plug the MSR cable to I/O port
2		<ol style="list-style-type: none"> 1. Put the plastic cover on the main unit
3		<ol style="list-style-type: none"> 1. Fasten 2 screws at bottom side

3.2.2 I-Button



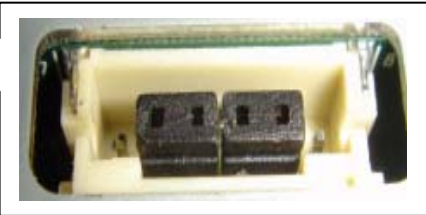

Keyboard Interface		
Item No.	Photo	Description
1		<ol style="list-style-type: none"> 1. Loosen 2 screws at bottom side of main unit 2. Remove plastic cover on main unit 3. Replace with the plastic cover with I-Button module on main unit

Item No.	Photo	Description
2		1. Fasten 2 screws at bottom side
3	 	1. Turn the system to the bottom side 2. Remove 2 jumpers from connector
4		1. Plug the key board cable to connector
Verification		
Item No.	Photo	Description
5		1. Go to start → Accessories → Notepad

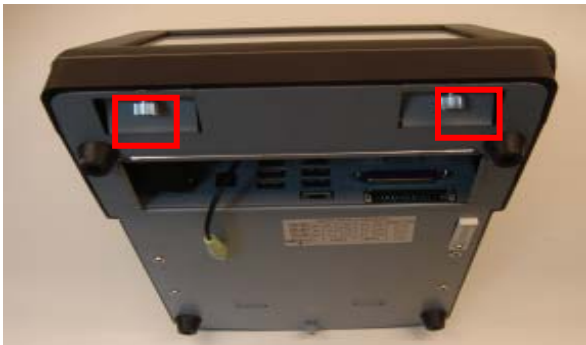
Item No.	Photo	Description
6		<ol style="list-style-type: none"> 1. Put the dallas key on I-Button 2. The verify result will show on the screen
RS232 Interface		
Item No.	Photo	Description
1		<ol style="list-style-type: none"> 1. Loosen 2 screws at bottom side on main unit 2. Remove plastic cover 3. Plug the MSR cable to I/O port
2		<ol style="list-style-type: none"> 1. Put the plastic cover on the main unit
3		<ol style="list-style-type: none"> 1. Fasten 2 screws at bottom side

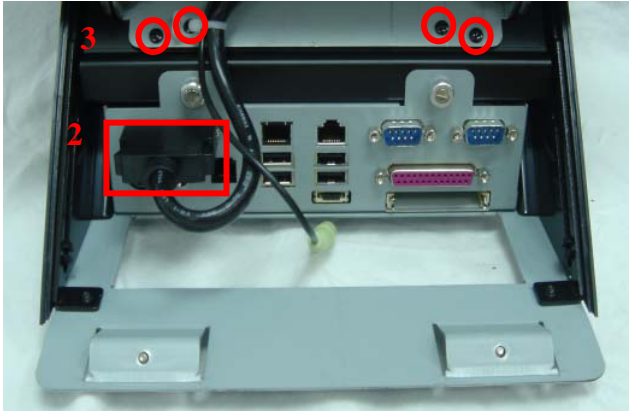



Verification		
Item No.	Photo	Description
4		1. Go to " All Programs" → "Communication" → "Hyper Terminal"
5		1. Select COM 1 or COM 2 based on the COM that is plugged
6		1. Set Bite per second "9600" bps
7		1. Test result will show on the screen

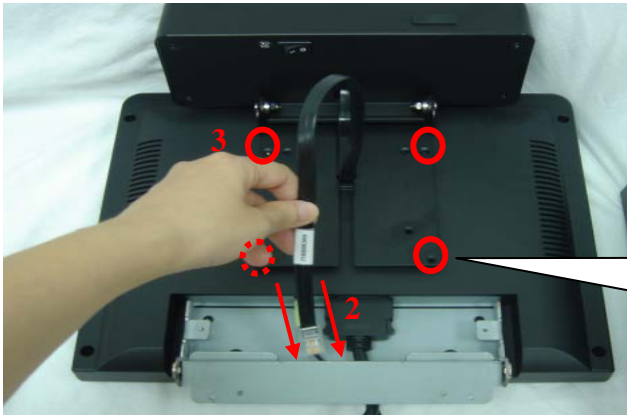

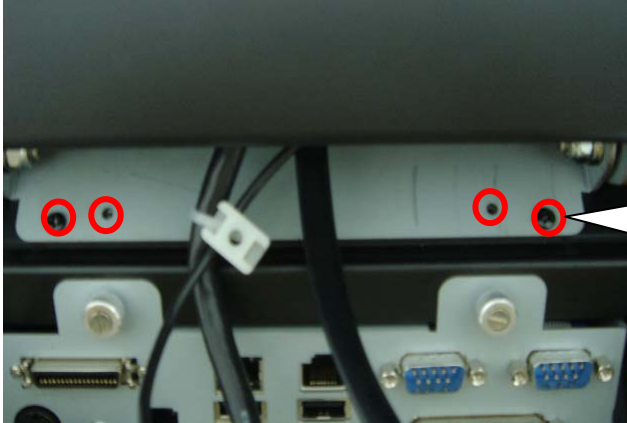
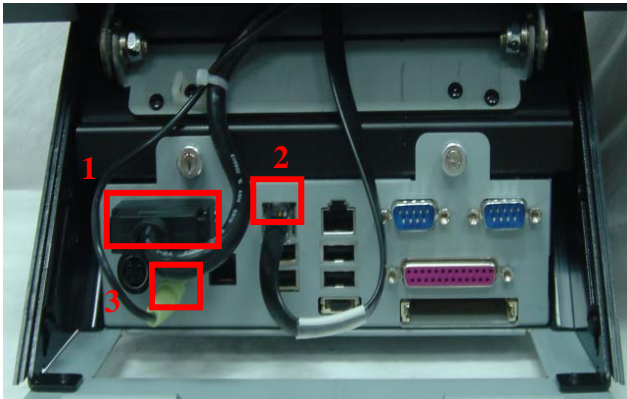
3.2.3 Keyboard


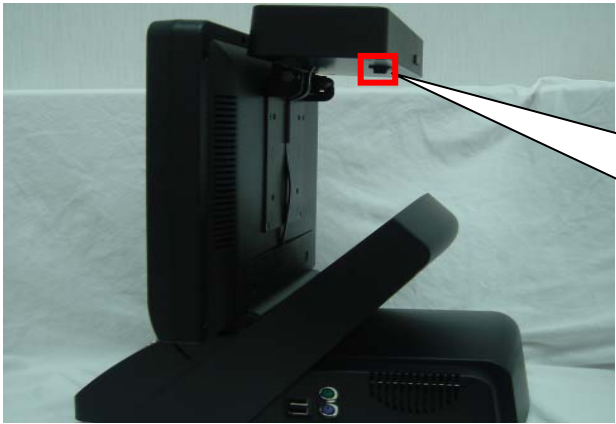

Item No.	Photo	Description
1		<ol style="list-style-type: none"> 1. Follow 3.2.1 item 1 to 2 2. Replace with the plastic cover with key board module 3. Fasten 2 screws at bottom side
2	 	<ol style="list-style-type: none"> 1. Turn the system to the bottom side 2. Remove 2 jumpers from connector
3		<ol style="list-style-type: none"> 1. Plug the key board cable to connector

3.2.4 Customer Display

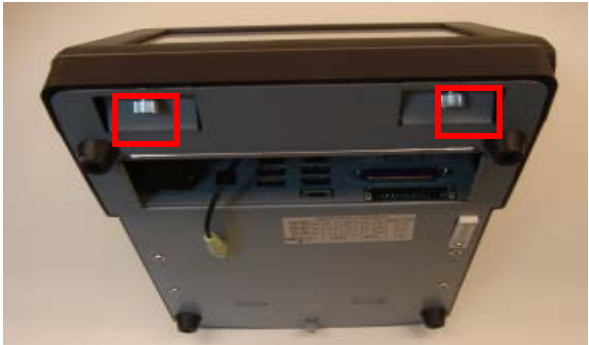

Item No.	Photo	Description
1		<ol style="list-style-type: none"> 1. Loosen 2 screws at bottom side

