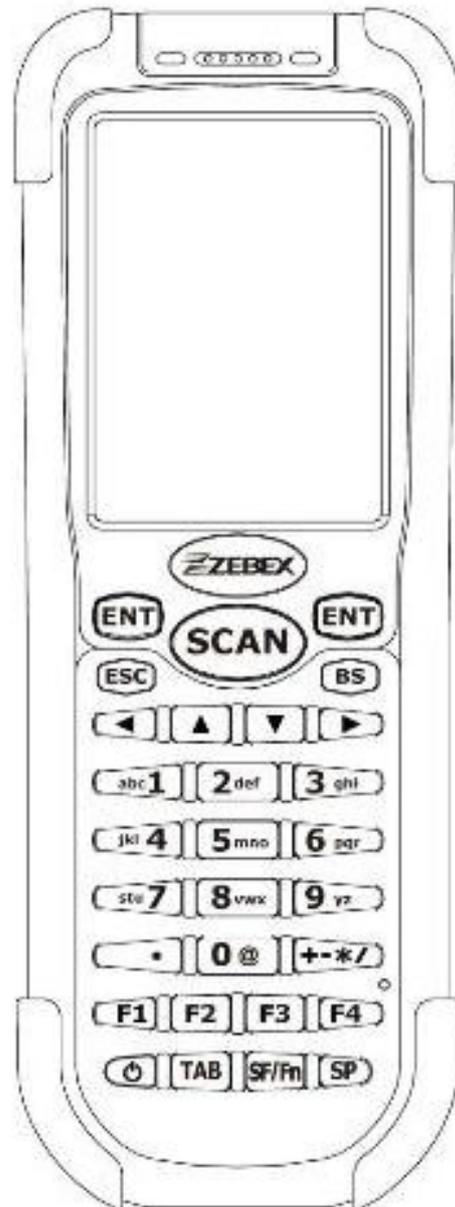


Handheld Computer

# Z-2070 series

(Version 2.0.0)

# User's Manual



ZEBEX INDUSTRIES INC.  
[www.zebex.com](http://www.zebex.com)



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# Preface

## About This Manual

Thank you for your purchase of the ZEBEX Z-2070 handheld computer. ZEBEX Z-2070 product is at the forefront of handheld computer technology, and this manual will provide the necessary information on the many and varied options available to you.

The Z-2070 product is a compact, ergonomic, modular and durable handheld computer. It is designed for easy upgrade with an integrated WiFi wireless communication, 1D barcode scanner and RFID HF solution. The design is complies with IP54 regulations and ideal for the mobile worker as it simple and easy to use anywhere along a supply chain.

## Symbols used in this manual



A triangular shape indicates you should exercise caution.



A circle shape indicates something you should not to do.



A black circle indicates something you must to do.



A note symbol indicates the information is important and you should observe.

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# Safety Information

Your safety is of the utmost importance so please observe and follow the following guidelines that allow you to use the scanner in a safe and responsible way.

## Laser Safety

The Z-2070 series handheld computer complies with safety standard IEC825-1(1993) for a Class 2 laser product. It also complies with U.S.21CFR1040 as applicable to a Class II laser product. Avoid staring at direct laser light as the laser beam may hurt your eyes.



### LASER BEAM

Never look directly into the laser beam. Doing so can cause eye damage.

# Safety Operation

## WARNING



### Disassembly and Modification

Never try to disassemble or modify the device in any way. All servicing should be carried out by qualified Zebex personnel or Zebex- approved engineers.



### Interior Parts and Components

Never touch interior high voltage parts or components. Doing so creates the danger of electrical shock.



### Drop and Knock the Device

Be careful when using the device; do not drop or knock the device as irreversible damage to the unit may occur.



### Extreme temperature

Do not operate the device under extreme temperature.



### Battery and Charger

The use of third-party battery or charger may either damage the device or shorten the life of the device.

## CAUTION



### Dropping and Damage

Should the drop the device and damage it, immediately turn off the power and contact your original dealer or an authorized ZEBEX service provider. Continued use creates the danger of fire and electrical shock.



### Abnormal Conditions

Should the device become hot or start to emit smoke or an original dealer or an authorized ZEBEX service provider. Continued use creates the danger of fire and electrical shock.



