SmartCompact Plus 1D/2D Scanner



Quick Reference Guide

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Head Quarters

SmartPayTech INC.

496 Woncheon-dong, youngtong-gu, Suwon-shi, Kyungki-do, Korea

Tel. 82 -31-211-5596~7 / Fax. 82-31-217-8254

Web. www.sammipaytech.com

Sales Office

1057-3 Namhyun-dong, Goanak-gu, Seoul-shi, Korea

Email. sales@smartpaytech.com

Web. www.sammipaytech.com

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Introduction

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

FCC Information to User

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is con-nected.
- Consult the dealer or an experienced radio/TV technician for help.

Caution

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

FCC Compliance Information: This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation

FCC RF EXPOSURE INFORMATION

Read this information before using your phone

In August 1996 the Federal Communications Commission (FCC) of the United States with its action in Report and Order FCC 96-326 adopted an updated safety standard for human exposure to radiofrequency (RF) electromagnetic energy emitted by FCC regulated transmitters. Those guidelines are consistent with the safety standard previously set by both U.S. and international standards bodies. The design of "SmartCompact Plus" complies with the FCC guidelines and these international standards. Use only the supplied or an approved antenna. Unanthorized antennas, modifications, or attachments could impair call quality, damaged your "SmartCompact Plus", or result in violation of FCC regulations.

Body-worn Operation

This device has been tested for body-worn operation and meets FCC RF exposure guidelines. Body-worn operation is restricted to accessories that maintain a minimum of 1.5cm separation to the body and do not contain metallic components. Use of any other body-worn accessories may not compliance with FCC RF exposure guidelines. For more information about RF exposure, please visit the FCC website an www.fcc.gov

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Chapter 1 Get to know more about SmartCompact Plus

1.1 Make sure you have everything

- ✓ SmartCompact Plus main unit
- ✓ Stylus Pen
- √ Standard battery pack (2200 mAH Li-ion)
- ✓ Power adapter
- ✓ Power cord
- ✓ Synchronization cable (USB cable)
- ✓ Backup battery 110mA Lithium-ion (Embedded)
- ✓ CF card cover

Optional accessories

- ✓ Docking station (Desktop and vehicle)
- ✓ Protective carrying case
- ✓ UHF or HF RFID Gun reader
- √ Synchronization cable (Serial)
- ✓ 3300/4000mAh Lithium-ion

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1.2 Appearance

1.2.1 Front side



Features and description

Features	Function / Description
LCD touch screen	It shows the running application and desktop,
display	Stylus can be used to select the application and inputting data on
	touch screen

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1.2.2 Rear side



Rear panel features

Name Function	
Stylus pen	To use for touch screen
Internal speaker	To output audio signals
Hand strap	To hold SmartCompact Plus unit
Main Battery	To give Dc power to SmartCompact Plus
Battery lock switch	To lock/unlock battery pack
Backup battery on/off switch	To turn backup battery on/off
Detachable hand strap end	To detach hand strap easily for battery change
IrDA Sensor	To communicate with other devices using infrared light
Camera	To Camera lens
Product label	To display model name and serial number

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1.2.3 Top side



Features and description

Features	Function / Description	
1D Scanner window	While scanning the scanner beam is emitted and absorbed	
	through this window	
Slot cover	To protect the slot from dust	
CF slot	To host CF peripherals	

1.2.4 Bottom side

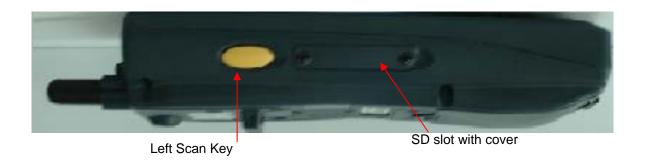


Features and description

Features	Function / Description
DC input jack	For DC power adapter connection to charge the batteries
I/O port	To connect to other devices using synchronization cable

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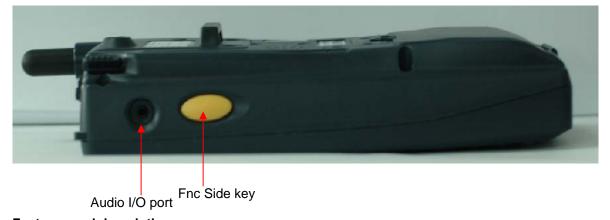
1.2.5 Left side



Features and description

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

1.2.6 Right side



Features and description

Features	Function / Description	
Right Scan key	To scan the barcode user should press this key also known	
	was hardware scan key.	
Audio I/O port	To connect headset with microphone for audio signals in / out	

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Chapter 2 Hot Keys

2.1 Front panel with 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 (Orange)	To turn SmartCompact Plus (sleep / awake) and LCD backlight on/off
ESC key	Functions same as "Esc" key on keyboard in windows mode.
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 (Yellow)	To switch to alphabet mode
Function key (Blue)	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 etc) in editor window
Home key	To clear desktop
	In function mode to turn wireless on/off.

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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
<0>	Fillis number o on editor screen	To open application 4 or defined application	editor screen
<7>	Prints number 7 on editor screen	Functions as "+" key on	To print p/q/r/s on
	T Till S Tidlibel 7 on Callor Screen	keyboard	editor screen
		Noyboard	Santar Sorean
<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 (Left)	Blinking blue – Low battery (below 10%)
	Green – Fully charged
	Red – While charging
Wireless LAN indicator LED (Right)	Blinking green - Wireless LAN on
Scanner LED (Top)	Red - Scanner result (error)
	Green - Scanner result (success)

2.3 Rear panel with keys



2.4 Rear panel keys description

Name Function	
Reset key	To perform warm and cold reset
Pistol key	For bar code reading when pistol trigger is pressed

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Chapter 3 Power settings and connections

3.1 Pow er management

SmartCompact Plus works on DC power.

A standard lithium ion battery pack (3.7V, 2200 mAH) is provided for Dc power input to SmartCompact 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 SmartCompact 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 5 V/ 3A DC output is provided with power cord.

Note: Never use SmartCompact Plus unit without main battery.

3.2 Install batteries in SmartCompact Plus

Detach the hand strap end on rear side of SmartCompact 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 SmartCompact Plus units.

3.3 Battery charging using power adapter

Connect power cord from AC power supply to AC adapter/charger.

Connect Ac adapter to SmartCompact 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 Backup Battery on/off switch

Backup battery on/off switch is provided to turn backup battery on/off. When the SmartCompact-Plus unit is dispatched from the factory, the switch is turned off for backup battery power saving. To turn the switch on/off use stylus pen pointed top.