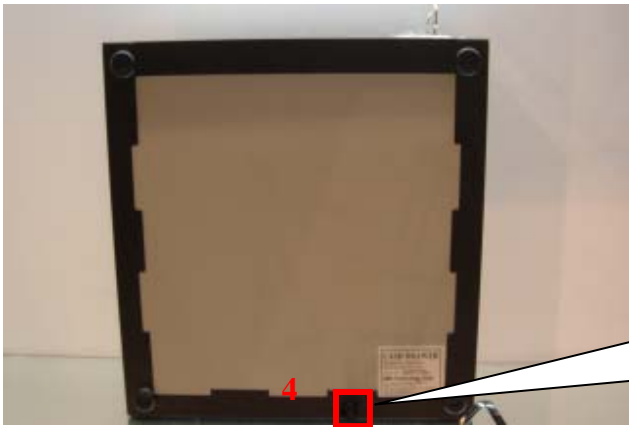
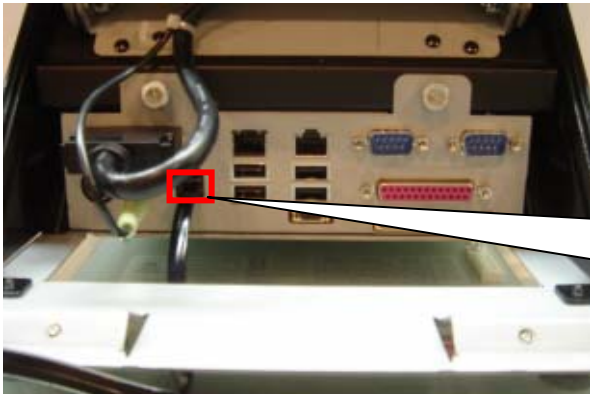

Item No.	Photo	Description
2	 <p>The photo shows the internal components of the device chassis. A multi-function cable is connected to the rear panel. Four screws at the hinge location are circled in red. A red box highlights the multi-function cable connector.</p>	<ol style="list-style-type: none"> 1. Open plastic cover 2. Pull out the multi function cable 3. Remove 4 screws at the hinge location
3	 <p>The photo shows the device chassis with the rear panel removed, revealing the internal components.</p>	<ol style="list-style-type: none"> 1. Separate panel and base unit
4	 <p>The photo shows the rear side of the panel. Two screws are circled in red.</p>	<ol style="list-style-type: none"> 1. Remove 2 screws from rear side of panel
5	 <p>The photo shows the rear panel being removed from the base unit. A hand is visible holding the panel.</p>	<ol style="list-style-type: none"> 1. Remove the plastic cover from rear panel

Item No.	Photo	Description
6		<ol style="list-style-type: none"> 1. Put the customer display at rear side of panel 2. Have lan cable go underneath the chassis 3. Fasten 4 screws to connect customer display and panel
7		<ol style="list-style-type: none"> 1. Put the plastic cover on the panel 2. Fasten 2 screws
8		<ol style="list-style-type: none"> 1. Assemble panel and base unit 2. Fasten 4 screws to tighten the connection
9		<ol style="list-style-type: none"> 1. Connect the multi function cable 2. Connect the lan cable 3. Connect the audio out cable

Item No.	Photo	Description
10		<ol style="list-style-type: none"> 1. Put the plastic cover on main unit 2. Fasten 2 screws at bottom side
11	 	<ol style="list-style-type: none"> 1. Power button for customer display

3.2.5 Cash Drawer


Item No.	Photo	Description
1		<ol style="list-style-type: none"> 2. Loosen 2 screws at bottom side
2		<ol style="list-style-type: none"> 1. Remove the plastic cover



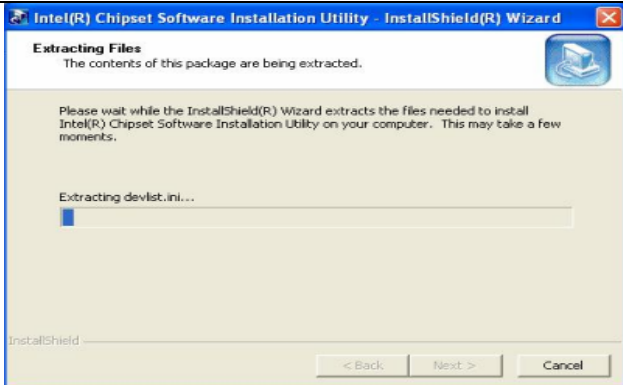
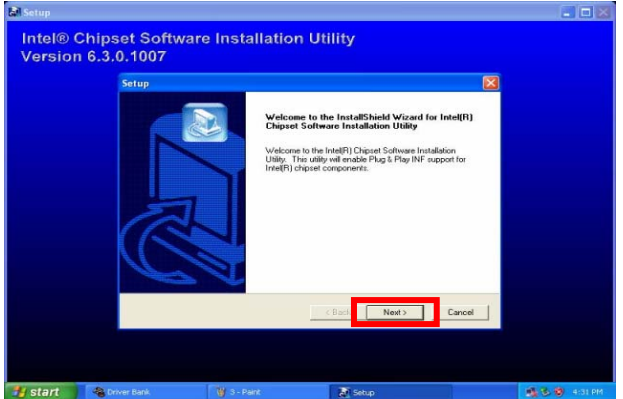
Item No.	Photo	Description
3		<ol style="list-style-type: none"> 1. Take out the cash drawer 2. Plug in the key to open cash drawer 3. Take out cable from cash drawer 4. Plug in the cable
4		<ol style="list-style-type: none"> 1. Plug in the cable to main unit (Cash Drawer) 2. Put back the plastic cover 3. Tighten 2 screws at bottom side
5		<ol style="list-style-type: none"> 1. Turn on the power and set the address to 280

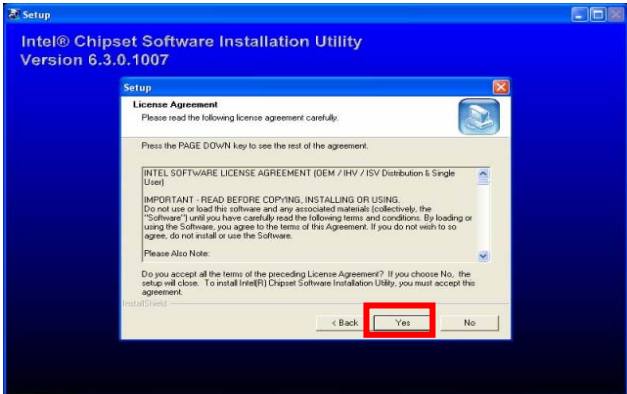
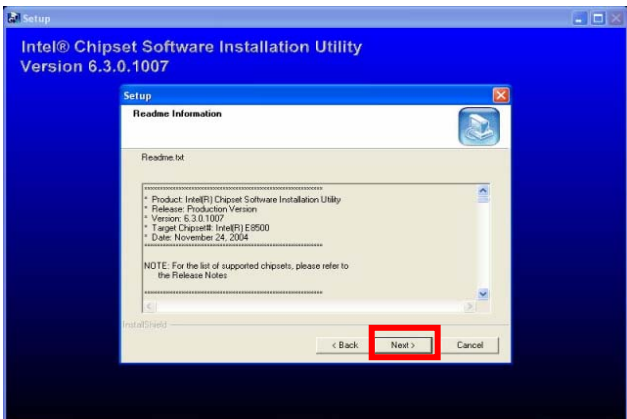
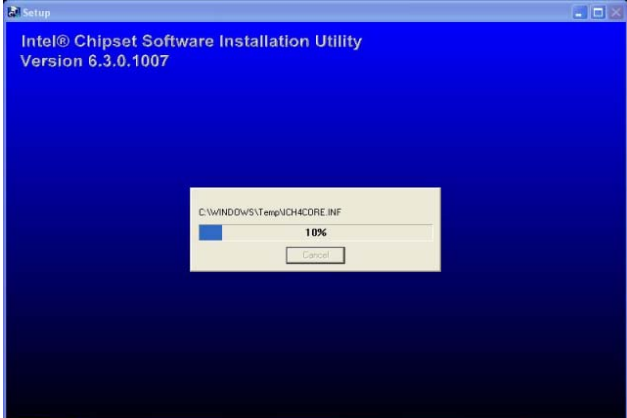
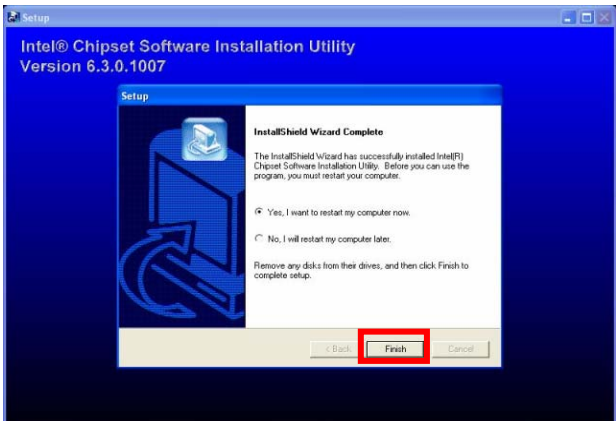
3.3 Software Installation

