# **SmartPay Plus**



# **Quick Reference Guide**

Sammi Paytech co.,Itd Ver 1.0 June. 2010

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#### **FCC Compliance Information**

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules.

These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

#### Caution

Modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment

# This device complies with Part 15 of FCC Rules. Operation is subject to the following twoconditions:

(1) the device may not cause interference, and

(2) the device must accept anyinterference, including interference that may cause undesired operation of this device.

#### **IMPORTANT NOTE:**

#### FCC RF Radiation Exposure Statement:

This equipment complies with FCC RF radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 20 centimeters between the radiator and your body. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

**NOTE:** THE MANUFACTURER IS NOT RESPONSIBLE FOR ANY RADIO OR TV INTERFERENCE CAUSED BY UNAUTHORIZED MODIFICATIONS TO THIS EQUIPMENT. SUCH MODIFICATIONS COULD VOID THE USER'S AUTHORITY TO OPERATE THE EQUIPMENT.

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#### Introduction

This quick reference guide allows you to use all the advanced features of SmartPay Plus effectively. Please go through it once before using SmartPay Plus handheld terminal.

## Chapter 1 Get to know more about SmartPay Plus

#### 1.1 Make sure you have everything

- ✓ SmartPay Plus main unit
- ✓ Stylus Pen
- ✓ Standard battery pack (1800 mAH Li-ion)
- ✓ Power adapter
- ✓ Synchronization cable (USB cable)
- ✓ Backup battery 110mA Lithium-ion (Embedded)

#### **Optional accessories**

- ✓ Docking station (Desktop and vehicle)
- ✓ Protective carrying case
- ✓ Synchronization cable (Serial)

#### 1.2 Appearance

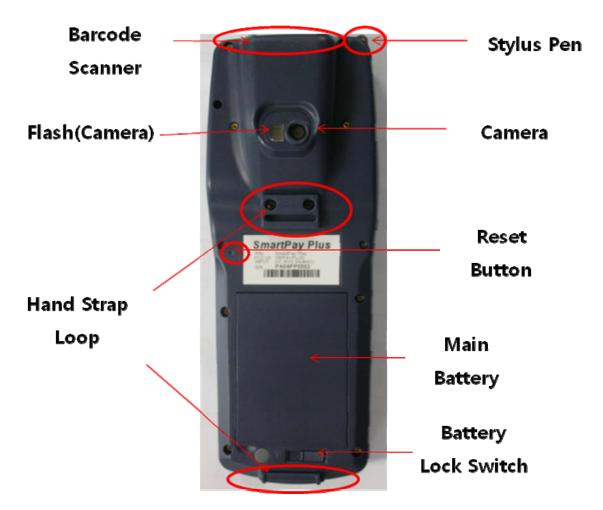
1.2.1 Front side



#### Features and description

Features	Function / Description
Printer Machanism	2inch thermal type printer and $30\%$ Roll paper
RFID Reader	To read the contactless IC Card by touching the printer cover
Communication &	It is blinking while running
Scanner LED indicator	
Finger Print Sensor	To scan and verify finger print as the registered one.
LCD touch screen display	It shows the running application and desktop,
	Stylus can be used to select the application and inputting data
	on touch screen

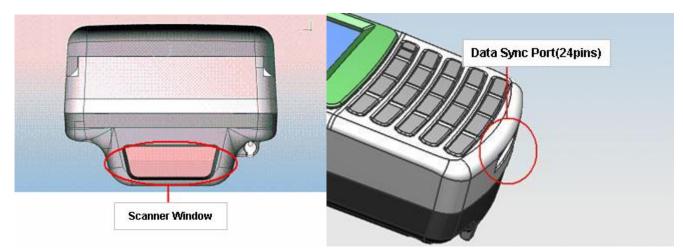
#### 1.2.2 Rear side



#### **Rear panel features**

Name	Function / Description
Stylus pen	To use for touch screen
Hand strap	To hold SmartPay Plus unit
Main Battery	To give Dc power to SmartPay Plus
Battery lock switch	To lock/unlock battery pack
Reset key	To perform warm and cold reset
Camera & Camera flash	2.0 Mega Pixel.

#### 1.2.3 Top & Bottom side



#### Features and description

Features	Function / Description	
1D Scanner window	While scanning the scanner beam is emitted and absorbed	
	through this window	
I/O port	To connect to other devices using synchronization cable	



#### Features and description

Features	Function / Description
Left Scan key	To scan the barcode user should press this key also known
	was hardware scan key.
Right Scan key	To scan the barcode user should press this key also known
	was hardware scan key.

# **Chapter 2 Hot Keys**

#### 2.1 Keys



#### 2.2 Front panel keys description

Key name	Functions description	
Navigation keys	Default To move the cursor left, right, up and down	
	In Function mode	
	<up> To increase intensity of backlight</up>	
	<down> To reduce intensity of backlight</down>	
	<right> To increase speaker sound</right>	
	<left> To decrease speaker sound</left>	
Power key	To turn SmartPay Plus (sleep / awake) and LCD backlight on/off	
TAB key	Functions same as "Tab" key on keyboard in windows mode	
	In function mode used to open application 1 or defined application	
Alpha key	To switch to alphabet mode	
Function key	Other keys in combination with "Func" key have secondary functions	
Enter key	Functions same as "Enter" key on keyboard in windows mode.	
	In function mode works as stylus calibration.	
Alpha-Numeric keys	To print various characters $(0 - 9, a - z \text{ etc})$ in editor window	
Home key	To clear desktop	
	In function mode to turn wireless on/off.	

#### Alpha-numeric Keys functions in different modes

Key	In numeric mode	In function mode	In alpha mode
<1>	Prints number 1 on editor screen	Functions as "Ctrl" key on	To switch to Caps lock
		keyboard	mode
<2>	Prints number 2 on editor screen	Functions as "Alt" key on	To print a/ b/c on
		keyboard	editor screen
<3>	Prints number 3 on editor screen	Functions as "Del" key on	To print d/e/f on editor
		keyboard	screen
<4>	Prints number 4 on editor screen	To open application 2 or	To print g/h/i on editor
		defined application	screen
<5>	Prints number 5 on editor screen	To open application 3 or	To print j/k/l on editor
		defined application	screen
<6>	Prints number 6 on editor screen	To open application 4 or	To print m/n/o on
		defined application	editor screen
<7>	Prints number 7 on editor screen	Functions as "+" key on	To print p/q/r/s on
		keyboard	editor screen
<8>	Prints number 8 on editor screen	Functions as "-" key on	To print t/u/v on editor
		keyboard	screen
<9>	Prints number 9 on editor screen	Functions as "Insert" key on	To print w/x/y/z on
		keyboard	editor screen
<0>	Prints number 0 on editor screen	Functions as "/" key on	To print blank space
		keyboard	on editor screen
<.>	Prints number decimal/period on	Functions as "*" key on	To print .,:@ on editor
	editor screen	keyboard	screen

#### LED colors and description

Name	On state	
Battery charging LED	Blinking blue – Low battery (below 10%)	
	Green – Fully charged	
	Red – While charging	
Wireless LAN indicator LED	Blinking green - Wireless LAN on	
Scanner LED	Red - Scanner result (error)	
	Green - Scanner result (success)	

## **Chapter 3 Power settings and connections**

#### 3.1 Power management

SmartPay Plus works on DC power.

A standard lithium ion battery pack (7.4V, 1800 mAH) is provided for Dc power input to SmartPay Plus. Charging time is 5 hours with 10 operation and 100 standby hours.

Battery low (below 10%) condition is indicated with Blue power LED.

In order to support SmartPay Plus in low battery state, there is an inbuilt 110 mAH rechargeable backup battery provided, it has backup time of 2.7 hours without main battery (in sleep mode).

For charging both main and backup batteries an AC adapter 100-240 V 50/60 Hz and 9 V/ 2~3A DC output is provided with power cord.

Note: Never use SmartPay Plus unit without main battery.