On position – Up

Off position - down

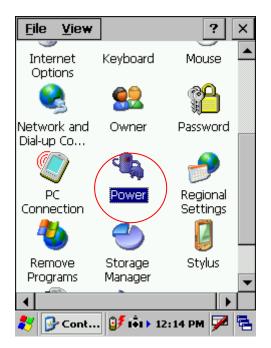
3.5 Power settings on WIN CE

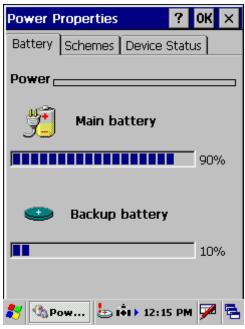
To check the battery status

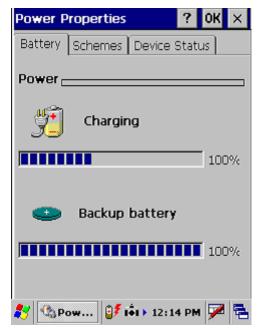
Start > Settings > Control panel > Power > Power properties > battery > power (main battery / backup battery)

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

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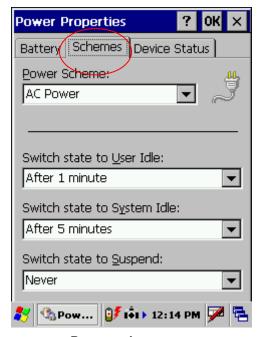


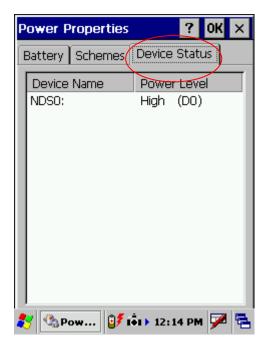


A wake mode w

hile charging

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Power schemes

Device status

3.6 Turn on SmartCompact Plus

Check the backup battery switch position, to turn on SmartCompact Plus unit it has to be up position.

Use stylus pen to turn it on.

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

3.7 Turn off SmartCompact Plus

To power off SmartCompact 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.

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Chapter 4 Operation modes

4.1 Normal mode

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

4.2 Suspend mode

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

SmartCompact 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 SmartCompact 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 > schemes > battery power



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

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

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Chapter 5 Resetting SmartCompact Plus

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

5.1 W arm 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).

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 SmartCompact – Plus stops working.

Follow the instructions below for the cold reset

Method 1

Press and hold function key, and then press software reset key simultaneously, till handheld starts rebooting.



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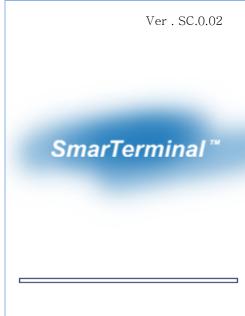
Method 2

- 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.









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5.3 Difference between cold and warm reset

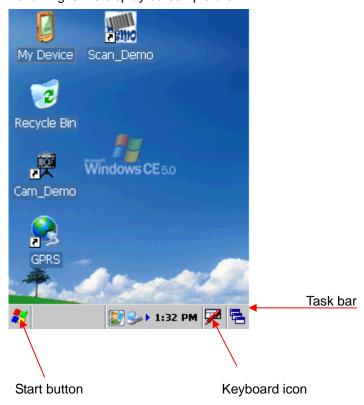
Topic	Warm reset	Cold reset
Reason for reset	If application hangs	If operating system locks up and
		warm reset does not work
Refresh status	It closes all applications	It closes all applications
	Preserves file system	Refreshes RAM
		Clears Files too
Procedure to	One touch of software reset button	One 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

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Chapter 6 Configuring SmartCompact Plus

6.1 Main Display screen description

Following is the display screen picture



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 SmartCompact 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 submenus

Favorites > User can set the internet favorites and the necessary programs

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Documents > list of latest open documents

Settings > Control Panel

Network and Dial-up connections

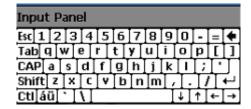
Taskbar and start Menu

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.



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

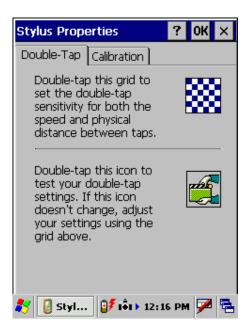
Start > settings > control panel > stylus icon > Double tap / calibration

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. There is one more way to calibrate, press Function + Enter key.



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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



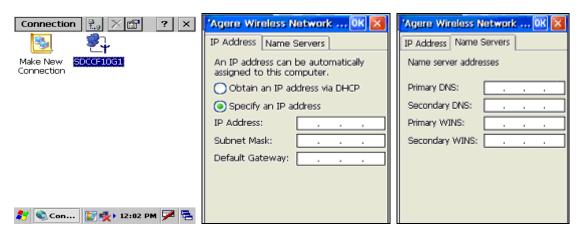
For IP address

Obtain an IP address via DHTP (Dynamic host configuration protocol) > to get automatic IP

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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.



6.4 Setting up GPRS/GPS/CDMA/GSM Compact Flash card (OPTION)

Before installing the GPRS card it is necessary to sign up for GPRS data service with local wireless carrier. Also get a SIM card that plugs into the CF card before installing it in SmartCompact Plus. Generally common GPRS CF cards are using serial interface so it is not necessary to install any extra driver since they can use already available PCMCIA driver.

Note: If need to use very unique type GPRS card, please install the driver provided by manufacturer.

GPRS CF card can communicate immediately after plug in.

Follow the instructions given below for using GPRS CF card.

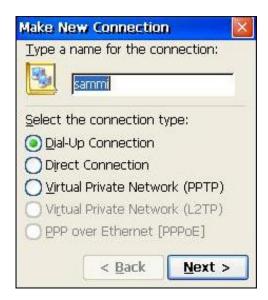
1) Select Start> Settings > Network and Dial-up Connections > Make New Connection



2) Click on Make new connection

Type name of the connection and select Dial-Up connection and select Next

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3) Select Modem type from the list as GPRS_Modem and Select Next



Tap on Configure to change the Port setting, Flow Control and Call Options as follows

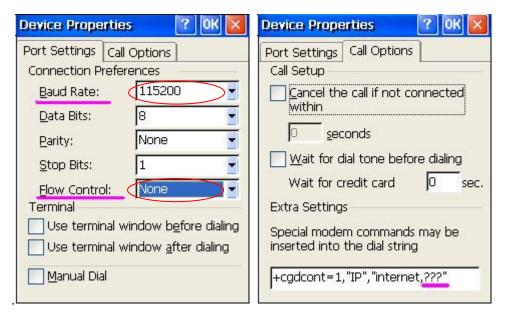
Enter Baud Rate - 115200

Flow Control - None

Extra settings -- +cgdcont = 1,"ip","internet", "yyyy"

Note: Each company provides the different setting value. You need to check "+cgdcont" value with the SIM card company.

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4) Enter Country and area code, phone number and Click Finish. The area code is not mandatory.