### Foreign Objects

Should any foreign matter ever get into the device, immediately turn off the power and contact your original dealer or an authorized ZEBEX service provider. Continued use creates the danger of fire and electrical shock.



### Moisture

Keep the device away from vases, planters, cups, glasses and other containers of liquid. Also keep it away from metal. Water and metal getting into the device creates the danger of fire and electrical shock.

## Federal Communication Commission (FCC) Statement

You are cautioned that changes or modifications not expressly approved by the part responsible for compliance could void the user's authority to operate the equipment.

This equipment has been tested and found to comply with the limits for a FCC Class B digital device, pursuant to part 15B 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 the 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 or more 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 connected.
- Consult the dealer or an experienced radio/TV technician for help.

Operation is subject to the following two conditions: This device may not cause interference;

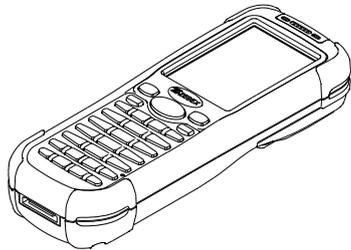
This device must accept any interference, including interference that may cause undesired operation of the device.

## FCC RF Radiation Exposure Statement

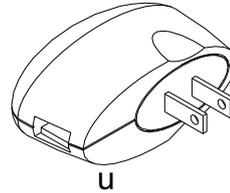
This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. End users must follow the specific operating instructions for satisfying RF exposure compliance. This transmitter must not be co-located or operated in conjunction with any other antenna or transmitter.

# Unpacking

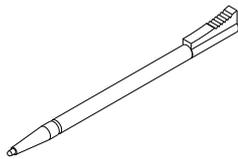
## Package Contents



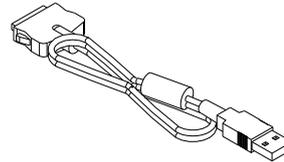
Z-2070 series  
Mobile Data Terminal



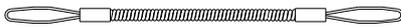
Travel charger  
selection Type: North America/Japan/  
Taiwan/Europe



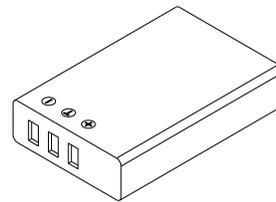
Stylus Pen



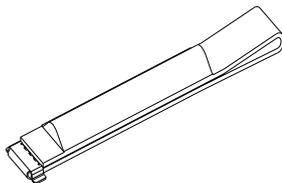
USB cable  
(Terminal connect to PC USB port)



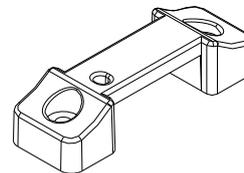
Sling (for stylus Pen)