3.3.1 Standard Items





3.3.1.1 Intel Chipset Driver Installation


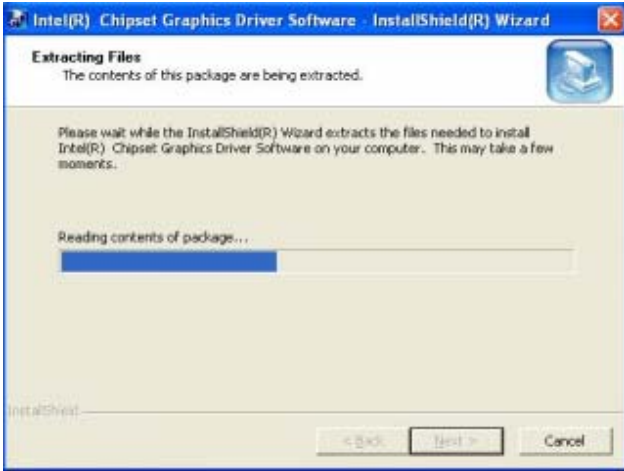

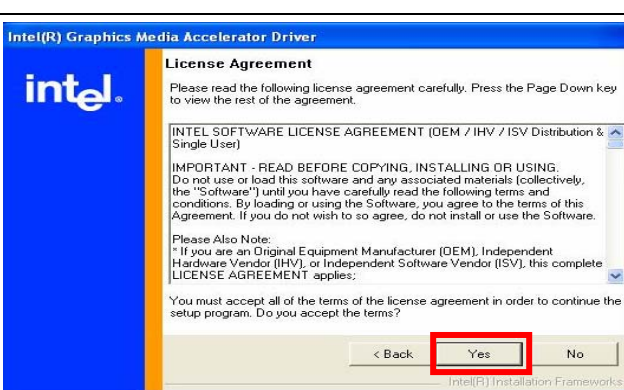
Item No.	Photo	Description
1		<ol style="list-style-type: none"> 1. Insert User Manual and Driver Bank CD 2. Choose POS 6 Series



Item No.	Photo	Description
2		1. Choose POS6 P4 Series
3		1. Choose Intel Chipset Driver
4		1. start to download
5		1. Click "Next"

Item No.	Photo	Description
6		1. Click "Yes"
7		1. Click "Next"
8		1. Start to download
9		1. Click "Finish"

3.3.1.2 Graphics Driver Installation


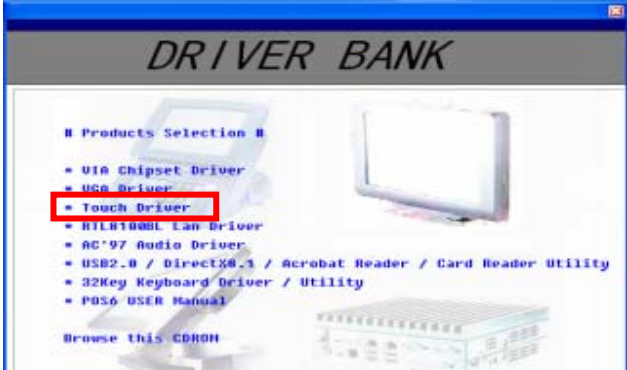
Item No.	Photo	Description
1		3. Insert User Manual and Driver Bank CD Choose POS 6 Series
2		1. Choose POS6 P4 Series
3		1. Choose "Graphics Driver"
4		1. Choose "VGA Driver" based on the OS installed


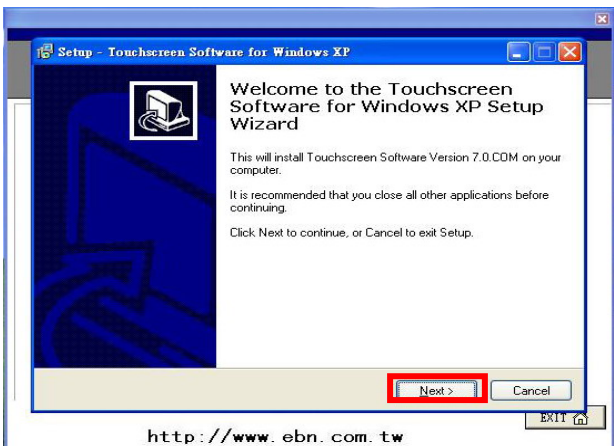
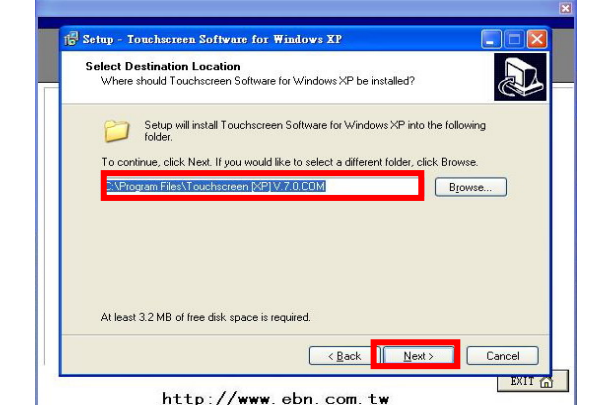
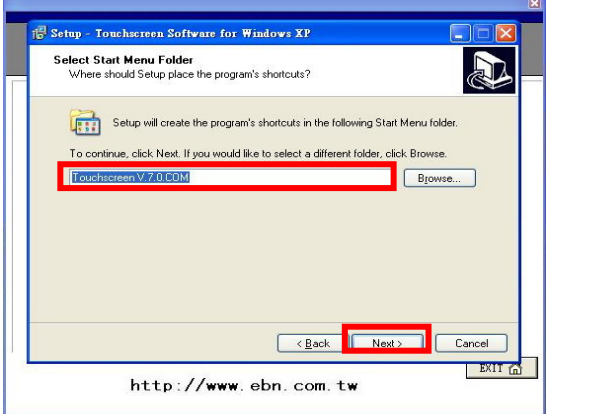
Item No.	Photo	Description
5		1. Click "Next"
6		1. Start to download
7		1. Click "Next"
8		1. Click "Yes"

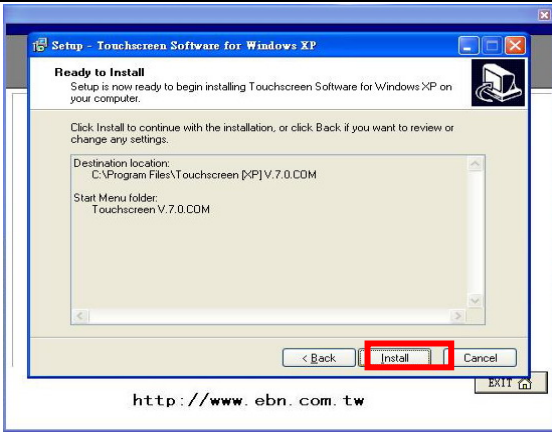
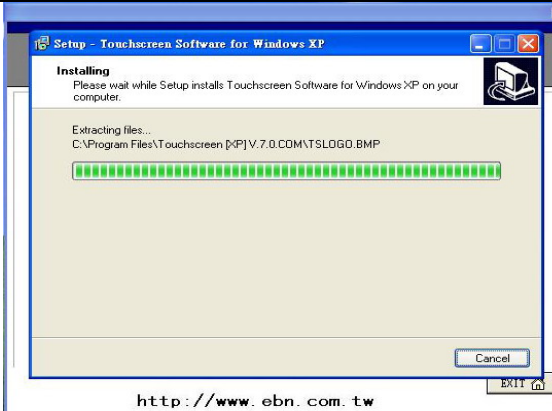