#### 3.2 Install battery in SmartPay Plus

Detach the hand strap end on rear side of SmartPay Plus. Unlock the Battery lock switch. Slid the battery latch upwards and insert the battery pack given with the correct polarity. **Note: Only use the batteries which are provided for SmartPay Plus units.** 

#### 3.3 Battery charging using power adapter

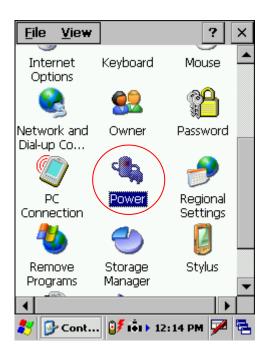
Connect power cord from AC power supply to AC adapter/charger. Connect Ac adapter to SmartPay Plus through DC input jack present on bottom side. While charging power LED will be red, after fully charged it will be green. Backup battery also gets charged during this time. Charging time is 5 hours.

#### 3.4 Power settings on Windows CE

To check the battery status

Start > Settings > Control panel > Power > Power properties > battery > power (main battery / backup battery)

It shows the charged status of both main and back batteries.



Power Properties ? OK ×	Power Properties ? OK ×
Battery Schemes Device Status	Battery Schemes Device Status
Power	Power
Main battery	
90%	100%
👥 Backup battery	👥 Backup battery
10%	100%
🐉 🗞 Pow 🖢 เจ๋เ > 12:15 PM 🏓 😤	🐉 🗞 Pow 💕 i∳i ▶ 12:14 PM 🎾 🖷
Awake mode	while charging

Power Properties ? OK ×	Power PropertiesOK 🗙
Battery Schemes Device Status	Battery Schemes Device Status
Power Scheme:	Device NamePower LevelBKL1:High (D0)NDS0:High (D0)SDCCF10G1High (D0)WAV1:High (D0)
Switch state to <u>U</u> ser Idle: After 1 minute	ningin (667
Switch state to System Idle:	
Switch state to <u>S</u> uspend:	A漢
鸄 💁 Pow 🕑 🖏 12:14 PM 🏓 🖷	🐉 🐁P 🕃 🎐 오후 12:08 🗭 🖷
Power schemes	Device status

#### 3.5 Turn on SmartPay Plus

Check the backup battery switch position, to turn on SmartPay Plus unit it has to be up position. Use stylus pen to turn it on.

Connect the main battery to SmartPay Plus main unit. Make sure that battery is fully charged for 5 hours, before it is used first time.

#### 3.6 Turn off SmartPay Plus

To power off SmartPay Plus, hold the power key for 3 seconds, which will put the unit in sleep mode. LCD backlight can be turned on/off by one touch on/off of the power key.

## **Chapter 4 Operation modes**

#### 4.1 Normal mode

In normal mode all functions will be available and SmartPay Plus will be active.

#### 4.2 Suspend mode

In suspend mode SmartPay Plus will look, as if it is turned off.

SmartPay Plus can be put in suspend mode in following ways:

- 1 Holding down the power key for 3 seconds, when it is on.
- 2 If main battery fails.

Note : If SmartPay Plus is not operated for specified period it can be switch to suspend mode, this time can be set as follows

Start > settings > control panel >	power properties >	<ul> <li>schemes &gt; battery power</li> </ul>
------------------------------------	--------------------	--



SmartPay Plus can be put back in active mode in following ways:

- 1 One press of power button, when SmartPay Plus unit is off.
- 2 By putting it in powered docking station.
- 3 By replacing the batteries with charged ones and press power button.

# **Chapter 5 Resetting SmartPay Plus**

Resetting means closing all applications and refreshing RAM (Random Access memory) This is done in two ways:

#### 5.1 Warm Reset

If handheld hangs in between and stops responding, please perform warm reset.

In order to perform warm reset, press (one touch) software reset button till handheld starts rebooting. Warm reset restarts the handheld by closing all the running programs. Always try warm reset first, if handheld do not respond, then try cold reset. The data which is not saved will be deleted and the saved data will remain in the appropriate directory.

#### 5.2 Cold Reset

A cold reset clears the entire contents of RAM, including programs and data loaded in the Object Store (system memory). But the data on the "Flash Disk" will remain as it is, so it is necessary to store the important applications on "Flash Disk" before cold reset.

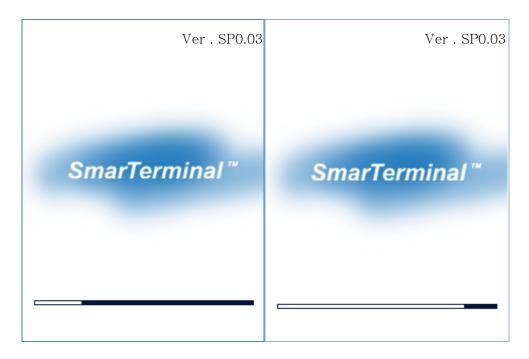
The memory capacity of "Flash Disk" is 512MByte.

The operating system is reloaded and any applications set up for automatic installation are reinstalled. Cold reset is only recommended when all other procedures fail and SmartPay Plus stops working. Follow the instructions below for the cold reset

#### Method 1

- 1 Release the lower clip of the hand strap.
- 2 Remove the battery pack.
- 3 Slid backup battery switch down and then again up to reset backup battery.
- 4 Reinstall the battery pack.

Following screen shots shows the cold reset functioning.





Торіс	Warm reset	Cold reset
Reason for reset	If application hangs	If operating system locks up and
		warm reset does not work
Refresh status	It closes all applications	It closes all applications
	Preserves file system	Refreshes RAM
		Clears Files too
Procedure to	One touch of software reset button	One touch of software reset button
reset		(Cold reset Version OS)
After state	Splash screen will appear shortly	After Splash screen booting image will
	Desktop will appear	appear and then Desktop screen will be
		shown.
		Custom setting will remain persistent
Priority	Always try warm reset first	Only if warm reset fails then try cold
		reset

# Chapter 6 Configuring SmartPay Plus

#### 6.1 Main Display screen description

Following is the display screen picture

My Device		
🤕 Recycle Bin		
Internet Explorer	Windows CE 5.0	
1	an an C	
2000 44	Task bar	-
Start buttor	n Keyboard icon	

It has the following

1 Task bar

2 Start button

**1 Task bar**: The task bar at the bottom of the screen displays the start menu icon, icons for the active programs, the current time and system icons for utilities loaded in memory.

It has keyboard icon, which opens and hides the soft input panel (SIP).

It has a button which shows present power status of SmartPay Plus i.e. either AC (power cord) while charging, backup battery in low power conditions.

Task bar allows user to open and close the programs or utilities.

#### 2 Start button:

Start button is at the left corner in the task bar which allows opening start menu.

Start menu has the following options

**Programs** > shows all the installed program list as well as user can run the programs from sub-menus **Favorites** > User can set the internet favorites and the necessary programs

**Documents** > list of latest open documents

#### Settings > Control Panel

Network and Dial-up connections

Taskbar and start Menu

**Help** > Win CE help manual

Run command > To run programs directly

#### Soft Input panel (SIP)

The keyboard button allows user to open or close the onscreen keyboard. The keys of a keyboard can be used by tapping them using stylus pen.

Inpu	t F	)an	el									
Esc 1	2	:]3	4	5	6	7	8	9	0	-	=	ŧ
Tab	q[	w	e	r [	t[	УI	u	i	0	р	[]	]
CAP	а	s	d	f	g	h	j	k	ĪΤ	];	Ŀ	Γ
Shift	z	Ι×	[ c	I۷	b	[n	Im	Ŀ,	Ι.	L	١ŀ	₽.
Cti[á	iü	• I	١I					Ι	ΨI	1	←	→

#### 6.2 Calibrating the touch screen

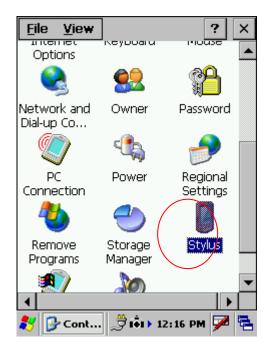
In order to use stylus pen on touch screen it is necessary to calibrate the screen first

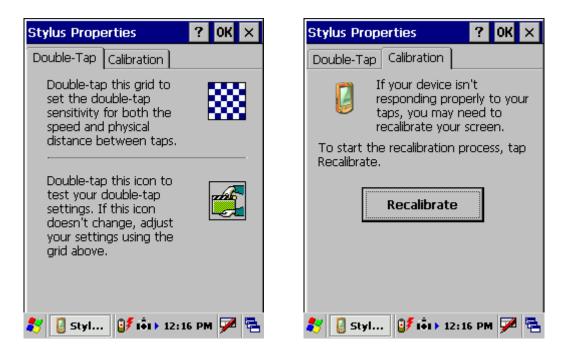
It can be done in following ways

Start > settings > control panel > stylus icon > Double tap / calibration

Double tap – Use the grid to set the double tap sensitivity for speed and physical distance between the taps.