5) To connect to The GPRS network, double click on the new connection created

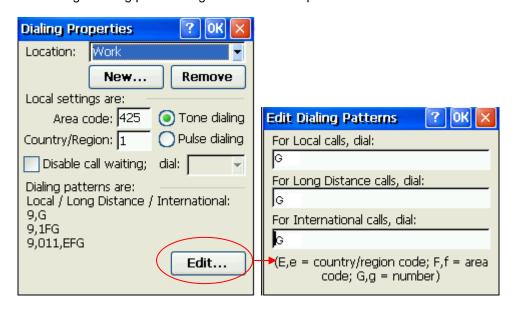


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6) If the SIM card is purchased from other countries, please put the user name, password, and domain.



7) Change the **Dialing properties** as per the requirement Click **Edit** to Change Dialing patterns e.g. Enter **G** for all options



8) After successful connections following screen will be displayed.





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6.5 Volume / sound control

In Function mode Right and left navigation keys can be used to use to increase and decrease the sound.

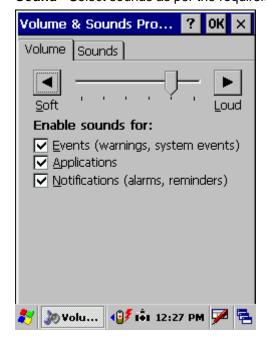
User can check the sound intensity with the background sound which is generated while increasing and decreasing the volume through application

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.





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6.6 Date/T ime settings

In order to set date and time do the following

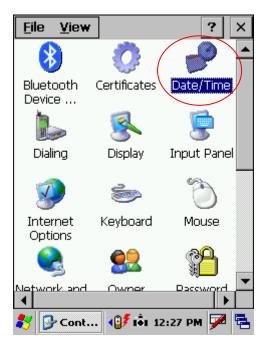
Method 1

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.





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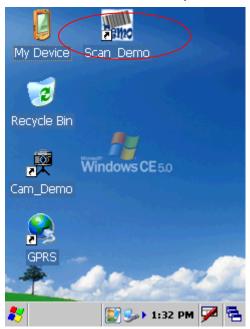
Chapter 7. Applications and operations

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

- 1 Execute the application for bar code reading
 - > 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

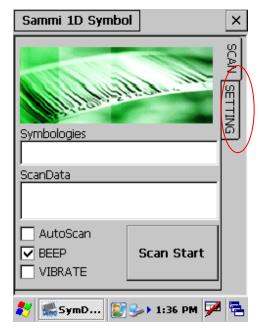
If there is an error, repeat the procedure till the barcode gets successfully read

Correct scanning method

Wrong scanning method

ation settings

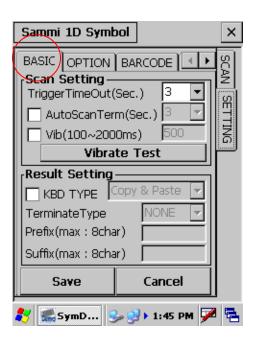
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Before you begin

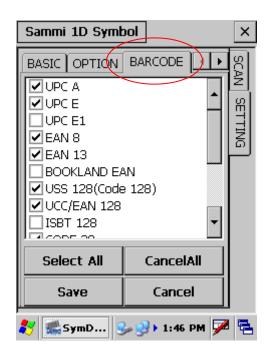
This Application consists of the following 5 Tabs.

- 1. Basic -- Changes the default settings of Barcode scanner.
- 2. Symbologies -- Select the types of Symbologies.
- 3. Detail -- Changes barcode symbology parameter settings in SmartCompact 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.



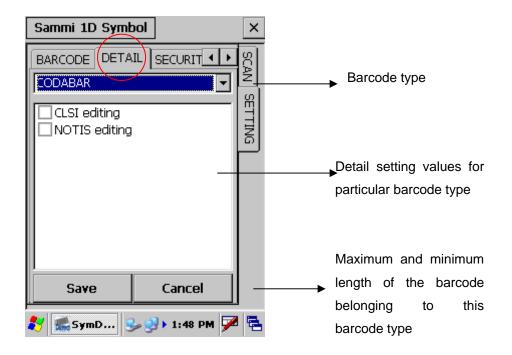
Menu option

Trigger time out	Scanning time	in eccends, which is the waiting time to read a barcade
Trigger time out	Scanning time in seconds, which is the waiting time to read a barcode	
	exactly.	
Keyboard Emulation	There will be no keyboard event after scanning barcode, scanned data	
(Disabled)	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.

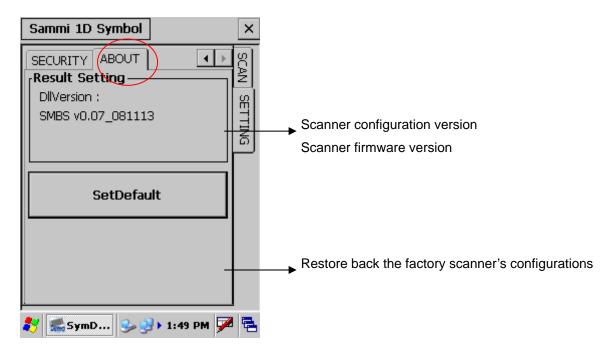
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Options

- - - - - - - - - -		
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)

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Menu Option	Function	
Scan key	To define a scan trigger key (side scan key, HOME key,	
	LEFT key, RIGHT key, UP key, DOWN key, ENTER key)	
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"	

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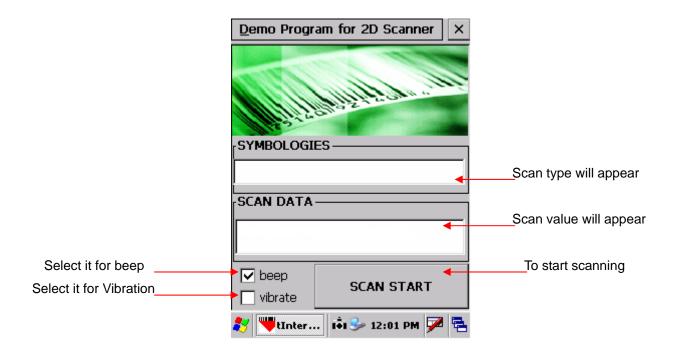
	The selected file name will be displayed in the fill-in above
Default	Will restore back the default sound files for both operations
	success and failure
Vibrate	Select to use vibrate mode on scanning (success/failure)
Vibrate (mille second base)	Time interval for vibration
Setting Vibrate time	To save 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 1D Scanner Sammi 1D Symbol Symbologies 4 8 1 Scan type will appear ScanData Scan value will appear Select it for Auto-scan AutoScan Select it for beep **▼** BEEP Scan Start To start scanning VIBRATE Select it for Vibration ∰SymD... 🗦 > 1:51 PM 📝

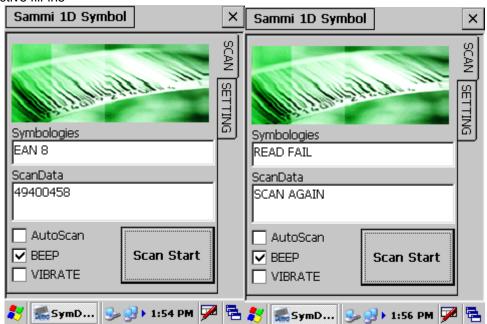
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For Scanning bar code user can either press SCAN START button once or one of the hardware buttons on the left/right side of the SmartCompact Plus unit. The result will be same for both procedures.