Battery Pack



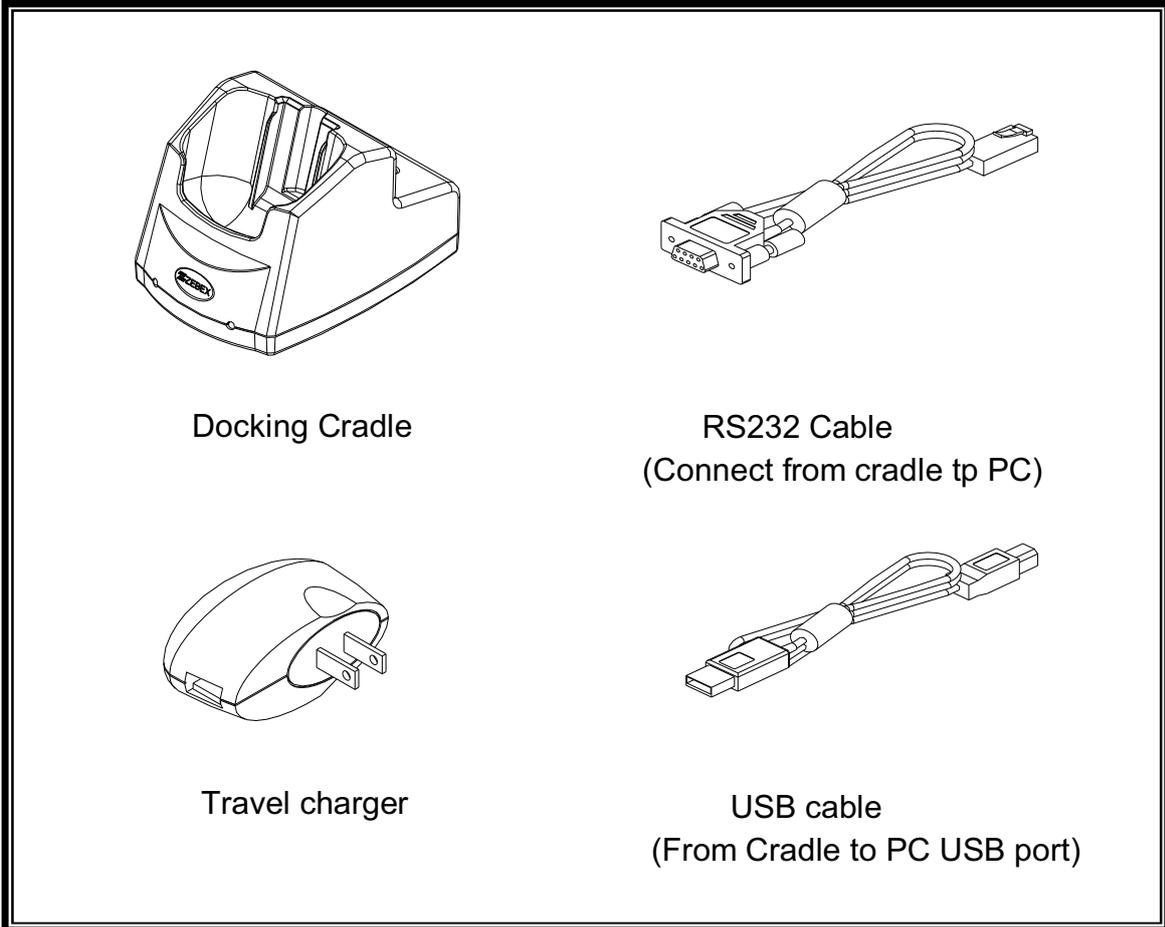
Hand Strip



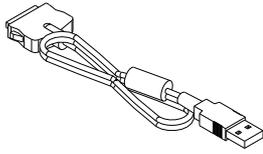
Hand strip Holder

# Optional Parts

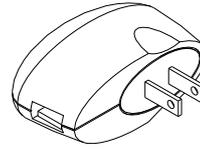
## Cradle package



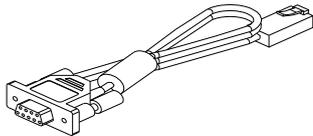
## Purchaseable accessories



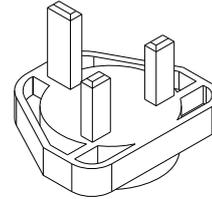
USB Cable  
(Terminal connect to PC USB port)



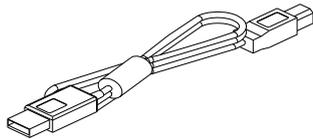
Travel charger



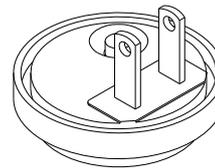
RS232 Cable



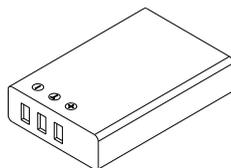
Britain Plug head



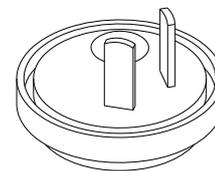
USB cable  
(From Cradle to PC USB port)



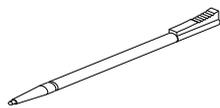
U.S. Plug head



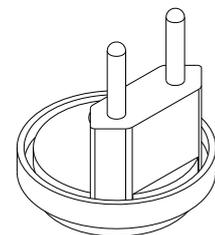
Main Battery



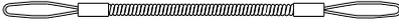
Australia Plug head



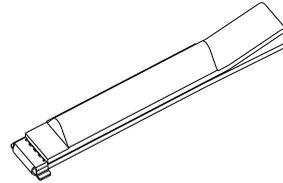
Stylus Pen



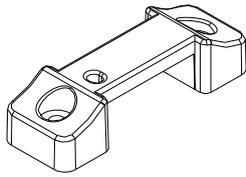
Europe Plug head



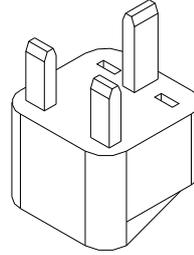
Sling (for stylus Pen)