Calibrate - Hit the recalibrate button and touch the points shown on the screen till it says calibration over.





#### 6.3 Setting up WLAN card

In order to set WLAN settings

1 Open wireless settings screen using Function + home key, same key combination can be used again to exit the wireless LAN.

2 Select the network which need to be accessed and tap the connect button.

3 To add a new network, double tab on Add new and select the network from the list.

4 confirm it using <Ok> or press <Enter> key on keyboard.

To change the settings of wireless LAN

Start > Settings > Network and Dial-up Connections, Right mouse click and select properties on Wireless network



For IP address

Obtain an IP address via DHCP (Dynamic host configuration protocol) > to get automatic IP address, if this fails

Specify an IP address > Enter IP address and Server address and select <OK>, it connects to the network. User can use any browser to access internet.

Connection 🛬 🔀 🕐 🗙	'Agere Wireless Network OK 🔀	'Agere Wireless Network 🕅 🔀
😼 🐮	IP Address Name Servers	IP Address Name Servers
Make New SDCCF10G1 Connection	An IP address can be automatically assigned to this computer.	Name server addresses
	🔵 Obtain an IP address via DHCP	Primary DNS:
	Specify an IP address	Secondary DNS:
	IP Address:	Primary WINS:
	Subnet Mask:	Secondary WINS:
	Default Gateway:	
🐉 🗞 Con 🚺 🍢 12:02 PM 🏓 🖷		

#### 6.4 Volume / sound control

In Function mode Right and left navigation keys can be used to use to increase and decrease the sound. User can check the sound intensity with the background sound which is generated while increasing and decreasing the volume through application

Start > settings > control Panel > Volume/sound



**Volume** - Adjust the volume as per the requirement using slider and check boxes.

**Sound** - Select sounds as per the requirement for each event.

Volume & Sounds Pro ? OK 🗙	Volume & Sounds Pro ? OK 🗙
Volume Sounds	Volume Sounds
Soft Loud Enable sounds for: Events (warnings, system events) Applications Notifications (alarms, reminders)	Event: Windows CE Close Program Close Program Ecritical Stop Critical Stop Exclamation Exclamation
	Sound: Preview:
	(None)
	Scheme: Windows CE Default   Bave As  Delete
🦹 🔊 Volu 🕼 👬 12:27 PM 🏓 🖷	🐉 🔊 Volu 🐠 🗟 12:27 PM 🌌 🖷

#### 6.5 Date/Time settings

In order to set date and time do the following

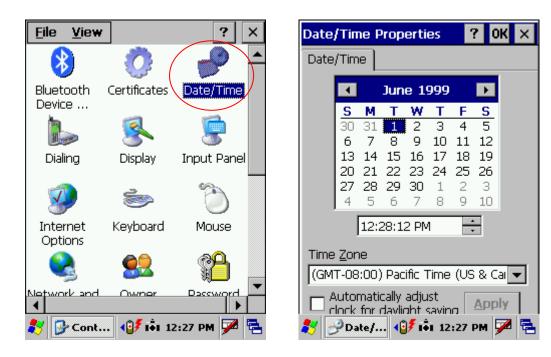
#### Method 1

Start > settings > control panel > Date and time > Date and time properties dialog will show up.

#### Method 2

Double tap on the time on the task bar which will open up Date/time properties screen.

Change Date and time as per the requirement.



# Chapter 7. Applications and operations

#### 7.1. Scanning Barcode (1D/2D CCD type scanner)

CCD Charge coupled device technology scanner consists of a series of light-sensitive circuits that capture the reflected light and register its intensity and color after it is reflected from a series of mirrors. It utilizes the same technology that video cameras use.

Following procedure is used to read barcodes

Execute the application for bar code reading
 Start > Programs > Scanning > ScanDemo application or use the icon on desktop



It runs in the background, user can find out by the bar code icon in system tray

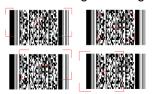
- 2 Aim the scanner window at the barcode
- 3 Press Left or right barcode scan button for 5 seconds
- 4 Aim the laser beam at the center of the barcode
- 5 check the scanning result either with beep sound or scanner LED indicator Red > Error

Green > success

If there is an error, repeat the procedure till the barcode gets successfully read

Correct scanning method





Wrong scanning method

#### 7.2 1D/2D Scanner configuration settings

Select Start > Programs > Control panel > Scanner configuration icon

Sammi 1D Symbol	×
Symbologies	SCAN SETTING
ScanData	
<ul> <li>AutoScan</li> <li>✓ BEEP</li> <li>✓ VIBRATE</li> </ul>	
🍠 🌨 S 😰 🍛 오후 12:22 💆	

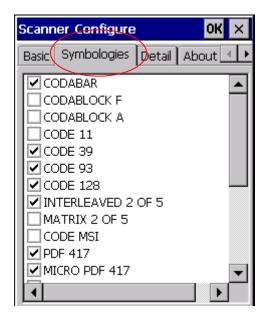
Before you begin

This Application consists of the following 5 Tabs.

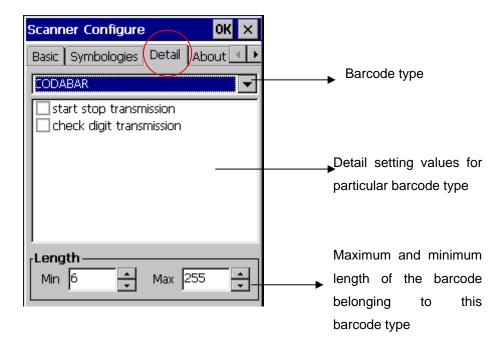
- 1. Basic -- Changes the default settings of Barcode scanner.
- 2. Symbologies -- Select the types of Symbologies.
- 3. Detail -- Changes barcode symbology parameter settings in SmartPay Plus.
- 4. Options -- Set the other functions of the scanner like Sound and Scan Key change.
- 5. About -- Shows the scanner configuration version and scanner firmware version.

Scanner Configure OK ×
Basic Symbologies Detail About 💶 🕨
Basic
Trigger Timeout(sec)
Keybd Emulation
Termination Code None 💌
Continuous Scan
Enable Inteval(sec) 🛛 💌
Prefix / Suffix
Prefix Suffix

Menu option	Function				
Trigger time out	Scanning time in seconds, which is the waiting time to read a barcode				
	exactly.				
Keyboard Emulation	There will be n	o keyboard event after scanning barcode, scanned data			
(Disabled)	will be transfer	will be transferred directly to the user application			
Keyboard Emulation	Type writing	Shows encrypted barcode as alphanumeric form			
(Enabled)	Copy / paste	copy /paste the scanned barcode in editor window			
Terminator	Add a automatic text after each bar code , it can be set as None, CRLF,				
	CR, LF, Space, Tab, STX-ETX				
Continuous Scan	No continuous scanning				
(Disabled)					
Continuous Scan	Scan continuously the barcode with set time interval.				
(Enabled)					
Prefix	Add code before each barcode e.g. when scanned value is 12345 and				
	prefix is ABC, It will be shown as ABC12345.				
Suffix	Add code after	each bar code e.g. when scanned value is 12345 and			
	suffix is ABC, It has shown as 12345ABC.				