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



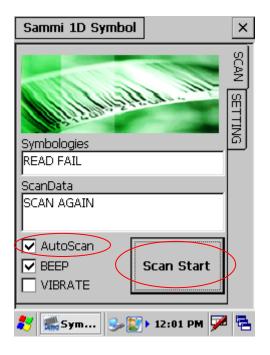
For Beep select Beep checkbox, the specific beep sound can be selected through control panel settings.

For Vibration on success or failure select vibrate checkbox.

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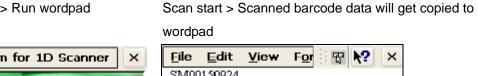
For Auto scan select the auto scan check box. Unless deselected the auto-scan mode will be activated whenever user starts the program.

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







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7.4 Camera

7.4.1 Execute

Program execution: Character screen \ Cam_Demo



7.4.2 Preview

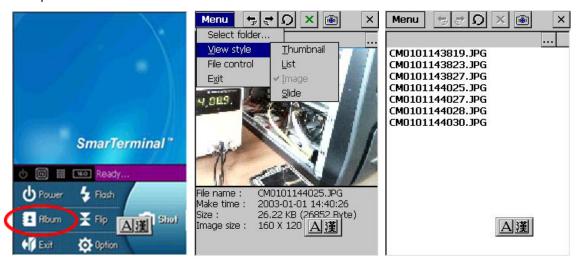
- . Presses Power buttons from the first screen and with like the second time picture sees in advance, is executed
- . Flash buttons will press and is a possibility flash the reverse sides On/Off.
- . Shot buttons after taking the screen of present time, store in the folder which is designated



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7.4.3 Album

Presses Album and like the second time picture and takes in existing and list of the picture files which puts to seem



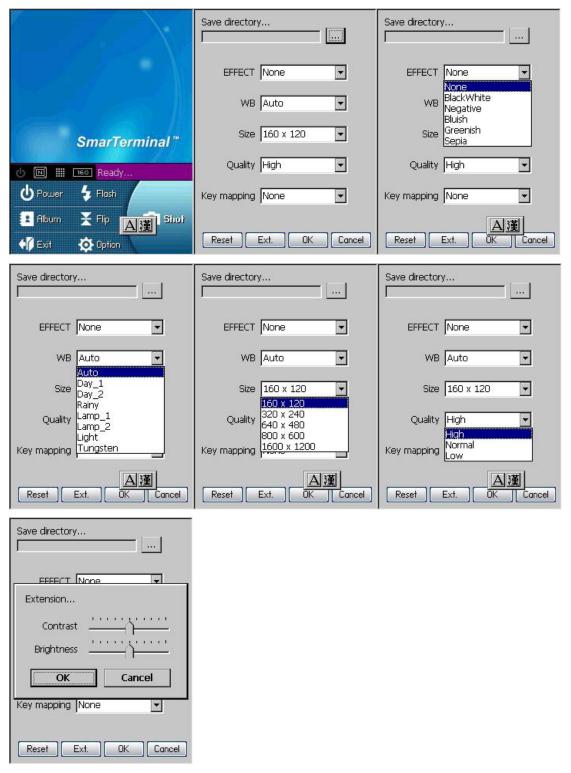
The third picture will be able to select the format which sees from the album. The second time picture the fact that shows the image and three re-pictures are the screen which list shows the name of file especially from the format which sees.

7.4.4 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].

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The remaining pictures are the items will be able to set this a white balance/picture size etc.



7.5 Blueman application program

Blueman supports Bluetooth 1/2 and Blueclass 2 (10 mW) specifications.

Note:

• Maximum only two services can be connected (SPP and FTP, ActiveSync and FTP)

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- SPP and ActiveSync can not be connected simultaneously since they use the same outbound port
- While both SPP and FTP are in use the service search might not be available.
- Whereas the part which is saved automatically in setting is shown in red and others are saved by closing the setting form.
- The class of device of PDA which installs Blueman is applied to Handheld PDA in service on.

7.5.1 Bluetooth application status

- There are 3 types of Bluetooth status; Off, On, Connection
- You can check the current status of Bluetooth in the tray icon as shown below



Blueman tray icon popup menu

By double clicking on Blueman tray icon user can get popup menu as shown in following screenshot



Menu name	Description 0 6:26 PM 🔀 🔁
Turn off Bluetooth	To activate / deactivate Bluetooth
Can discover me	Allow other devices to access PDA using Bluetooth
Bluetooth manager	To manage Bluetooth

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Bluetooth setting	To configure Bluetooth settings
Exit	To exit Blueman application

7.5.2 Bluetooth Manager

Bluetooth manager is used to manage Bluetooth. It has four menus

Connection, tool, list and view

Connection: Allows PDA to access and connect to other devices which support the same services e.g. serial, file transfer and AciveSync service.



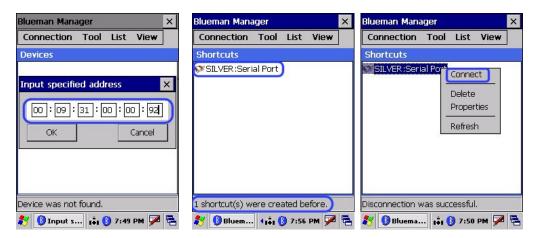
Menu Function	
1 Add serial device with address	To add a shortcut to search and connect serial
	device using its Bluetooth address
2 Scan for serial devices	To search the device with the serial service.
3 Scan for file transfer devices	To search the device with file transfer service
4 Scan for ActiveSync devices	To search the device with ActiveSync service
5 Scan for all devices	To find out all Bluetooth devices

Add serial device with address

This section will enable PDA to search and connect the device with serial service using a specific address. Follow the steps given to search the Bluetooth device:

Enter Specific address Shortcut icon will appear Double click on icon for popup menu

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Select "Connect", the serial service will start with the message "COM8 port was created for SPP client".

Double click same icon for the following popup menu.

Disconnect – To stop the service

Delete - To delete the icon

Properties – To show properties of the service

Refresh – To refresh the current connection or setting information



Scan for serial devices

This is used to create shortcut to find and connect all the devices with serial service.

When Bluetooth address is not known, **Scan for s erial devices** option can be used to search serial devices.

System will automatically Ser vice query screen

Query is finished and serial service

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Search Bluetooth devices with serial service.

list is displayed as follows



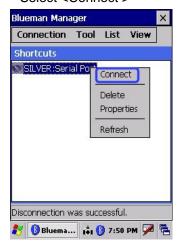
Select specific service &

Select < Create shortcut>



Double click for popup menu

Select < Connect >



Select "Connect", the serial service will start with the message "COM8 port was created for SPP client".