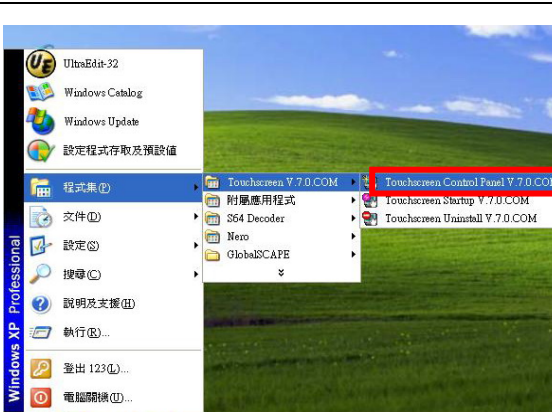
Item No.	Photo	Description
9		1. Start to download
10		1. Click "Finish"


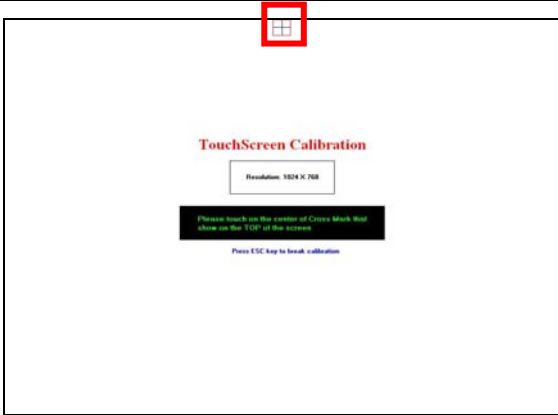
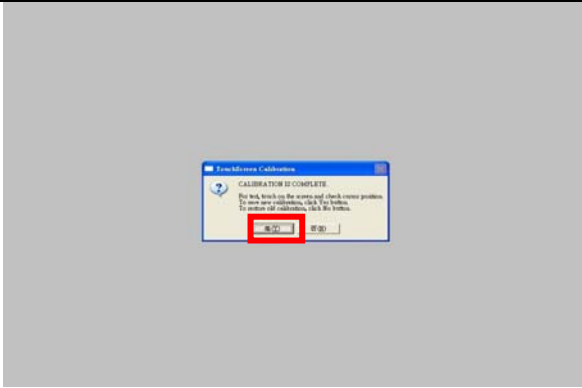

3.3.1.3 Touch Driver Installation


Here we'd like to list procedure of touch driver as followings, which is based on Win XP as example.

Item No.	Photo	Description
1		1. Insert the driver CD to CD ROM 1. Choose POS 60 Series
2		1. Choose "Touch Driver"




Item No.	Photo	Description
3		1. Choose "Touch Panel Driver For WINXP"
4	 <p>http://www.ebn.com.tw</p>	1. Click "Next"
5	 <p>http://www.ebn.com.tw</p>	1. Choose the software install location in your computer 2. Click Next
6	 <p>http://www.ebn.com.tw</p>	1. Choose "Touchscreen V 7.0 COM" 2. "Click "Next"

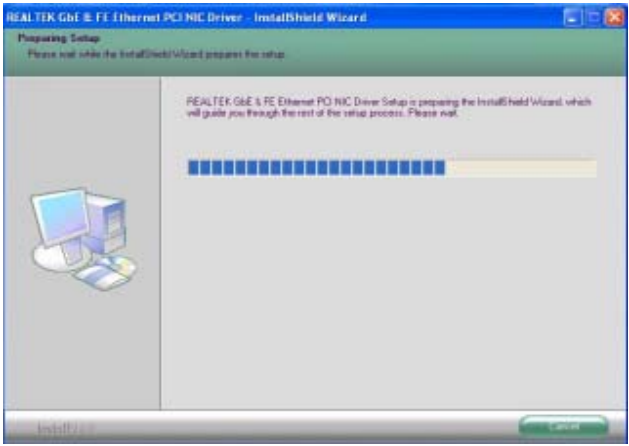
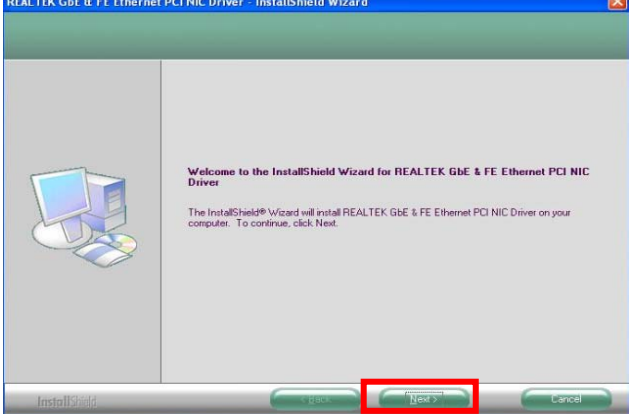
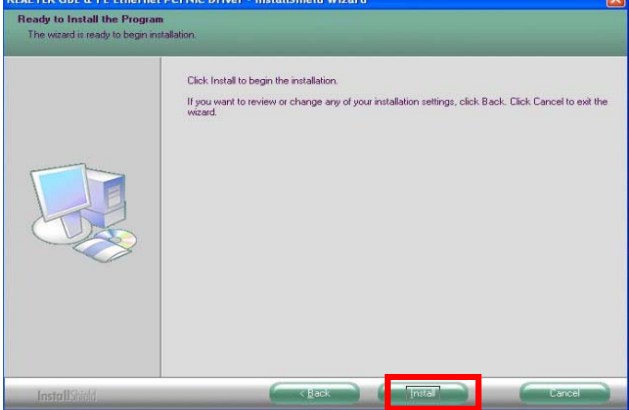
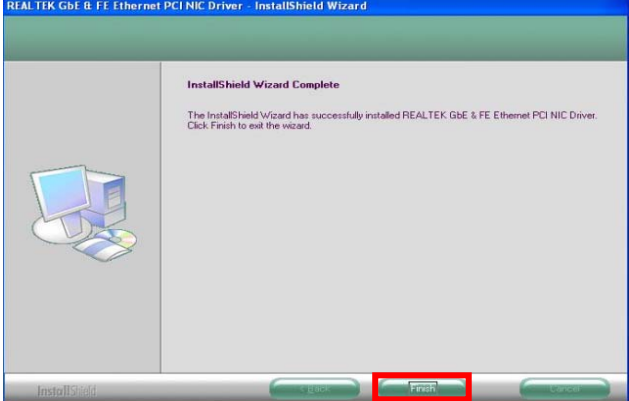
Item No.	Photo	Description
7	 <p>http://www.ebn.com.tw</p>	1. Click "Install"
8	 <p>http://www.ebn.com.tw</p>	1. Wait for the installation process
9	 <p>http://www.ebn.com.tw</p>	1. Click "Yes"
10		1. After you restart the computer, go to Program→ Touchscreen V7.0.COM→ "Touch Control Panel V.7.0 COM"

Item No.	Photo	Description
11		1. Click "Calibration"
12		1. Follow the cross mark shown on the screen to calibrate
13		1. After the calibration process is completed, click "Yes"
14		1. Click "Feedback Sound"




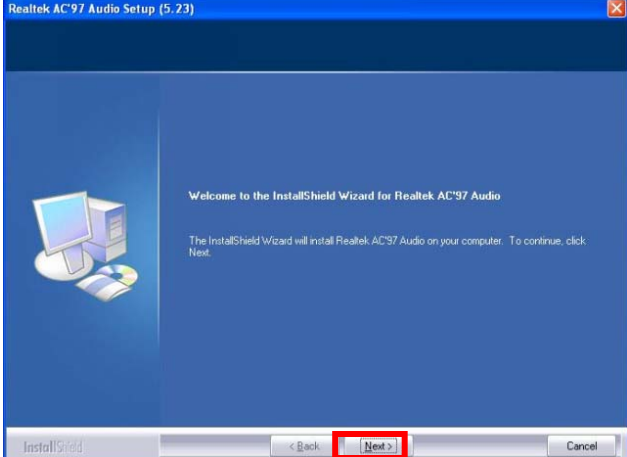
Item No.	Photo	Description
15		<ol style="list-style-type: none"> 1. Choose "Touch Down Only" 2. Suggested Tone for "1000" 3. Suggested Duration for "50" <p>Click "OK"</p>