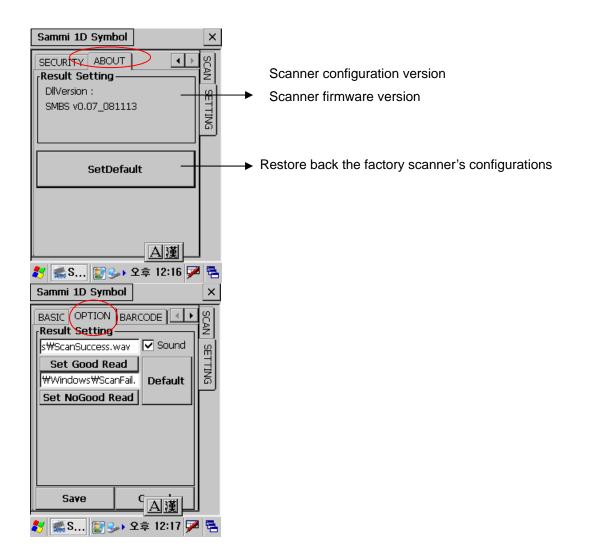


Check mark means select the barcode type for scanning, the unmarked barcodes will not be scanned.



#### Options

Decoding	0 1	Not active Active (default)
Format	0 1	Standard 43 characters (default) Full ASCII
Start/Stop	0 1	Not transmitted (default) Transmitted
Start/Stop characters (Not supported when us- ing an imager)	0 1 2	\$ (dollar sign) only * (asterisk) only (default) \$ and * (dollar sign and asterisk)
Check digit	0 1 2 3 4 5 6	Not used (default) Mod 43 transmitted Mod 43 not transmitted French CIP transmitted French CIP not transmitted Italian CPI transmitted Italian CPI not transmitted
Bar code length	0 1	Any length (default) Minimum length
Minimum length	001-254	Minimum length 1–254 (default is 6)

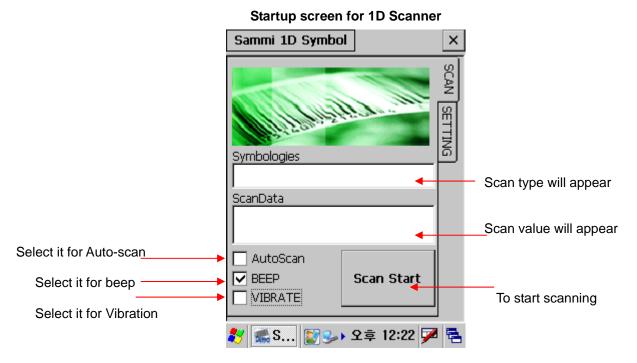


Menu Option	Function
Sound	To activate beep sound
Setting Good Read	Tap on this button allows to select the (*.wav) sound file for
	beep "On success of barcode scanning"
	The selected file name will be displayed in the fill-in above
Setting No Good Read	Tap on this button allows to select the (*.wav) sound file for
	beep "On failure of barcode scanning"
	The selected file name will be displayed in the fill-in above
Default	Will restore back the default sound files for both operations
	success and failure
Vibrate	Select to use vibrate mode on scanning (success/failure)
Vibrate (mille second base)	Time interval for vibration
Setting Vibrate time	To save the assigned time interval and test it
Default	To restore back the default vibration settings

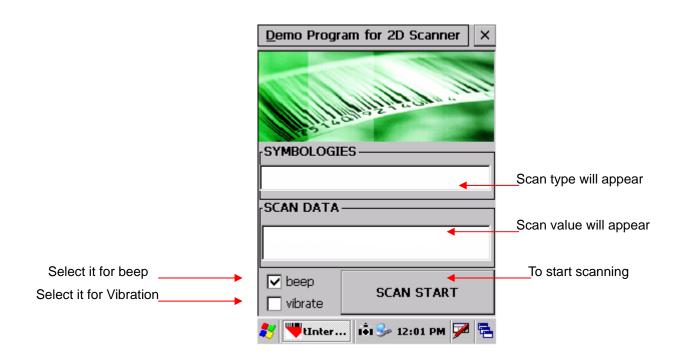


#### 7.3 Demonstration program for 1D / 2D Scanner

To start the demonstration program Start > Programs > Scanner > ScanDemo



Startup screen for 2D Scanner – Scanner waiting screen



For Scanning bar code user can either press SCAN START button once or one of the hardware buttons on the left/right side of the SmartPay Plus unit. The result will be same for both procedures.

After **successful** barcode scanning the scan type and value will be displayed in respective fill-ins

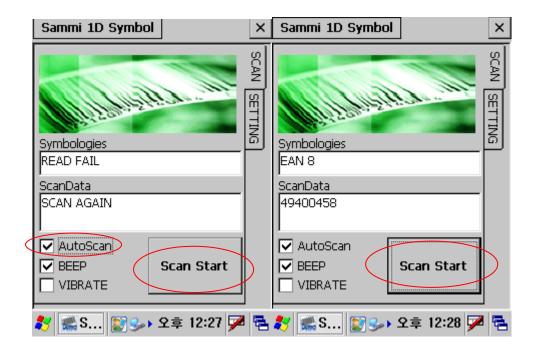
On **failure** of barcode scanning Scan fail and try again messages will appear

Sammi 1D Symbol	×	Sammi 1D Symbol	×
Symbologies EAN 8 ScanData 49400458	SCAN SETTING	Symbologies READ FAIL ScanData SCAN AGAIN	SCAN SETTING
<ul> <li>AutoScan</li> <li>✓ BEEP</li> <li>✓ VIBRATE</li> </ul>		<ul> <li>AutoScan</li> <li>✓ BEEP</li> <li>✓ VIBRATE</li> </ul>	
鸄 🌊 S 😰 🍛 오후 12:24 🗭	1	🍠 🌊 S 😰 🍛 오후 12:26 🗭	

For Beep select Beep checkbox, the specific beep sound can be selected through control panel settings. For Vibration on success or failure select vibrate checkbox.

For Auto scan select the auto scan check box. Unless deselected the auto-scan mode will be activated whenever user starts the program.

In auto scan mode, once the < Scan start > button is pressed, the scanning beam will continuously come till <Scan stop> button is pressed.



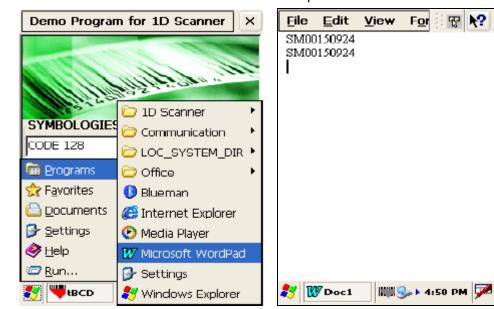
Start > Program > Run wordpad

Scan start > Scanned barcode data will get copied to wordpad

> Ŧ •?

×

둳



#### 7.4 Printer demonstration program

1. Double click msrprt\_test.exe.



#### 2. Initial Screen

MsrPrt_Test	ок 🗙
Card Number	
Valid Thru(Month/Year)	
Money	
Tax(%) Tip(%)	
10 - 10	
Input Panel	
	- = 🗲
Input Panel	- = 🗲 P [ ]
Input Panel Esc 1 2 3 4 5 6 7 8 9 0	- = <b>+</b> p [ ] ; ' .
Input Panel Esc 1 2 3 4 5 6 7 8 9 0 Tab q w e r t y u i o CAP a s d f g h j k I Shift z x c y b n m , .	
Input Panel Esc[1]2]3]4]5]6]7]8]9]0 Tab[q]w]e]r]t]y]u]i]o CAP[a]s]d]f]g]h]j]k]I	

#### 3. Enter card number.

MsrPrt_Test	ок 🗙
Card Number	
4567-345	
Valid Thru(Month/Year)	
	-
Money	
Tax(%) Tip(%)	
Tax(%) Tip(%)	Ţ
	Ţ
10 = 10	
Input Panel	- = (+ p [ ]
Input Panel Est[1]2]3]4]5]6]7]8]9]0	- = (+  -   (-   (-   (-   (-) (-) (-) (-) (-) (-) (-) (-) (-) (-)
Input Panel         Esc 1 2 3 4 5 6 7 8 9 0         Tab q w e r t y u i o         CAP a s d f g h j k I         Shift z x c y b n m , 1	- = () - = ()
Input Panel         10           Esc 1 2 3 4 5 6 7 8 9 0           Tab q w e r t y u i o           CAP a s d f g h j k l	- = ● P [ ] ; ' ↓ / ↓