Double click same icon for the following popup menu.

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Disconnect - To stop the service

Delete - To delete the icon

Properties – To show properties of the service

Refresh – To refresh the current connection or setting information

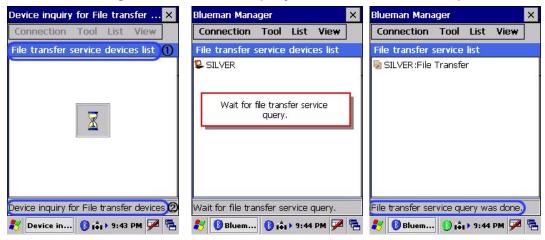


Scan for file transfer devices

Use this section to enable your unit to receive files from another Bluetooth device, or from any device that supports this function (FTP).

Search Bluetooth device: The system automatically searches for a list of Bluetooth devices in the screen that will support a FTP service.



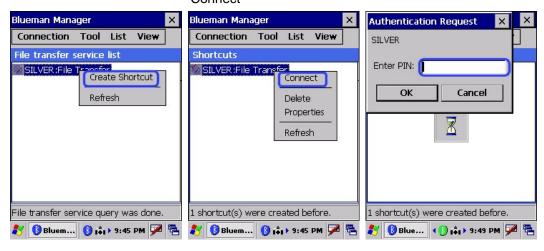


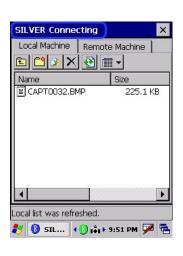
Select device & click create Double click on device icon For security authentification

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Shortcut

to get popup menu, select Enter PIN of the device Connect







Large Icons ✓ Small Icons To go to the upper folder (You cannot go from default folder to the upper folder to prohibit from deleting the system folder.)

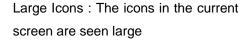
- To Make a new folder
- To Send or receive file

(You cannot download a folder)

- To delete a file

(You cannot delete a folder)

- Refresh



Small Icons: The icons in the current

screen are seen small





To send a file from remote device to local device

- Click the Local Machine tab, which is defined as the default.
- Select the file and then click transfer icon. When the message of "send to remote" pops up. Click "yes".



Status message "Sending file to remote" is displayed during file transfer.



When file transfer is done, you can see the message of "sending file to remote was successful" on the status bar, located at the bottom of the screen.

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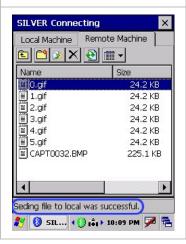


To send a file from Remote device to Local device

- Click the Remote Machine tab.
- Select the file and click "send to.. icon". When the message of "send to remote" pops up. Click "yes".

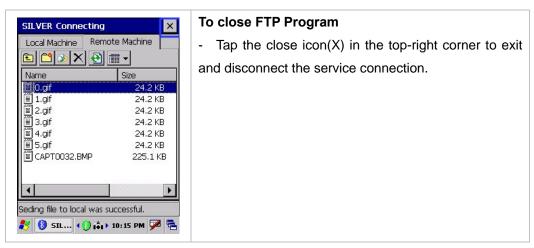


- The message of "sending file to local" is shown in the status bar of screen.



- When the file transfer is done, you can see the message of "sending file to remote was successful" on the status bar, located at the bottom of the screen.

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< file transfer service Function>

** Regarding FTP Host function, enter the agreed pin number for both PDA and other Bluetooth device to make a connection.

Scan for ActiveSync devices

- This section describes how to make a shortcut to search and connect all Bluetooth devices with ActiveSync service.

Search Bluetooth devices which support ActiveSync service

<Device searching screen> < Service query Screen > < List complete Screen >



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Select device & click create Shortcut

Double click on device icon to get popup menu, select

Connect

Message after successful connection







To disconnect the service



Scan for all devices

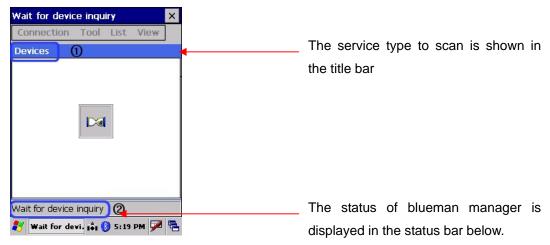
This section describes to search and query all Bluetooth devices respective services. User can make a connection if required.

All Bluetooth devices

When you select this function, you can search and list up all Bluetooth devices with the following procedure.

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To search Bluetooth devices



List of devices which support Bluetooth service



Complete, list of services

Once the service query is

| Concept | Concept

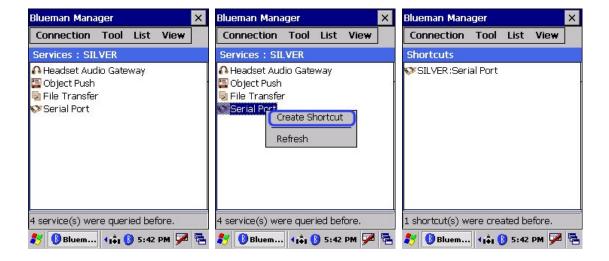
on service icon to display popup

which device supports will be menu and select **Create shortcut** displayed as follows

Press and hold your stylus in the device icon for a pop-up menu, then select "Service Query"

and disconnect the service

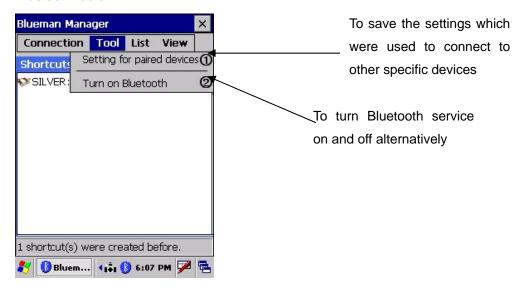




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Tool

This tab enables the device to set the paired status with other device or activate/deactivate the Bluetooth radio.



Setting for paired devices: Follow the steps below to add paired devices

Select Add to scan the

Wait till the list is complete On specific device popup menu select

Device to be paired

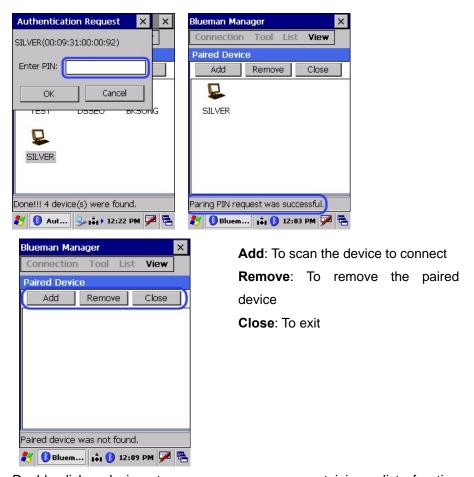
Add paired device to select the device



Enter the PIN

Enter the promised authenticated key in both your device and the relevant device to complete the connection.