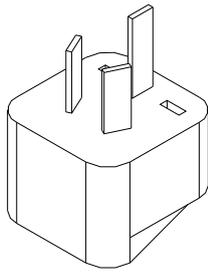
Hand Strip



Hand strip Holder

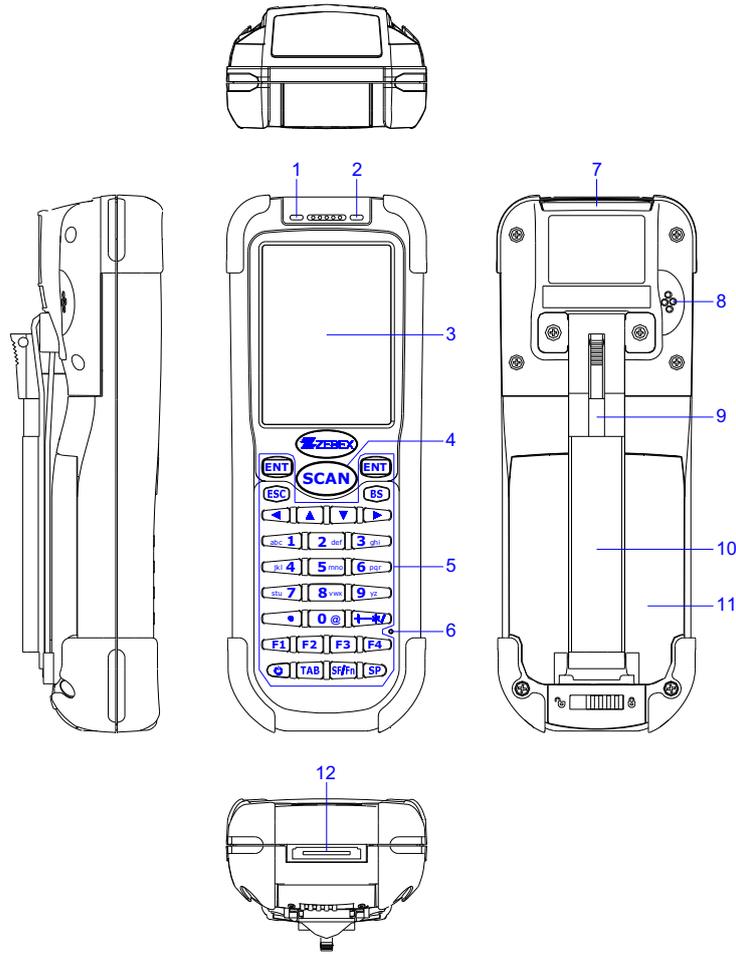


Britain Adapter Head

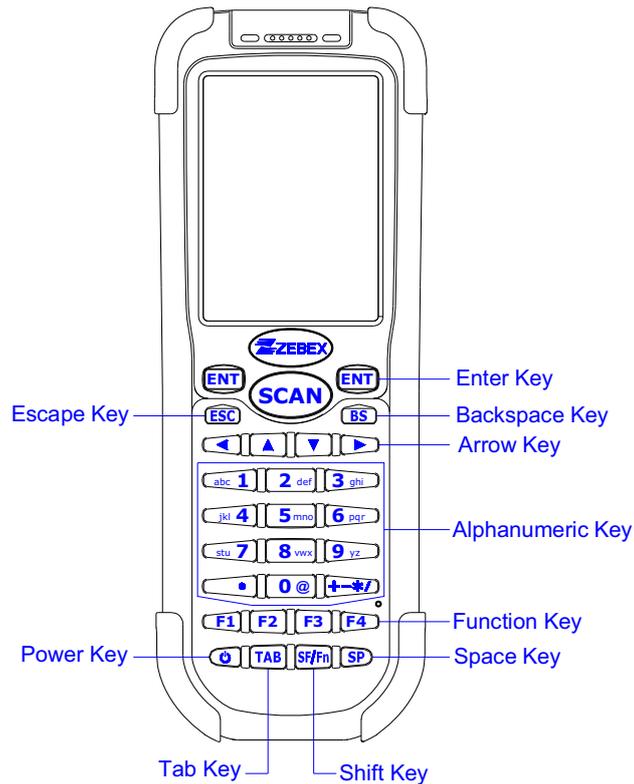


Australia Adapter Head

# General Guide



1	LED indicator (Left)	Indicates the status of read bar code : Green for successful read.
2	LED indicator (Right)	Indicates the status of battery charge : Red for battery just on charging and Green for full.
3	LCD screen	Display various data when a program is being run.
4	Scan button	The trigger of Barcode reading.
5	Keypad	A total of 29 keys are provided to the power and other function keys.
6	Reset switch (inside the hole)	Use reset needle (take off the other side of stylus pen cover) to press the RESET switch located inside the hole.
7	Scan windows	Emits a laser for bar code reading.
8	Buzzer	Outputs operation confirmation tones.
9	Stylus pen	For touch screen operation and needle for press RESET switch.
10	Hand strip	Protects the Handheld Terminal to drop.
11	Battery	Main battery
12	Communication port	Communication with PC or charge by USB port



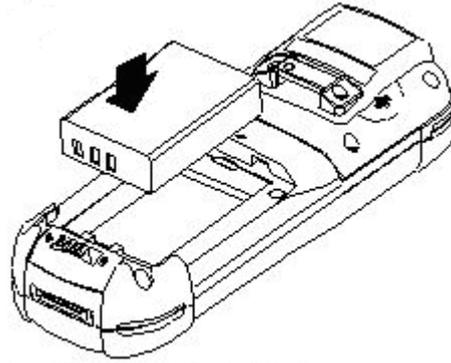
## Using the Keypad

ENT	Enter key	Press to confirm entries or commands.
BS	Backspace key	Press to move cursor and deletes the previous character each time.