4. Enter Valid period of the card.

MsrPrt_Test	ок 🗙
Card Number	
4567-3456-7890	
Valid Thru(Month/Year)	
10/09	
Money	
Tax(%) Tip(%)	-
Input Panel	
Esc 1 2 3 4 5 6 7 8 9 0	<b>└-  =[</b> ◆
<u>Tab q w e r t y u i o</u>	p[[]
<u>CAP a s d f g h j k l</u>	
Shift] Z ] X ] C ] Y ] b ] n [m] , ] .	.[/[⊷]
Ctl[áü]`[\] ↓]	↑ [←[→]
🐉 🎇 MsrPrt_Test 🎐 12:02 PM	• 🗰 🔁

### 5. Enter amount to pay.

MsrPrt_Test	OK ×
Card Number	
4567-3456-7890	
Valid Thru(Month/Year)	
10/09	_
Money 3456	
Tax(%) Tip(%)	
Input Panel	
Esc 1 2 3 4 5 6 7 8 9 0	- = 🗲
<u>Tab[q]w]e[r]t]y]u]i]o]</u>	<u>[]]q</u>
<u>CAP a s d f g h j k l</u>	
Shift] z ] × ] ¢ ] v ] b ] n [m] , ] .	[/[⊷]
<u>Ctl[áü]`[\[ [↓]</u>	↑ [←]→]
🐉 🌄 MsrPrt_Test 🎐 12:02 PM	<b>1111</b>

The last two digits are Cent unit and decimal point is omitted.

Above is 34 dollars and 56 cents.

6. When clicking non-entering block, keyboard will disappear.

MsrPrt_Test	ОK	×
Card Number		
4567-3456-7890		
Valid Thru(Month/Year)		
10/09		
Money 3456		
Tax(%) <u>Tip(%)</u>		
10 🔻 10		▼
Prt English Ex	at	
🐉 🌄 MsrPrt_Test 🎐 12:03 PM	1	1

### 7. Click 'Prt English' button to print.

MsrPrt_Test	OK ×
Card Number 4567-3456-7890	
Valid Thru(Month/Year) 10/09	
Money 3456	
Tax(%) Tip(%) 10 ▼ 10	•
Prt English E	xit
🐉 🎇 MsrPrt_Test 🎐 12:03 P	м 🏴 🗟

8. Click 'Exit' button to close program.

# 7.5 RFID demonstration program

# Run RFDDemo Program

1. Start-> Programs-> RFID_M4_Beta0-> RFDDemo Click	
My Device	
- 🤕	
Recycle Bin	
Communication	
RFID_M4_Beta0	
Set	
🖅 Rur 🕑 Media Player	
🚺 Microsoft WordPad	
🔊 S🖳 🤫 Remote Desktop Connection	
💐 🛛 🥙 Windows Explorer	

2. If the problem has been failed to run	2. If the program runs properly you will
you will need to check the device	see the Main Screen of the program as
properly and try again.	below.
<u>File Edit H</u> elp ×	<u>File Edit H</u> elp ×
TagRead ModuleInfo	TagRead ModuleInfo
Type       Welcome       Select         I       D       Click to SelectTag       Tag         The       SKP_M4       OK       ×         N       Invalid, use current host interface.       Invalid       Invalid	Type       Welcome       Select         I       D       Click to SelectTag       Tag         The History of SelectTag       N       TYPE       ID
HistoryClr to. Main TagInfo TagDetail	HistoryClr to. Main TagInfo TagDetail
<i>≹</i> [∑SKP_M4] [2] 5 PM 🗭 😤	Ready 🛃 🚰 SKP_M4 🛛 🖉 🛸 12:29 PM 🏓 🖷

### Version information

If you'd like to see version information of the program please follow as below.

Click Help-> Click ModuleInfo Tab	You are able to see Demo version and
	Module information.
<u>File Edit H</u> elp ×	<u>File Edit H</u> elp ×
TagRead       ModuleInfo         Type       Welcome         I       D         Click to SelectTag       Tag         The History of SelectTag       N         N       TYPE         ID       ID	TagRead       ModuleInfo         DllVersion :       SMRFID_v000         FirmWare :       0101067C         Support for a variety of 14443A         and B proximity tags suited for         access control (NXP Mifare         Ultralight, NXP Mifare Classic, NXP         DESFire, ST Micro SRIX4K, ST Micro         SRI512)
HistoryClr to. Main TagInfo TagDetail	
Ready	Ready
	🐉 🛃 5КР_М4 📓 🦻 12:31 РМ 🏴 🖷

#### <Firmware TABLE>

#### FirmwareVersion <0101060F>

Support for a variety of ISO15693 compliant tags (NXP I-Code SLI SL2 ICS20, TI Tag It HFI Plus, Pro and Standard, Tagsys C370, ST Micro LRI512, LRI2K, LRIS2K) SkyeTek Secure Memory Features (AES128, 192 and 256 for Encryption, SHA256 and SHA1 for Hashing)

#### FirmwareVersion <0103060C>

Payment Continuous Scan Mode (polls for payment cards an reports back Track1 and Track2 data) Supports contactless payments from Mastercard (Magstripe Protocol v3.1), Visa(Magstripe Protocol v1.4.2), American Express(Application Protocol v1.7), and Discover (Contactless Payment Protocol v1.01).

#### FirmwareVersion the orders.

Support for a variety of 14443A and B proximity tags suited for access control (NXP Mifare Ultralight, NXP Mifare Classic, NXP DESFire, ST Micro SRIX4K, ST Micro SRI512)

### **Main Screen**

-

Main Screen configuration	① You can see the Tag value after reading
<u>File Edit H</u> elp ×	in the boxes
TagRead ModuleInfo	2 You can see History of read tags on this
(Typ∈ Welcome I D Click to SelectTag <b>Select</b> Tag	<ul> <li>field</li> <li>3 To clear history</li> <li>4 To return to main screen when windows</li> </ul>
The History of SelectTag	of <b>⑤ ⑥</b> open <b>⑤</b> To open tagInfo window <b>⑥</b> To open TagDetail window
HistoryClr 3 to. Main TagInfo TagDetail 4 S Ready SKP_M4 S S 12:37 PM P	

# Select Tag

Select Tag	
<u>File Edit H</u> elp ×	<u>File Edit H</u> elp ×
TagRead ModuleInfo	TagRead ModuleInfo
Type ICODE_SLI_SL2_1K Belect I D E0040100030F126F Tag	Type ICODE_SLI_SL2_1K I D E0040100030F126F
The History of SelectTag	The History of SelectTag
N TYPE ID	N TYPE ID 🛛 2 🔺
0 121 E0040100030F126F	4 121 E0040100030F126F
	3 121 E0040100030F126F
	2 121 E0040100030F126F 🗾
HistoryClr	HistoryClr
to. Main TagInfo TagDetail	to. Main TagInfo TagDetail
Ready	Ready
鸄 📝 5КР_М4 📓 🥪 12:49 РМ 🏓 🖷	鸄 📝 SKP_M4 📓 🥪 12:44 РМ ጆ 🖷

- 1 To read TagID, click the button
- 2 You are able to see and select tag data from the field

# TagInfo (EAS/AFI/DSFID)

Click TagInfo	
<u>File Edit H</u> elp ×	<u>Eile Edit H</u> elp ×
TagReadModuleInfoTypeICODE_SLI_SL2_1KSelectIDE0040100030F126FTagThe History of SelectTagNTYPEID0121E0040100030F126F	TagReadModuleInfoTypeICODE_SLI_SL2_1KSelectIDE0040100030F126FTagBlockSize4 * 28 BlocksTagEASYESGetAFI22GetDSFID01Get
HistoryClr to. Main TagInfo TagDetail	to. Main TagInfo TagDetail
Ready	Ready
	🐉 📝 5КР_М4 📓 🥪 12:58 РМ 🏓 🖷
Displays Tag information which is being read	currently.
You can identify value of EAS/ AFI/ DSFID by	clicking Get button of each line.
You can set value of EAS/ AFI/ DSFID by clic	king Set button of each line.