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Double-click a device to see a pop-up menu containing a list of actions you can perform like below.

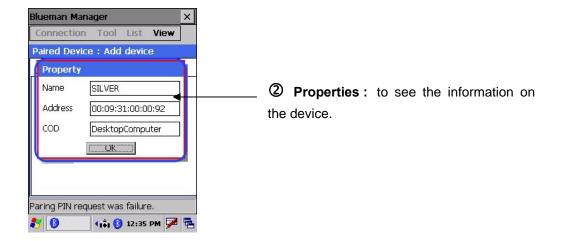


① Add Paired Device: to make the device paired.

② Properties: to see the information on the device.

③ Refresh: to renew the window(N/A)

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Turn on/off Bluetooth

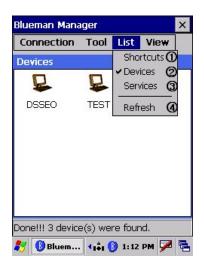
This function allows the radio service of the device to turn on or off.

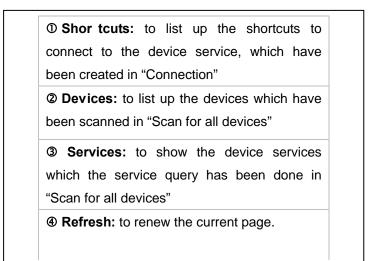


List

This tab enables user to check the scanned device / service, or shortcuts which have been created earlier options.

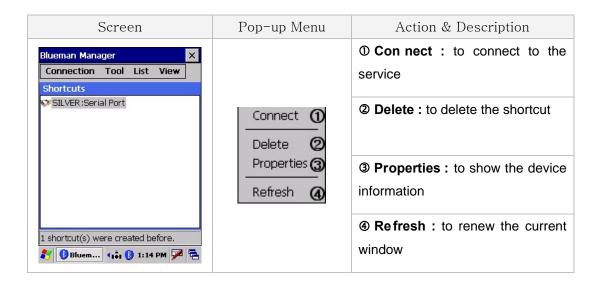
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Shortcuts

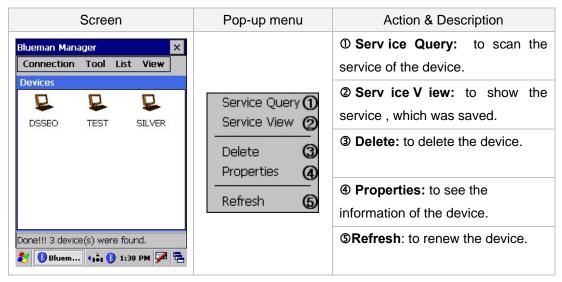
This function shows the shortcut list of device services, which has been created in. **Connection>**. This is available only after you create the shortcut in a connection tab. If not, the message of "?" will appear.



Devices

This function enables user to review the information on the device service or the other detailed information. This is available only after you have searched the devices in a connection tab.

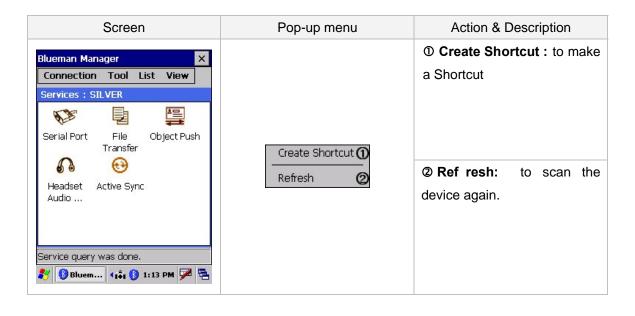
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ervices

This function enables user to view the device service which has a step of service query in "Scan for all devices"

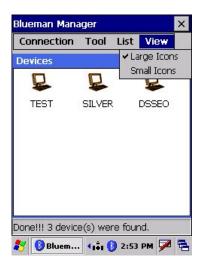
User can create a shortcut of scanned service.



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View

- This tab enables user to control the shortcut display of either large icons or small icons.
 - Large Icons: The shortcut icons in the current page become large.
 - Small Icons: The shortcut icons in the current page become small.





7.5.3 Bluetooth settings

This has four submenus General, Accessibility, Services, and About

General



1) Bluetooth status

- To turn Bluetooth radio on / off

(This is same as on/off in a tray icon or Bluetooth manager)

2) Device Identification

- A. Name: To change the device name
- B. Address: To show the BT address of the device. The device must be on.

3) Device Scan Length

- To control the device (or device name) scanning time.

Accessibility

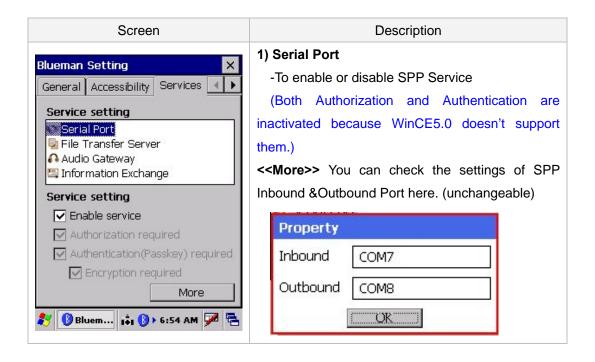
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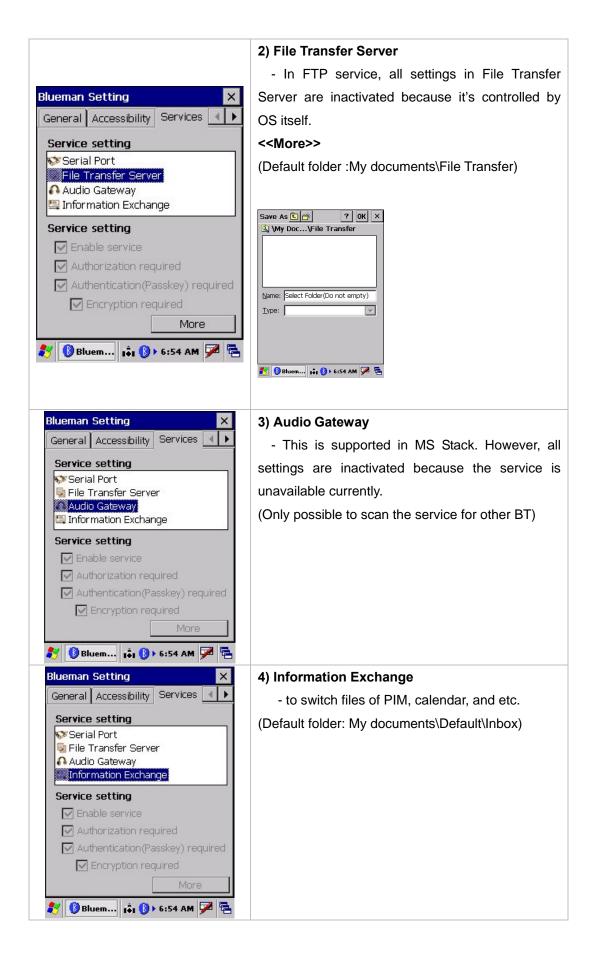
- 1) Blueman setting manager
- **A. Load setting**: To load the saved blueman registration value.
- B. Save setting: To save the current blueman registration value
- 2) Startup List
- **A. Shortcut List**: To establish the shortcut list as a default screen in opening the program.
- **B. Device List**: To establish the device list as a default screen in opening the program
- 3) Accessibility
 - **A. Allo w other dev ices to conn ect**: To allow the service query for your device from other devices
 - **B.** Other de vices can discov er me: If you don't check this, other devices cannot scan your device.