Arrow	Arrow keys	Press these to move around the screen.
0-9	Alphanumeric keypad	Press to enter numerical or alphabetical data.
F1-F4	Function keys	Press to access function keys 1-4.
SP	Space key	Press to add a space character.
SF/Fn	Shift key	<p>The key is used in combination with other keys to type special characters or perform other function keys.</p> <ol style="list-style-type: none"> <li>1. Press after SF/Fn key and press Up key to turn the input method into upper alphabetical.</li> <li>2. Press after SF/Fn key and press Down key to turn the input method into lower alphabetical.</li> <li>3. Press after SF/Fn key and press Left or Right key to turn the input method into numerical.</li> <li>4. Press after SF/Fn key and press F1-F4 key to perform F5 - F8 key.</li> </ol>
TAB	Tab key	Press to add a tab indentation.
	Power	<ol style="list-style-type: none"> <li>1. Press to turn the power on.</li> <li>2. Press more then 3 seconds for turn the terminal power off and go into the suspend mode.</li> </ol>
ESC	Escape key	Press to perform a cancel action.

# Getting Started

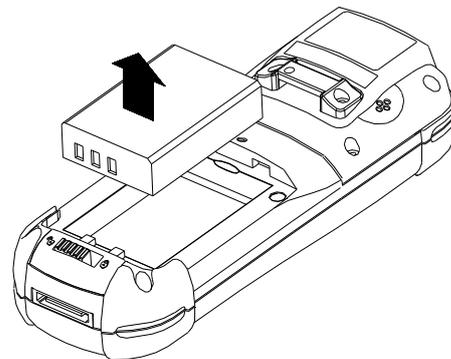
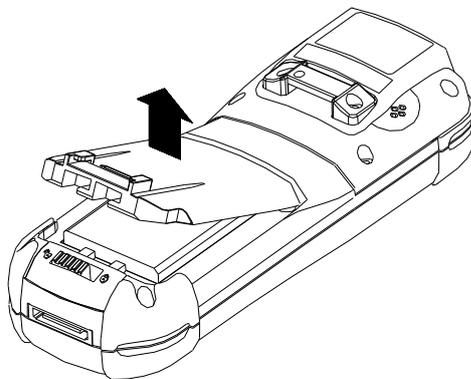
## Inserting the Battery

Insert the battery pack as shown and watch the battery direction..



## Remove the Battery

Push the side lock to pick up the battery pack.