### Detail

Click TagDetail	TagDetail window will open if the device
	reads Tag

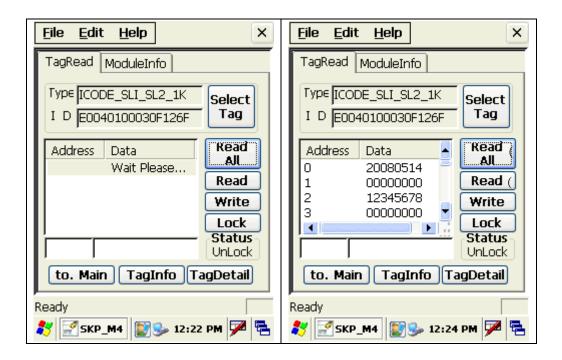
<u>File Edit H</u> elp ×	<u>File Edit H</u> elp ×
TagRead ModuleInfo	TagRead ModuleInfo
Type ICODE_SLI_SL2_1K I D E0040100030F126F Tag	Type     ICODE_SLI_SL2_1K     Select       I     D     E0040100030F126F     Tag
The History of SelectTagNTYPEIDID0121E0040100030F126F	Address       Data       Read All         0       20080514       All         1       00000000       Read2         2       12345678       Writ         3       00000000       Lock4         Status       Status
HistoryClr	0 6 20080514 UnLog
to. Main TagInfo TagDetail	to. Main TagInfo TagDetail
Ready	Ready
🐉 🛃 SKP_M4 📓 🥪 12:56 РМ 🏴 🖷	🌮 🔀 5КР_М4 🕼 🥩 12:11 РМ 🏴 🖷

- ReadTagAll commend is automatically executed when TagDetail runs.
- 1 To read whole memory of the tag
- ②To read data of address number which indicated on ⑤.
   Reading address 0 is default if there's no selection
   Read data is indicated on ⑦
- ③ To write data to address number which indicated on ⑥ Refer to data on( digit numbers should be same as once read
- (To lock data not to be written on TagBlock.
- (You can see lock status of data on each address.

### ReadTagAll

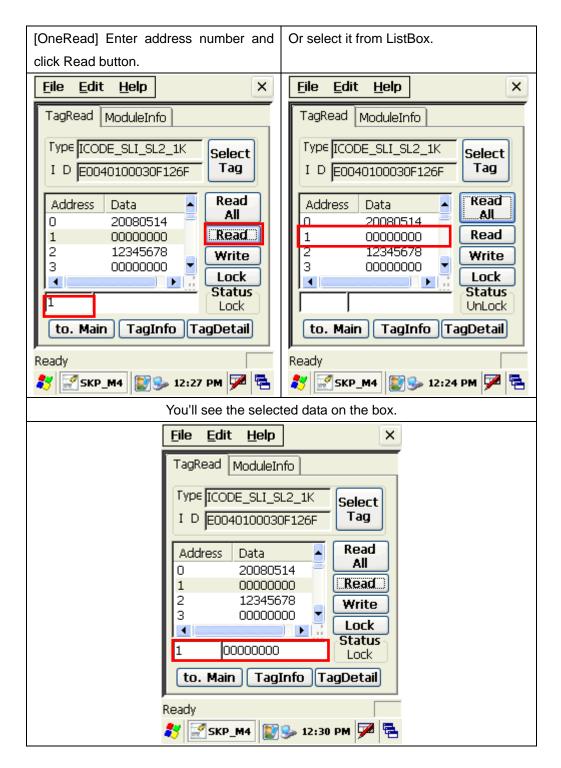
To read whole memory of the Tag

ReadTagAll] TagDetail Click	If success data comes on the list box
-----------------------------	---------------------------------------



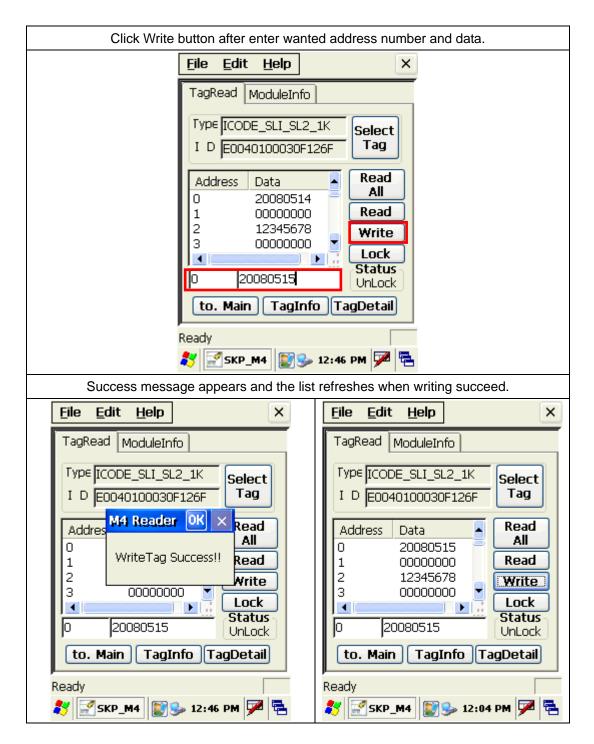
### OneReadTag

To check one memory of the address from the tag



### WriteTag

To write data on wanted memory of the address

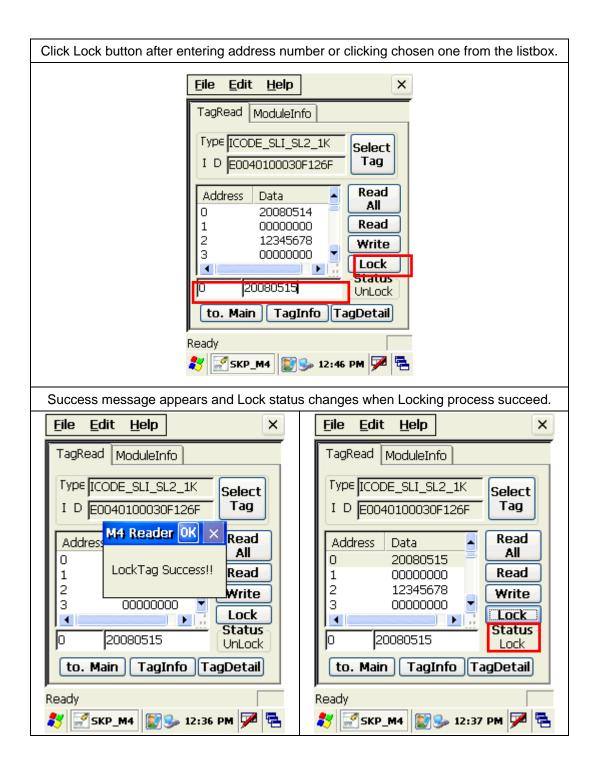


Fail message appears when data has been	When there's no tag to write.
---	-------------------------------

locked or failed during the writing process.	
<u>File Edit H</u> elp ×	<u>File Edit H</u> elp ×
TagRead ModuleInfo	TagRead ModuleInfo
TypeICODE_SLI_SL2_1KSelectIDE0040100030F126FTag	Type Read Fail!!     Select       I D Please Try again     Tag       TagDetail     OK
Address Address WriteTag FAIL!  WriteTag FAIL!  Write	Add O D D D D D D D D D D D D D
Lock 1 00000000 to. Main TagInfo TagDetail	Lock 1 00000000 to. Main TagInfo TagDetail
Ready           8         5         5         12:46         PM         PM         PM	Ready           8         8         9         12:46 PM         9         12:46 PM         12:46 PM

LockTag

To lock data on wanted memory of the address in order to protect the data

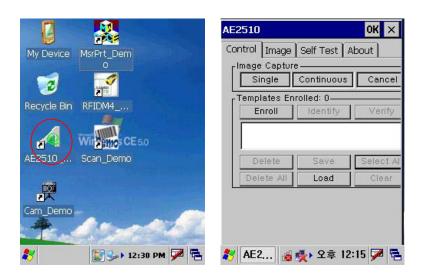


In case of no tag.