Services

This menu enables you to change the setting values of the Bluetooth service.



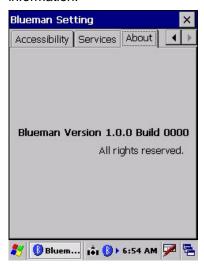
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About

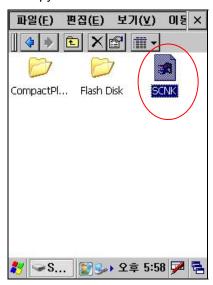
User can view the latest software build version by accessing this tab. Tap ok(x) to exit this information.



7.6 Operating System upgrade manual

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

1. Copy the OS file of "scnk.bin" to SD card.



- 2. Cold Reset the PDA and then you must press the Power Key for os upgrade over 2 second.
- 3. Main screen for OS Upgrade.

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4. Press Up key. Update start & Reads SD Card(scnk.bin)





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

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```
1 SYSTEM SETUP SCREEN

1. < up > to SD upgrade.
2. <DOWN> to SUB upgrade.
3. <LEFT> to Onenand Format.
4. <RIGHT> to Nand Format.
5. <ALPHA> to Hive Clean.
6. <FUNC> to Download only.

Build Data : 2010/04/08

Version : sc0.02

<*>OS File is not Found!
```

6. OS upgrade done.

```
1 SYSTEM SETUP SCREEN

1. < up > to SD upgrade.
2. <DOWN> to SUB upgrade.
3. <LEFT> to Onenand Format.
4. <RIGHT> to Nand Format,
5. <ALPHA> to Hive Clean.
6. <FUNC> to Download only.