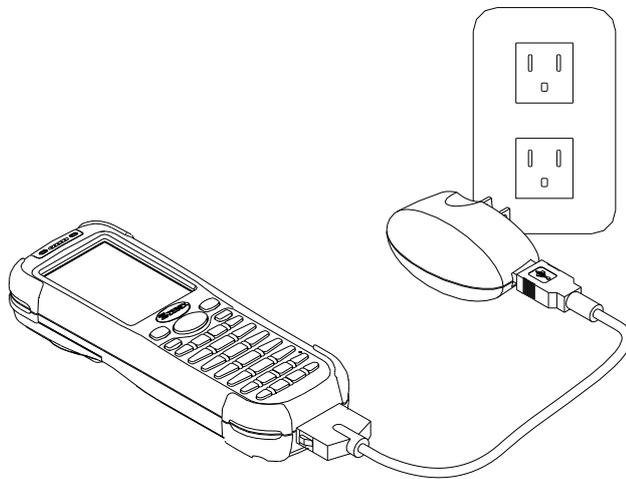


# Charging the Battery

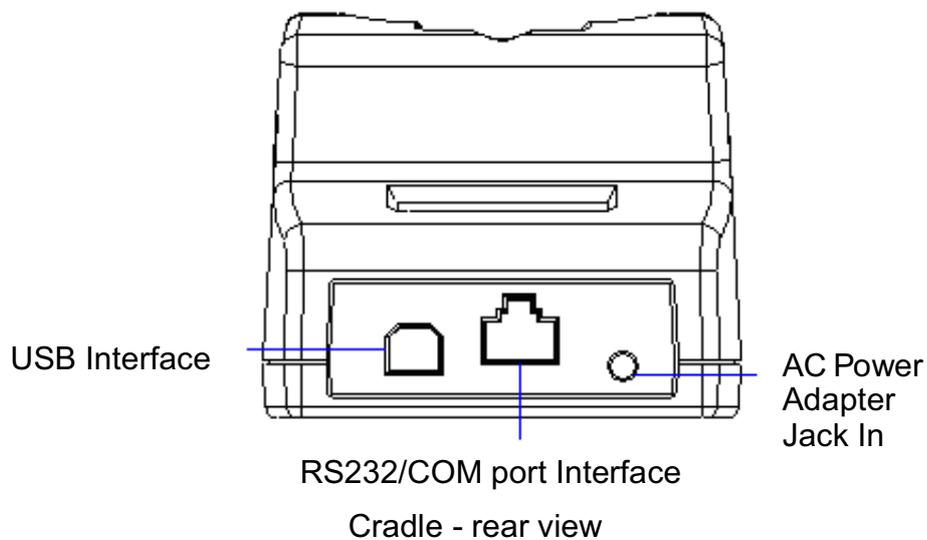
The Li-ion rechargeable battery can be charged while inserted in the device itself or independently via the recharging slot at the back of the cradle.

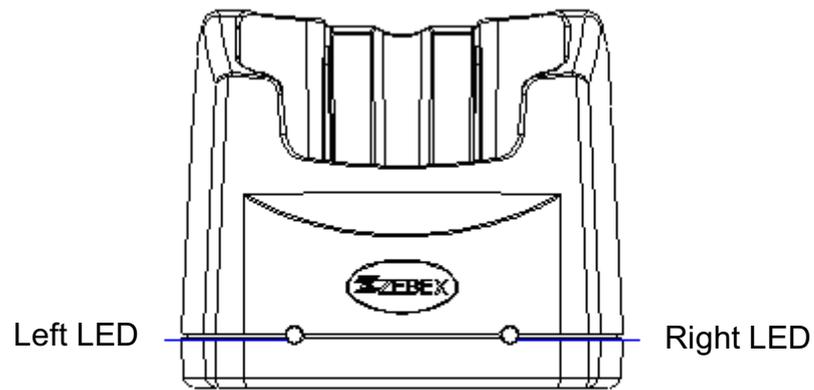
## Charging by cable

Connect the charging cable and USB AC adaptor as shown.