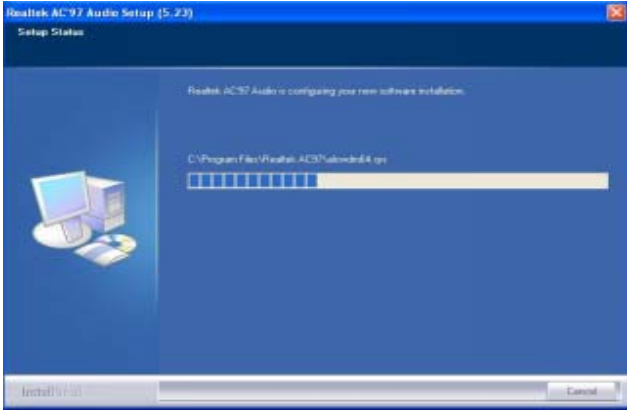
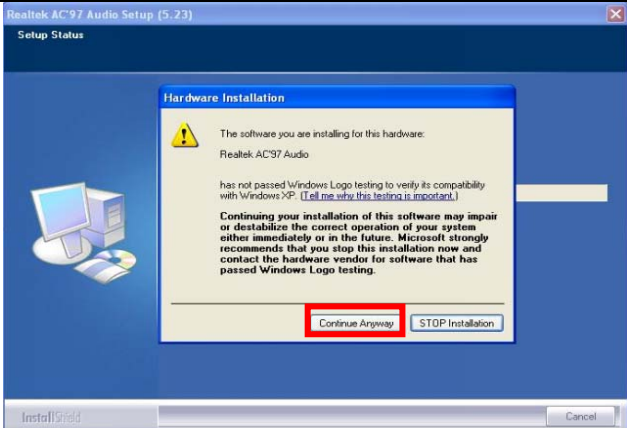
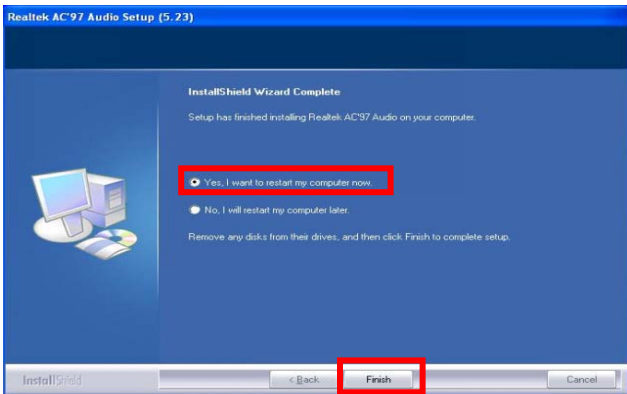
3.3.1.4 Lan Driver Installation

Item No.	Photo	Description
1		<ol style="list-style-type: none"> 1. Insert the driver CD to CD ROM 2. Choose POS 60 Series
2		<ol style="list-style-type: none"> 1. Choose POS6 P4 Series
3		<ol style="list-style-type: none"> 1. Choose "RTL8100BL Lan Driver"

Item No.	Photo	Description
4		1. Start to download
5		1. Click "Next"
6		1. Click "Install"
7		1. Click "Finish"

3.3.1.5 Audio Driver Installation



Item No.	Photo	Description
1		<ol style="list-style-type: none"> 1. Insert the driver CD to CD ROM 2. Choose POS 60 Series
2		<ol style="list-style-type: none"> 1. Choose POS6 P4 Series
3		<ol style="list-style-type: none"> 1. Choose "AC '97 Audio Driver"
4		<ol style="list-style-type: none"> 1. Click "Next"

Item No.	Photo	Description
5		1. Start to download
6		1. Click "Continue Anyway"
7		1. Click "Yes, I want to restart my computer now" 2. Click "Finish"

3.3.2 Optional Items

3.3.2.1 OS Driver Installation

3.3.2.1.1 Preparation

 	<ul style="list-style-type: none">◆ Please prepare 1 set external USB CDROM, 1 set keyboard(USB or PS/2 Type), 1 set USB mouse◆ Connect CDROM/ keyboard / mouse to the USB port of right side of system.◆ Turn on the system and enter to CMOS Set Up.◆ Check and change “the Boot Device” to USB CDROM.◆ Enter to boot on procedure.◆ Install OS and Driver step by step.
--	---

3.3.2.1.2 Embedded WEPOS

If you bought the system including WEPOS operation system, please follow below procedure.

- a. Connect CDROM to the USB port of system.
- b. Turn on the system and enter completely into WEPOS.
- c. Upload your application software into WEPOS platform.
- d. Complete installation and execute the AP.

Note: We suggest that you buy and use recommend CD-ROM with USB interface while you are placed first sample unit.

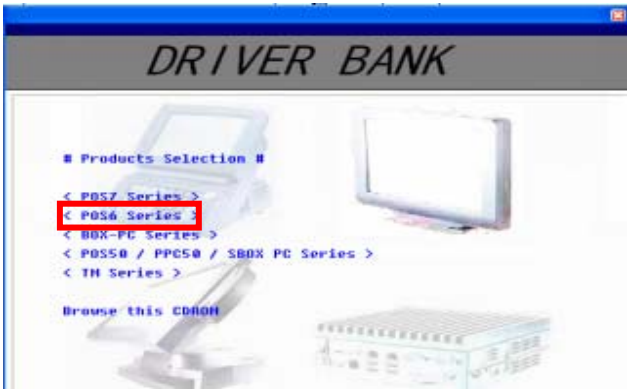


3.3.2.1.3 Win XP




If you would like to install the Win XP, we suggest the system's configuration include 256MB RAM(or above) and HDD.

3.3.2.2 MSR Utility Installation

If you like to change the MSR configuration, please execute following MSR utility.

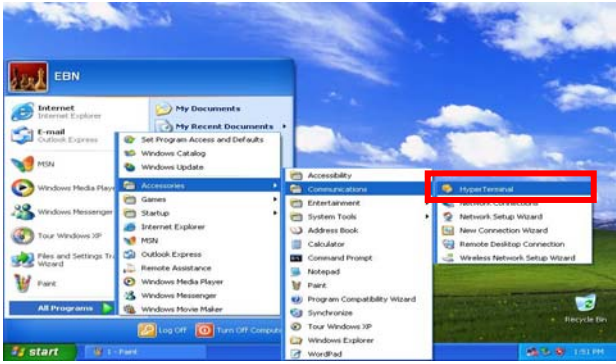
- a. Prepare 1 set USB CDROM.
- b. Connect CDROM to the USB port of system.
- c. Turn on the system and enter to CMOS Set Up.
- d. Check and change "the Boot Device" to USB CDROM.
- e. Enter to boot on procedure.

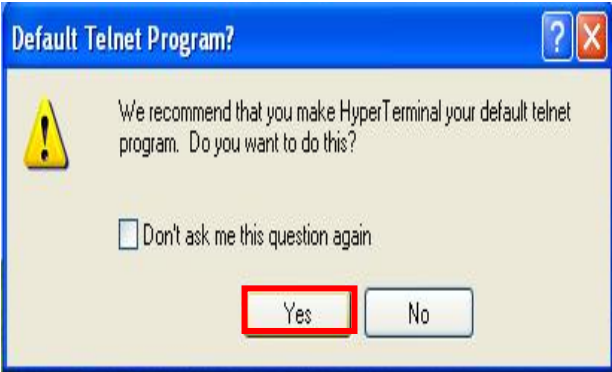
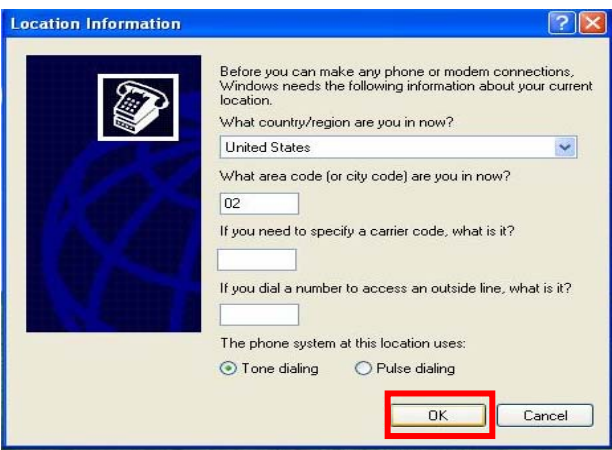
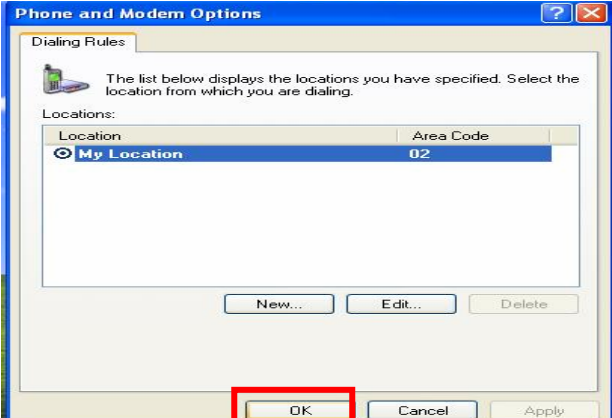