[	<u>File Edit Help</u> X
Í	TagRead ModuleInfo
	Type Read Fail!! I D Please Try again TagDetail OK ×
	Add Please, Attach Tag to On the Module. And Click SelectTag. te
	Lock 1 00000000 Lock
	to. Main TagInfo TagDetail
	Ready
	🐉 📝 SKP_M4 📓 🥪 12:46 PM 🏓 🖷

# 7.6 Finger Print

Program execution : Character Screen > AE2510\_Demo



# 1. Single

AE2510	ОК	× AE2510		ок 🗙	AE2510	ок 🗙
Control Image Se	If Test About	Control Image	Self Test /	About	Control Image	Self Test About
Image Capture	ntinuous Can	el Image Captur	re	Cancel	Image	Capture Successful,
		Templates Er				Course of the
	dentify Ver		Identify	Verify	and a second	Andreas and a state of the stat
					-	
Delete	Save Selec	Al Delete	Save	Select Al	10	11112
Delete All	Load Cle		Load	Clear		
Captu	ring Image jj	Image	Capture Succ	essful <u>  </u>	10	IIIIIII
Swipe finge	r on the sensor				111	1861114111
教 AE2 👩 🕵	오후 12:16 🗭	🖶 矝 🗛 😹	🔹 오후 12	:16 🏓 🖷	教 AE2 🔞	🔹 모후 12:16 🖓 🗟

1) Selects single mode.

2) To read the fingerprint in the fingerprint recognition sensor.

3)Image Capture Successful.

4) The imageTap from will be able to confirm.

## 2. Continuous

AE2510		ок 🗙	AE2510		ок 🗙	AE2510		ок 🗙
Control Image	17 St.	bout ]	Control Image	9	pout	Control Image	10	pout ]
Single	Continuous	Cancel	Single	Continuous	Cancel	Single	Continuous	Cancel
Templates Er	nrolled: 0		Templates En	rolled: 0		Templates En	rolled: 0	
Enroll	Identify	Verify	Enroll	Identify	Verify	Enroll	Identify	Verify
Delete Delete All	Save Load	Select Al	Delete Delete All	Save Load	Select Al Clear	Delete Delete All	Save Load	Select Al Clear
Ca	apturing Image	(2)	Image C	apture Succe	ssful, <mark>(3)</mark>	Ca	apturing Image.	· (A)
	inger on the s	$\sim$			9		inger on the s	$\mathbf{U}$
🂦 AE2 👩	救 오후 12:	17 🗭 🗟	教 AE2 👩	🔹 오후 12:	17 🗭 🗟	教 AE2 👩	🔹 오후 12:	17 🗭 🔁

AE2510	OK × AE25	10	OK 🗙 A	E2510		ок 🗙
Control Image Self Test	: About Contr	ol Image Self	Test About	Control	Image	Self Test About
Waiting for Fin	nger Print	Image Captu	re Successful	1	Waiti	ng for Finger Print
▲ AE2 · · · · · · · · · · · · · · · · · ·	12:16 ጆ 😤 🇞 A		2020 2020 2020 2020 2020 2020 2020 202	AE2	6	🍢 오후 12:16 🗭 🔁

1)Press the "Continuous button"

2) you can see waiting signal(2)

3)next, image capture successufully.

4) waiting..next capture

# 3. Enroll / Identify

AE2510	ок ×	AE2510 OK ×	AE2510	ок 🗙	AE2510	ок 🗙
Control Image	Self Test About	Control Image Self Test About	Control Image Self To	est About	Control Image Self Te	st About
Image Captu	re	Image Capture	Image Capture		Image Capture	
Single	Continuous Cancel	Single Continuous Cancel	Single Continuou:	s Cancel	Single Continuous	Cancel
Templates Er	nrolled: 0 Identify Verify	r Templates Enrolled: 0	Templates Enrolled: 0		Templates Enrolled: 1	11
			Enroll Identify	Verify	Enroll Identify	Verify
		paytech OK			paytech	
Delete	Save Select Al	Cance				1
Delete All	Load Clear Capture Successful	Enroll operation started	Delete Save	Select All	Delete Save	Select All
mage			Delete All Load	Clear	Delete All Load	Clear
			Enroll operation st		Enroll of "paytech" was	successful
AF2	🛃 Q 🖶 12:16 📝 📑	送] 🍠 Ent 👩 🕵 오후 12:18 🗭 🗟	Found Finger	r 12:07 PM 🗭 🔁	💦 AE2510 🛛 💭 🍛 1	L2:07 PM 🗭 🖶
AE2510	OK ×				A REZSIO	2:07 PM 72 4
	e Self Test About	AE2510 OK ×		ок ×	AE2510	ок 🗙
	· · · · · · · · · · · · · · · · · · ·	Control Image Self Test About	Control Image Self T	est About	Control Image Self Te	st About
	Continuous Cancel		Single Contin	uous Cancel	Image Capture	
Templates Enro		Save SELECTED items ONLY? X	AE2510	×	Templates Enrolled: 1-	IOUS Cancel
Enroll	Identify Verify	Answer YES to save only the selected items,	<ul> <li>Save as a RAV</li> </ul>	V template?	Enroll Identi	ify Verify
paytech		otherwise ALL items will be saved.			paytech	
		OFLIB(N)	(Y)	아니요( <u>N</u> )		I and the
Delete	Save Select All				Delete Save	
Delete All	Load Clear				Identify operation	
Enroll of "pay	/tech" was successful				Swipe finger on	the sensor
AE2510	🛥 💓 12:15 PM 🏴 🖶		🛃 AE2 👩 🕵 오	章 12:19 🏓 🖶	🦹 AE2 😏 와 오루	i 12:22 🏓 🗟
AE2510	ок ×	AE2510 OK ×	AE2510	ОК ×	AE2510	OK ×
Enter Filenan		Control Image Self Test About	Enter Filename		Control Image Self T	
🔍 My Device	·	Image Capture	. My Device		Image Capture	
C Application			C SmartPayPlusV105		Single Contin	
GPRS	nts 🗁 Program Files	Templates Enrolled: 0 Enroll Identify Verify	<b>■</b> 123		Templates Enrolled: Enroll   Iden	and the second sec
😪 Network	🗁 SmartPayPlu:				paytech	
•	F					
<u>N</u> ame: 123		Delete Save Select All	Name: 123.LTM		Delete Sa	
Type: List Te	mplate Item File (*.L' 🔻	Delete All Load Clear	<u>Type:</u> List Template I	tem File (*.L' 🔻	Match template "p	
					opération	
<b>AE2510</b>	👆 😰 і 12:20 РМ 🏓 🖶	AE2510 😓 💽 > 12:24 PM 🏴 着	🋃 AE2510 🛥 💽 🕨	12:24 PM 🏴 🔁	教 AE2 😏 와 오	享 12:23 ጆ 🖷
452510	OK ×					
AE2510						
rimage Captur	Self Test About					
Single	Continuous Cancel					
Templates Er						
Enroll paytech	Identify Verify					
Delete	Save Select Al					
Delete All	Load Clear					
No-Match	found, Identify operation complete,					
🏹 AE2510	🍃 🛃 오후 2:15 🟓 🖷	1				

User enroll Finger Print and identify.

# 7.7 Camera 1.Exeute

Program execution: Character screen \ Cam\_Demo



# 2. Preview

- . Presses Power buttons from the first screen and with like the second time picture sees in advance, is executed
- . Flash buttons will press and is a possibility flash the reverse sides On/Off.
- . Shot buttons after taking the screen of present time, store in the folder which is designated



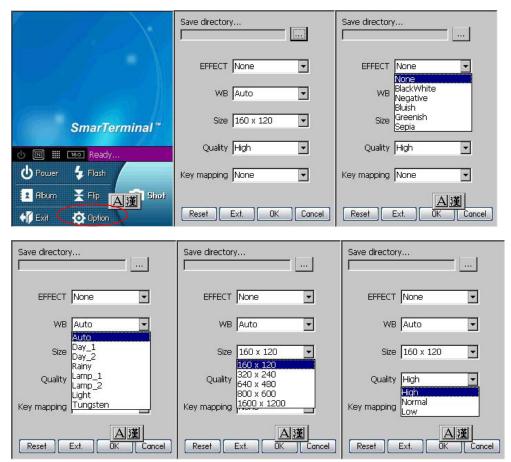
# 3. Album



The third picture will be able to select the format which sees from the album. The second time picture the fact that shows the image and three re-pictures are the screen which list shows the name of file especially from the format which sees.