## Charging by cradle



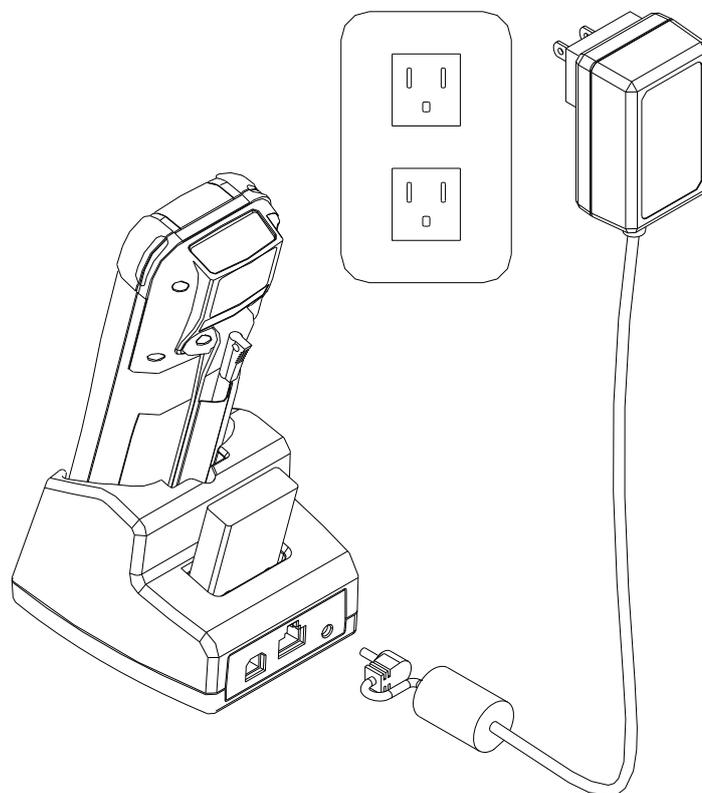


Cradle-front view

## Cradle LEDs

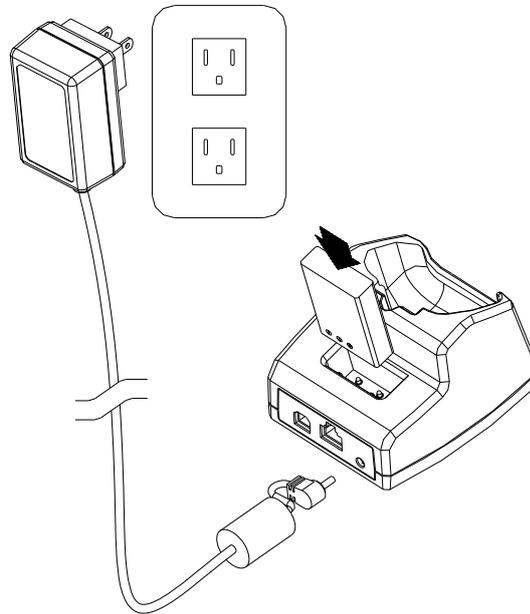
**Left LED -** The LED lit when a battery is inserted into the rear battery slot of the cradle for recharge. It remains lit until the charge is complete.

**Right LED -** The LED lit when the cradle is connected to AC power.



## Charging the battery separately in the cradle

Insert the battery into the compartment at the rear of the cradle.



Connect the power jack to the cradle and plug AC adapter into the socket.



### NOTES

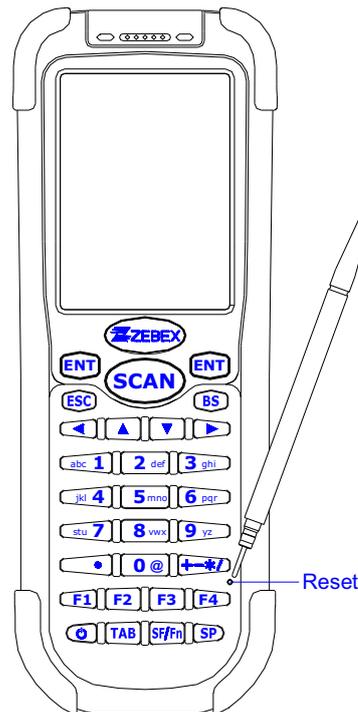
When charging the battery for the first time, charge for at least 12 hours prior to use.

# System Reset

## Using the Warm reset function

Warm reset function allows you to return the device to the default settings, while not wiping all data from the memory.

Insert the needle into the reset hole as shown and press down gently, to reset the device.



## Using the Cold reset function

Cool reset function allows you to return the device to the factory settings, while wiping all data from the memory.