Item No.	Photo	Description
1		1. Choose POS6 Series
2		1. Choose "Card Reader Utility"
3		1. Choose "Card Reader Utility For Windows"


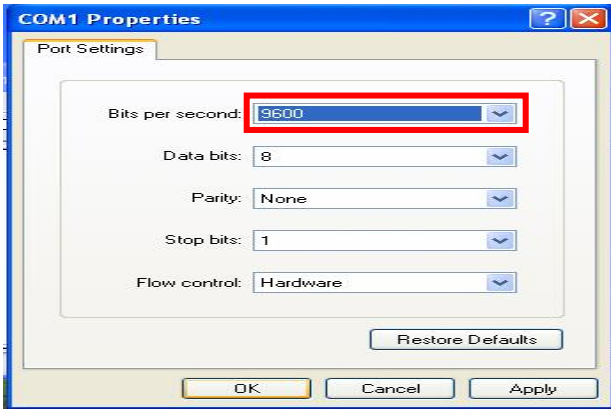
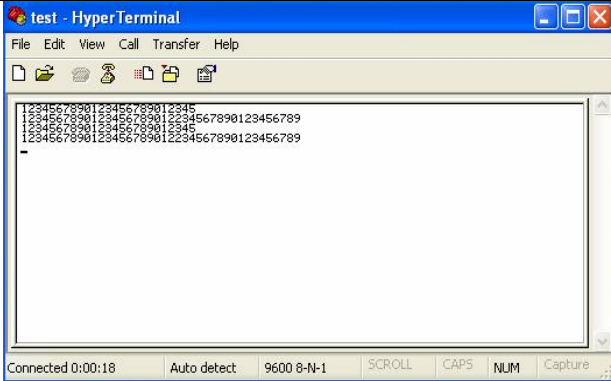
Item No.	Photo	Description
4		1. Choose "Next"
5		1. Choose "Next"
6		1. The utility will create the S64 icon as following picture.

MSR Verification

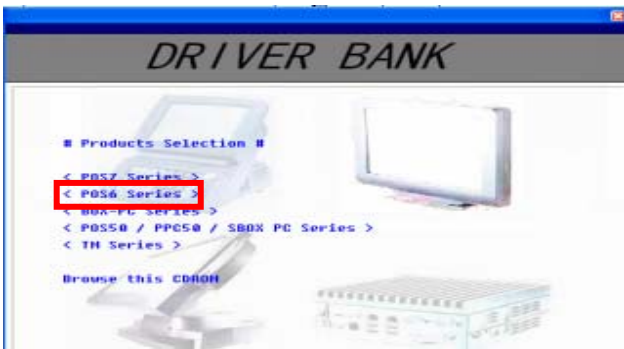
Verify the Card Reader through by Hyper Terminal of XP Win.


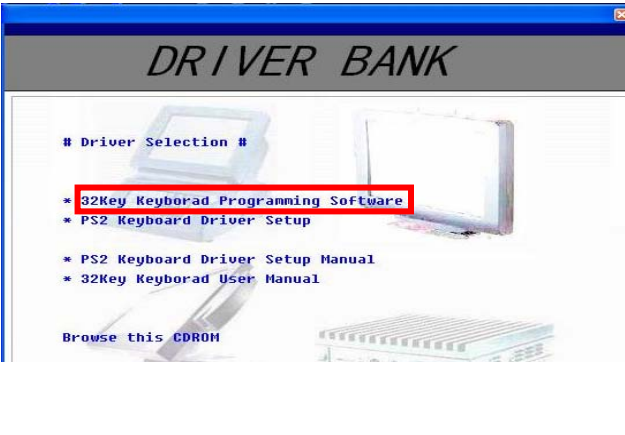
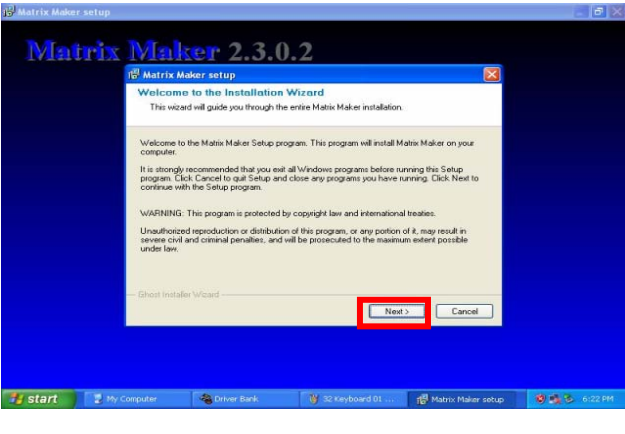
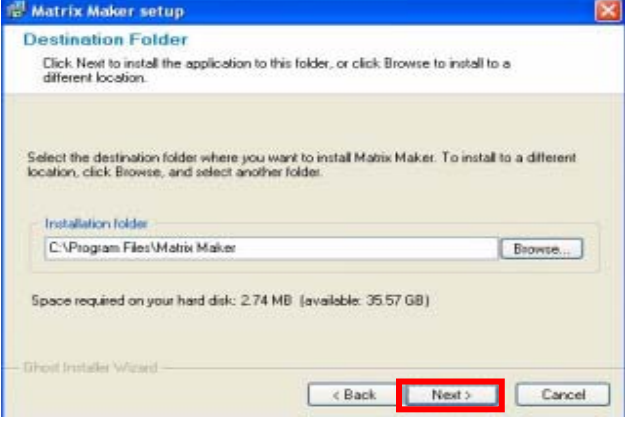
Item No.	Photo	Description
7		1. Enter to "All Programs" → "Communication" → "Hyper Terminal"

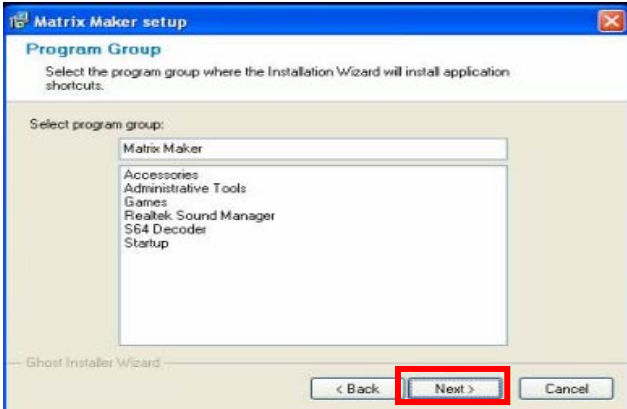
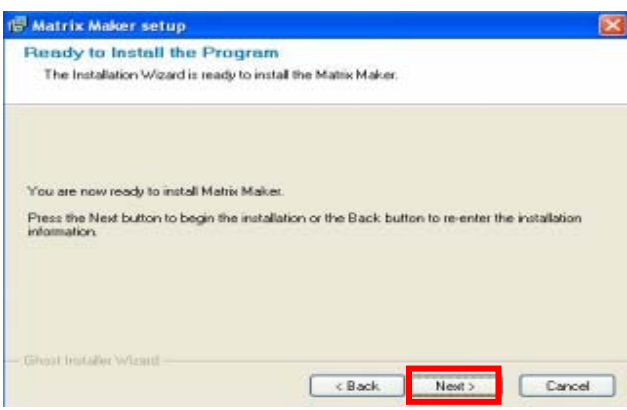