### 4. Camera Option

The second time picture when pressing Option, is the initial screen. Will select Save Directory and will be able to select the location which will be stored. The location which is set a default is [within system]. The remaining pictures are the items will be able to set this a white balance/picture size etc.



Save directory	
FEFECT None	•
Extension	
Contrast	<u> </u>
Brightness	<u> </u>
ОК	Cancel
Key mapping None	•
Reset Ext.	OK Cancel

### 7.8 Operating System upgrade manual

Please follow the steps below to upgrade the operating system on SmartPay Plus.

1 Copy the OS file of "nkupd.bin" to MICRO SDcard.

<u> </u>	e	<u>E</u> dit	<u>V</u> iew	<u>G</u> o	F <u>a</u> v	R	×
A	.dd	ress \S	torage C	ard			-
	P	older	NKUP	] ]			
27	١s	itora	۵ 🅪 🗈	揱 12:	08 PN	ı 😱	-

2 Insert MICRO SDcard



- 3 . Cold Reset the PDA and then you must press the Power Key for os upgrade over 2 second
- 4. PDA will automatically search for OS to update in MICRO SDCard or SD Card. If there's OS file to update, move to (No.6)
- 5. . Main screen for OS Upgrade.



6	Press "Home key	<i>r</i> " U	ndate start	& Reads	SD Car	d(scnk.bin)
υ.	T TESS TIOTTIE KE	y. U	puale start	a neaus	OD Cai	

SYSTEM SETUP SCREEN	SYSTEM SETUP SCREEN			
1. <home key=""> to SD upgrade.</home>	1. <home key=""> to SD upgrade.</home>			
2. <6 NUM> to Nand Format.	2. <6 NUM> to Nand Format.			
3. <9 NUM> USB Cable Download.	3. <9 NUM> USB Cable Download.			
4. <side key=""> Hive Clean.</side>	4. <side key=""> Hive Clean.</side>			
Build Data : 2010/04/26 Version : SP0.03	Build Data : 2010/04/26 Version : SP0.03			
Loading	Updata OS			

# 7. If there were no OS file you can see below screen



#### 8. OS upgrade done

SYSTEM SETUP SCREEN					
1. <home key=""> to SD upgrade.</home>					
2. <6 NUM> to Na⊓d Format.					
3. <9 NUM≻ USB Cable Download.					
4. <side key=""> Hive Clean.</side>					
Build Data : 2010/04/26					
Version : SPO.O3					
Update OS Done!					

9. Remove SD card when update completed. Execute the HW Reset



### 10. Image booting



11. Check the OS version in Control Panel > System



12 double click System to check OS Version

System Properties 🛛 🕐 🔀				
General Memory	Device Name			
System				
Microsoft?Windows?CE CE 5.0 (SC.1.01.KR)				
Copyright ?2004 Microsoft Corp. All rights reserved. This computer program is protected by U.S. and international copyright law. <b>Computer</b>				
Processor:	Intel(R) PXA255			
Memory:	105788 KB RAM			
Expansion cards	:			
Registered to:				
🐉 💐 System P	💼 12:05 PM 🏓 🖶			

# Chapter 8. Accessories and peripheral devices

### 8.1 Using Stylus pen

The stylus on the PDA is same as mouse on a PC.

Usage of stylus

- 1 Navigate the touch screen display
- 2 Select characters in soft input panel
- 3 Select applications from the desktop or system tray
- 4 Select buttons, tabs, fields and text within applications and editors



CDMA1-X1 (class B) can be used with SmartPay Plus through compact flash slot which is available on rear side.



# Chapter 9. PC Interface

### 9.1 Ms ActiveSync Installation

It is possible to connect SmartPay Plus to Host Pc using synchronization cable.

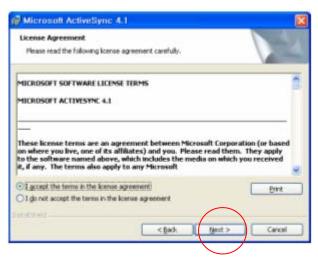
Attach one end of synchronization cable to Sync port which is on bottom side of SmartPay Plus and USB end to host Pc. It is necessary to install Microsoft ActiveSync program.

Following is a procedure to install Ms ActiveSync program on PC.

#### Select "Next"

Microsoft ActiveSync 4.1			
Microsoft ActiveSync 4.1			
Welcome to Microsoft ActiveSync 4.1 Setup	ġ.		1
Click Next to install Microsoft ActiveSync 4.1	t on your cont	puter.	
		$\bigcap$	
	< ((a))	Next >	Cancel

Select "I accept the terms in the license agreement" and then "Next".



Input Username and Organization name and select "Next".

Microsoft ActiveSync 4.1	2
Customer Information	
Please enter your information.	1
User Darrett	
ActiveSync	
Orgenization:	
ActiveSync	
	Back Next> Cancel
	Back Garries Caucial

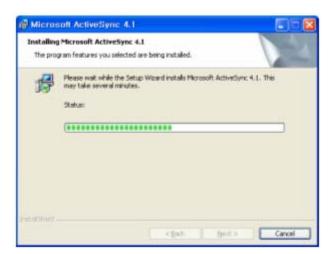
Detect the directory for installation and select "Next".

	Microsoft Active5 rogram Files White		ync₩		Change
Volume	Disk Size	Available	Required	Differences	
	37GB 111GB	7926MB 86GB	23M8 4000K8	7902MB 8668	
	11140	0000	TUAND	0048	

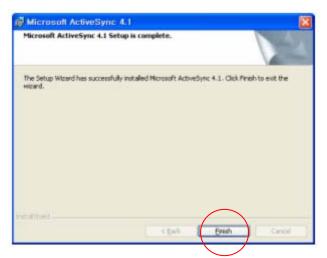
Select "Install".

Microsoft ActiveSync 4.1			E
Ready to Install the Program The wizard is ready to begin instal	ation.		
Setup is ready to begin installing M	krosoft ActiveSync 4.1		
outlives -	< Bak	Install Cancel	1

Installing



Select "Finish" to complete the installation.

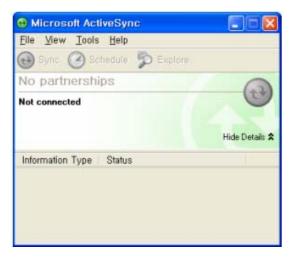


Select "Yes" to reboot the Pc.



### 9.2 USB ActiveSync

To operate ActiveSync program in PC Start > Program > Microsoft ActiveSync



For PC ActiveSync settings File > Connection Settings >

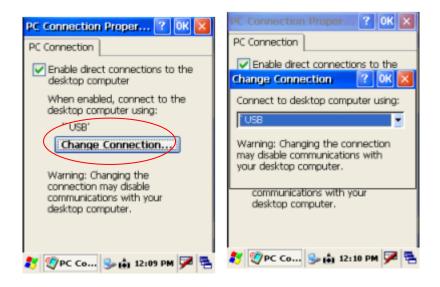
Select between **USB ActiveSync Connections** as per requirement.



In USB ActiveSync connections, check "Allow USB connections" and Select "Ok".



Allow connections to one of the following,



#### Connecting



As soon as the connection is successful following dialog box will be displayed on host PC. To see the files on SmartPay Plus , click on explorer .

🕲 Microsoft ActiveSync	
File View Tools Help	
Sync Stop Details Explore Options	
Guest	
Connected	
Information Type Status	

Also there will be status icon in system tray to show the status of connection between SmartPay Plus and Host PC. User can open ActiveSync program by clicking on the icon.



Data Transfer

Copy & Convert to mobile device format 🛛 🛛 🗙		
Programmer's Guide for ActiveSync		
Conversion (None)		
Copying (from 'Activesync' to 'Activesync')		
	Cancel	