Build Data : 2010/04/08
Version : sc0.02

[Update OS ... Done!
```

7. Remove SD card when update completed.

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Execute the HW Reset

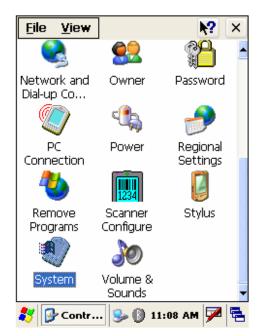


8. Image booting

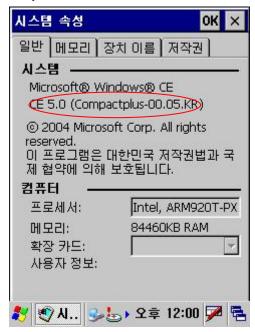
· ·
Ver.SC.0.02
SmarTerminal™

9. Check the OS version in Control Panel > System

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10. you can see the OS Version.



Chapter 8. Accessories and peripheral devices

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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

8.2 Using Compact flash (CF) slot

Compact flash slot available on SmartCompact Plus has possibility to insert CF peripherals (50 pin). The digital platform supports 3.0 V type I/II cards but it can be upgraded to support 3.3 V CF cards. After inserting the CF card it is possible to close the slot with CF close cover. The cover can be changed by removing screws located at the top side of SmartCompact Plus as shown in figure 1.2.3 top side using a small Phillips head screwdriver.

To install CF peripherals

- Before installation, in order to pull CF cards easily out of a CF card slot, a pull-out sticker comes with the CF card package. If an equivalent sticker doesn't come with your card, or your PDA doesn't have an eject button, stick pull-out sticker to pull CF cards e asily.
- In case of closed covers user should remove screws and cover, insert CF cards, close cover and fix the screws.
- There are different types of CF peripherals available in market which can be connected to SmartCompact Plus e.g. CF camera, CF CDMA, CF Bluetooth, CF memory card, GPRS CF card etc.
- For installing drivers for CF peripherals please refer the installation manuals provided with the equipments.

8.3 Using SD (secure digital) peripherals

On the left side of the SmartCompact Plus SD slot is available for SD peripherals insertion.

For Installation open the cover by removing the screws on the left side of the unit.

Insert the SD card in the slot. System should automatically detect the SD peripheral.

To remove the SD card, press back the card and it will automatically come out.

8.4 Using CDMA (Code Division Multiple Access) module (Optional)

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

8.5 Using IrDA port (Infra Red Data Association)

SmartCompact Plus is provided with standard IrDA 1.1 compliant SIR. It can communicate with another device with IrDA port; the distance in which it can operate is 7.8" – 11.8". Microsoft

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ActiveSync is software which can be used for communication.

8.6 Using RFID Gun reader (Portable UHF/HF reader for SmartCompact Plus)

It is possible to connect RFID Gun reader to SmartCompact Plus for UHF and HF tag reading. The Gun reader can be purchased separately. For more details please refer RFID Gun reader user manual.

Chapter 9. PC Interface

9.1 Ms ActiveSync Installation

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

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

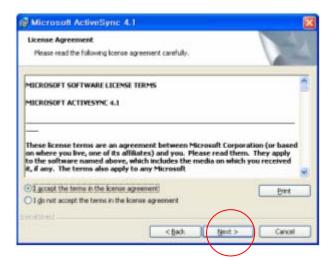
Following is a procedure to install Ms ActiveSync program on PC.

Select "Next"

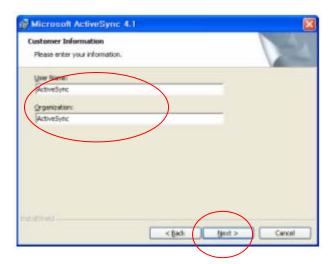


Select "I accept the terms in the license agreement" and then "Next".

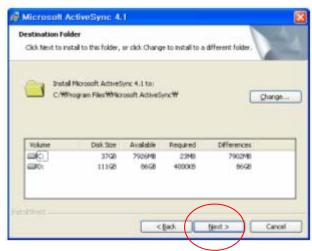
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Input Username and Organization name and select "Next".

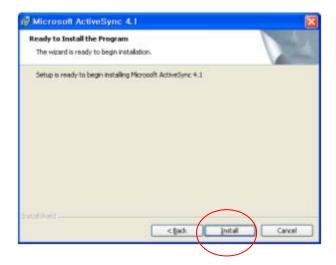


Detect the directory for installation and select "Next".

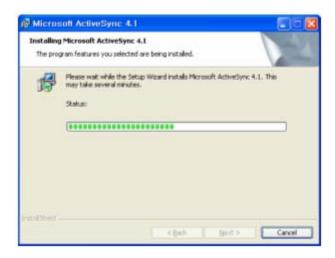


Select "Install".

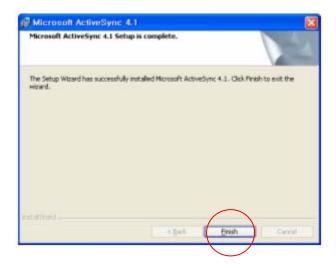
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Installing



Select "Finish" to complete the installation.



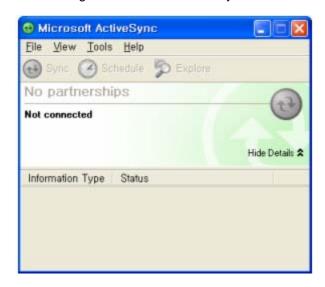
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Select "Yes" to reboot the Pc.



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.



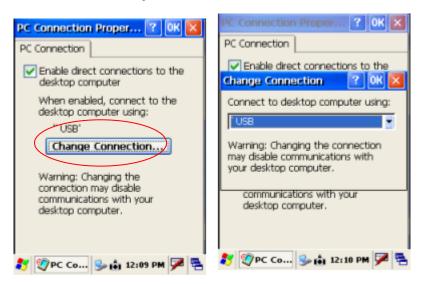
In USB ActiveSync connections, check "Allow USB connections" and Select "Ok".

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PC Connection has to be

USB for **USB ActiveSync Connections**.



Connect ActiveSync cable to PDA and PC for USB and Serial connections

Sync cable



Program > Communication > USB ActiveSync

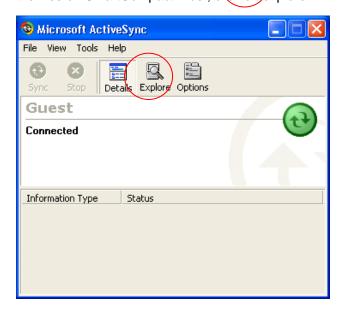
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Connecting



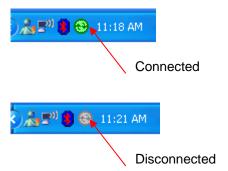


As soon as the connection is successful following dialog box will be displayed on host PC. To see the files on SmartCompact Plus, click on explorer.



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



Data Transfer



Appendix A

SmartCompact Plus Specification Highlights

Physical and Environmental Characteristics

Dimensions: 6.6"

6.6" L x 3.0" W x 1.2 " D (168 mm L x 78 mm W x 33 mm D), 500 g

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Display Diagonal:	3.5" (89 mm) diagonal, 2.2" W x 2.9" L (56 mm W x 74 mm L)
Sealing:	IP 54
Operating Temperature:	+14° F to +122° F (-10° C to +50° C)
Storage Temperature:	-4° F to +140° F (-20° C to +60° C)
Humidity:	5% - 95% non-condensing
Drop Survival:	Withstands multiple 4 ft (1.2 meter) drops to concrete

Performance Ch	naracteristics
Processor:	32bit RISC Microprocessor
System Memory:	128 MB SDRAM / 512MB Nand Flash ROM(MAX 1GB)
Display:	240 (W) x 320 (L) (QVGA) transmissive TFT 256K Color LCD, 80 NIT with resistive touch screen, Sunlight Readable
Keyboard:	16 + 1 alphanumeric keyboard, 2 scanner buttons, navigation, power button, software reset button
Operating System / Software	Microsoft® WinCE .NET 5.0, Internet Explorer, InBox, Async, etc., s/w update from Compact Flash
System Expansion:	Compact Flash Type II Slot (external access, supports 3.3V)(OPTION) SD Card Slot (external access)
Application Development	Microsoft Embedded Visual C++®, Microsoft Visual Studio .NET®, to build web services and applications for the Microsoft .NET Compact Framework.
IrDA:	Standard IrDA 1.2 compliant SIR Support, in – in (20cm – 30cm) distance
Bar-code Scanning:	For SmartCompact Plus-1D 1D, CCD type scanner or Laser type Scanner
	For SmartCompact Plus-2D – 1D, 2D Imager (CCD type scanner)
LED	One triple-color LED for alarm notification / charger indicator. One duo color LED for scanner indicator, One duo color LED for wireless
Audio & vibrator	One mono speaker and one coin type vibrator
USB	Support USB 1.1 Compliant Function(Host & Slave)
Data Capture Characteristics	
Light source:	617 nm Highly visible LED
Scan rate	Decoded operation 500 scans/s auto-adaptive

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Un-coded operation 20	operation 200 scans/s
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Scan angle	40°
Reading distance	Up to 90 cm (35 in)
Ambient light	Works in any lighting conditions
Print contrast	Down to 25%
Decode software suites	For SmartCompact Plus-1D
and symbologies	Codabar, Codablock A & F. Code 11, Code 39, Code 93/93I, Code 128, EAN,
supported	Industrial and Standard 2 of 5, interleaved 2 of 5, ISBT 128, Matrix, MacroPDF
	417 (unbuffered mode), MicroPDF417, MSI, PDF417, Plessey, RSS, Telepen,
	UCC EAN 128, UPC-A and UPC-E

For SmartCompact Plus-2D

2 Dimensional : PDF417, MicroPDF417, MaxiCode, Data Matrix, QR code, Aztec, Aztec Mesas, Code 49, EAN-UCC Composite, Snowflake, Dataglyphs

Linear: Code 39, Code 128, Codabar, UPC, EAN, Interleaved 2 of 5, Reduced space Symbology, Code 93, Codablock F, BC412

Postal : Postnet, Planet code, British Post, Canadian Post, Japanese Post, KIX (Netherlands) post

OCR Fonts: OCR-A and OCR-B

Network Characteristics

Wireless: 802.11b/g 2.4 GHz

Internal Bluetooth Module (Serial interface): Class 2

Remote Modem (WAN): GPRS through Compact Flash Slot

GPS: GPS Module through Compact Flash Slot

Regulatory Approvals

FCC ,KCC, CE

Power Supply

Power and Battery System 2200 mAH Li-ion removable battery (10 operation and 100 standby hours), 5 hour

recharge time

110 mAh rechargeable built in backup battery, holding system data for 2.7 hours

without main battery

1 DC IN jack, power adapter with 100-240Vac, input and 5V/3A DC output

Power Management: Support for Xscale application modes, including Turbo

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(Maximum power 400MHz) , Normal, Idle, and Sleep (Less power 200MHz)

Hot swappable battery – Main battery can be changed without switching off the unit.

Optional: 3000 m AH battery

Appendix B

Version Table

Version: 1	Release Date: 11/30/2006

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