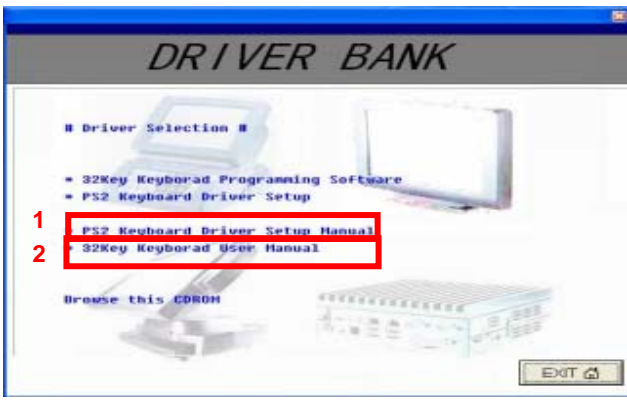
Item No.	Photo	Description
8		1. Click "Yes" to continue
9		1. Set "area code" and click OK
10		1. Click OK
11		1. Enter a name and Click OK

Item No.	Photo	Description
12		<ol style="list-style-type: none"> 1. Select on using COM1 port. 2. Click "OK"
13		<ol style="list-style-type: none"> 1. Set Bits per second to be 9600 bps.
14		<ol style="list-style-type: none"> 1. Test OK

3.3.2.3 32 Keyboard Programming Software and Driver Installation

Software Installation		
Item No.	Photo	Description
1		<ol style="list-style-type: none"> 1. Choose "POS6 Series"

Item No.	Photo	Description
2		1. Choose "32Key Keyboard Driver/Utility"
3		1. Choose "32Key Keyboard Programming Software"
4		1. Click "Next"
5		1. Click "Next"

Item No.	Photo	Description
6	 <p>The screenshot shows the 'Matrix Maker setup' window with the 'Program Group' tab selected. It prompts the user to 'Select the program group where the Installation Wizard will install application shortcuts.' A list of program groups is shown, with 'Matrix Maker' selected. At the bottom, the 'Next >' button is highlighted with a red rectangle.</p>	1. Click "Next"
7	 <p>The screenshot shows the 'Matrix Maker setup' window with the 'Ready to Install the Program' tab selected. It states 'The Installation Wizard is ready to install the Matrix Maker.' and 'You are now ready to install Matrix Maker.' At the bottom, the 'Next >' button is highlighted with a red rectangle.</p>	1. Click "Next"
8	 <p>The screenshot shows the 'Matrix Maker setup' window with the 'Installation Complete' tab selected. It states 'The Installation Wizard has successfully installed Matrix Maker.' and 'Matrix Maker has been successfully installed. Press the Finish button to exit Setup program.' At the bottom right, the 'Finish' button is highlighted with a red rectangle.</p>	1. Click "Finish"
Driver Installation		
9	 <p>The screenshot shows the 'DRIVER BANK' window with the 'Driver Selection' tab selected. It lists two items: '32Key Keyboard Programming Software' and 'PS2 Keyboard Driver Setup'. Below these, two manuals are listed: 'PS2 Keyboard Driver Setup Manual' and '32Key Keyboard User Manual'. Both manual titles are highlighted with a red rectangle. At the bottom right, there is an 'EXIT' button.</p>	1. Open "PS2 Keyboard Driver Setup Manual" for Driver set up process 2. Open "32Key Keyboard User Manual" for function set up process

BIOS Setup

4.1 Starting Setup

The BIOS is immediately active when you turn on the computer. While the BIOS is in control, the Setup program can be activated in one of two ways:

By pressing immediately after switching the system on, or

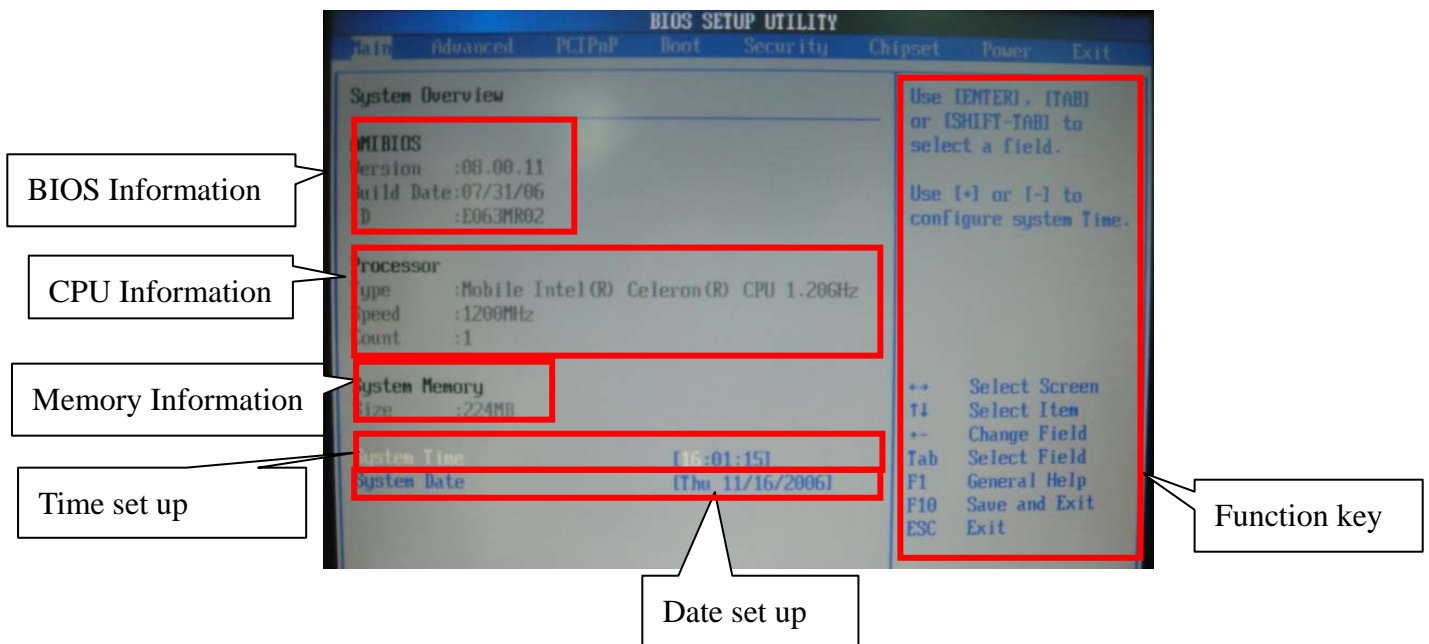
By pressing the key when the following message appears at the bottom of the screen during POST (Power On Self-Test):

DEL: Setup F11: Boot Menu F12: Network boot

If the message disappears before you respond and you still wish to enter Setup, restart the system to try again by turning it OFF then ON or pressing the "RESET" button on the system case. You may also restart by simultaneously pressing <Ctrl>, <Alt>, and <Delete> keys. If you do not press the keys at the correct time and the system does not boot, an error message will be displayed and you will again be asked to...

Press F1 to Run SETUP

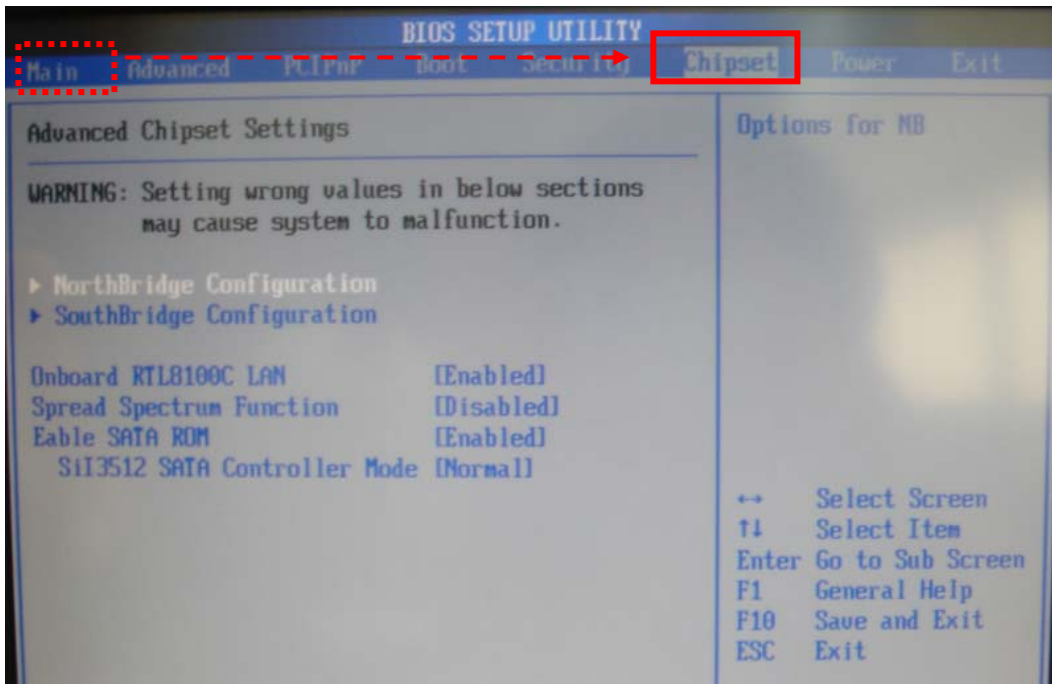
Press F2 to load default values and continue



4.2 Resolution setup

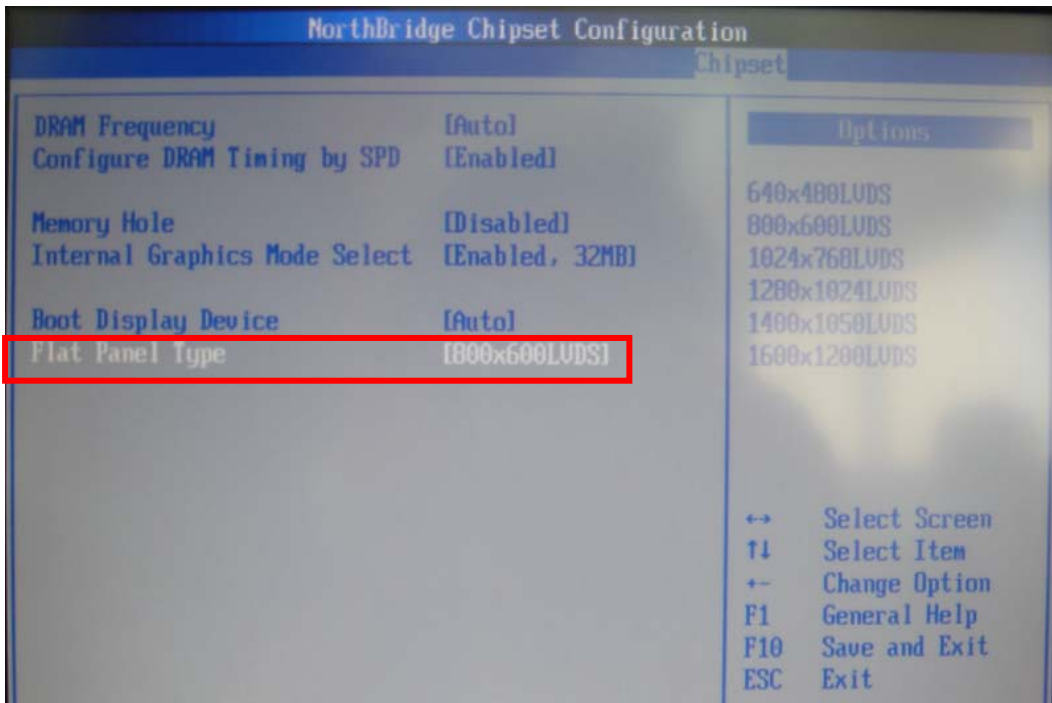
4.2.1 Follow 4.1 to BIOS main screen

Press “.”→” 5 times to “Chipset” screen



4.2.2 Press “.”↓” to “Flat Panel Type”

Press “Enter” to change the resolution



4.2.3 Default resolution for POS 60xxB-470RH

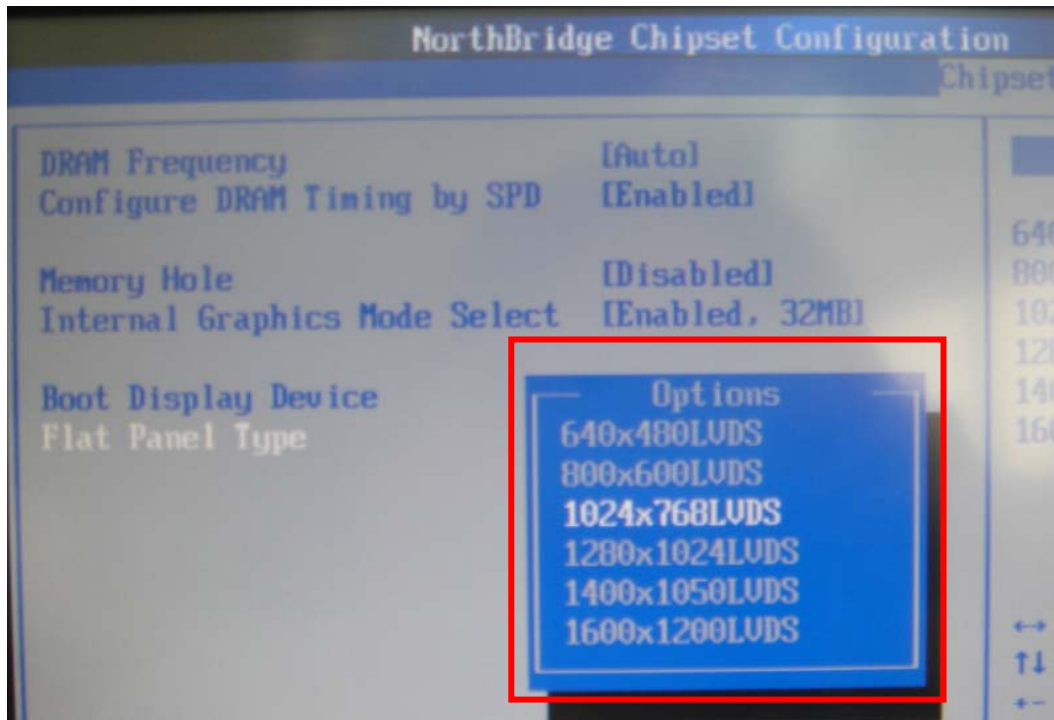
A: 8": 800X600

B: 12.1": 800X600

C: 15": 1024X768

Click "Enter" after the required resolution is selected

Click "F10" to save data



Jumper Setting

Chapter 5 : Jumper Setting

I-Button	P. Keyboard	MSR	JP1	JP2	JP3	JP4	JP5	P.KB JP1, JP2
KB	X	X	X	3-4, 9-10	1-2, 5-6	OFF	OFF	
RS232	X	X	1-8	1-2, 7-8	OFF	ON	OFF	
KB	P. Keyboard	X	X	3-4, 9-10	1-2, 5-6	OFF	OFF	OFF
KB	P. Keyboard	KB	X	5-6, 11-12	1-2, 5-6	OFF	OFF	OFF

- JP1: Setting CPU Type

JP1	DESCRIPTION
1-2	P4/ Celeron 2.0G
2-3	Mobile Celeron 1.2G

- JP2: Power-in Type Selection

JP2	DESCRIPTION
1-2,3-4,5-6,7-8,9-10,11-12, 13-14,15-16,17-18,19-20	12V Jack-In
Open	ATX- Power

- JP4:COM3 Jumper Selection

JP4	DESCRIPTION
1-3,2-4	Normal Operation

- JP5:VGA 12V Jumper Selection

JP5	DESCRIPTION
1-3,2-4	Normal Operation
1-2,3-4	Use 12V

- JP6:FSB Frequency Jumper Selection

JP6	DESCRIPTION
1-2,3-4	FSB 400
Open	FSB 533

- JP7:COM4 422/485 Jumper Selection

JP7	DESCRIPTION
1-2	422
2-3	485

- JP8: Clear CMOS Setup

JP8	DESCRIPTION
1-2	Normal Operation
2-3	Clear CMOS Setup

- JP9: CF card setup

JP9	DESCRIPTION
Close	Master
Open	Slave

- JP10: LCD voltage setup

JP10	DESCRIPTION
1-2	3.3V
3-4	5V

- JP11: K/B Use Selection

JP11	DESCRIPTION
2-3,4-5	Normal Operation
Open	Use for JP11

- JP12: COM Port RI and Voltage Selection

JP12	DESCRIPTION
5-6,11-12,17-18	Use for RI
3-4,9-10,15-16	5V
1-2,7-8,13-14	12V

- JP13:COM4 RS232 or 422/485 Jumper Selection

JP13	DESCRIPTION
1-2	RS232
2-3	422/485

Others: Pin Assignment
Cash Drawer

Pin	Assignment
1	GND
2	DOUT
3	DIN
4	12V
5	No Connected
6	GND