Press down and hold the power key and Insert the needle into the reset hole to cool reset the device.



### WARNING

Cold reset will erase ALL pre-configured data on the scanner. Check carefully to make sure you have uploaded all important files to your PC before proceeding with the reset.

## PC System Requirements

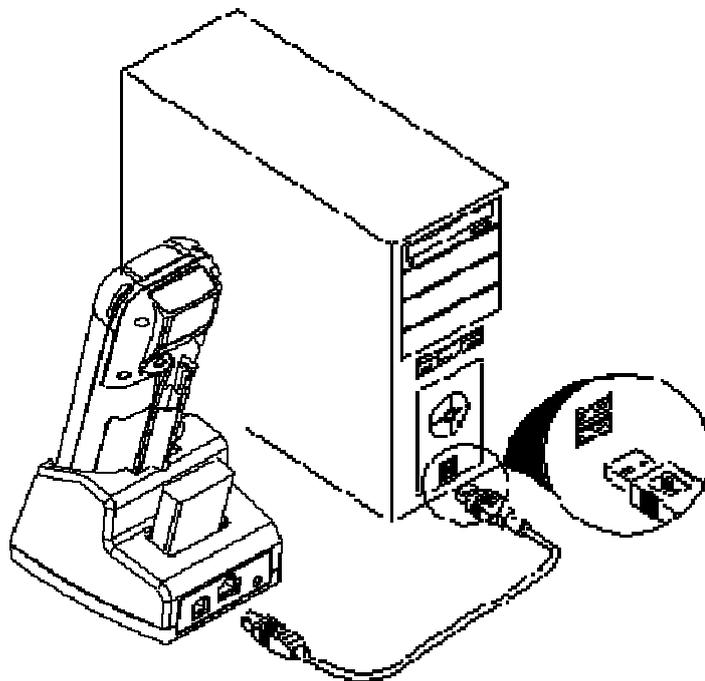
Windows XP Operating System  
64 MB RAM  
50 MB free HDD space  
USB ports communication Interface  
WLAN transmitter (optional)  
Bluetooth transmitter/receiver (optional)

## Connecting To PC

In order to use the software supplied with the Terminal, the mobile data terminal must be connected to a PC.

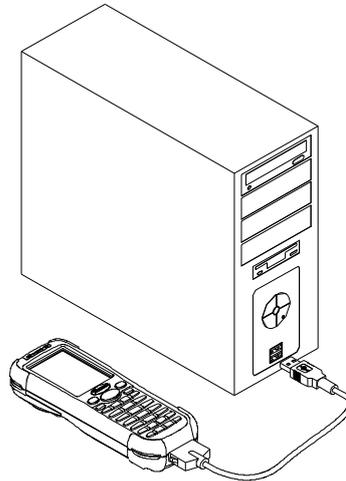
### Connecting via USB Cradle

The cradle must also be connected via one of your PC's USB ports. Attach one end of the cable to the USB interface on the cradle and the other to your PC.



## Connecting the Z-2070 directly via USB cable

You can connect the Z-2070 directly to your PC, without the need for the cradle, using the Mini USB cable, attaching it to the port on the left hand side of the device.



# About The Product

The Z-2070 is a compact, ergonomic and durable portable data terminal. It is designed with an integrated wireless communication and 1D laser barcode scanner, touch screen and 29-keys keypad. The design is ideal for the mobile worker as it simple and easy to use anywhere along a supply chain. It complies with IP54 regulations.

The Z-2070 features a Intel PXA-270 processor (520MHz) with Windows CE.NET version 5.0 operation system. This combination delivers high performance, low power consumption and the diversity of a wireless networking platform. Compared with other systems currently available on the market, Z-2070 is the most cost-effective to offering optimum performance.

## Features

Pocket size design  
Microsoft Windows CE.NET 5.0 operating system  
2.4" TFT color display with touch pane  
Jacket module design, easy to change module of 1D/2D scanner or RFID / GPRS at desire  
Mini SD I/O Slot for extra storage or Wireless solution with IEEE802.11b/g  
Easy system control tools – PowerPack, saving time and cost for software development

## Prerequisites

### Skills Required

The following skills are required by developers aiming to develop application software for the ZEBEX Z-2070 series.

- Windows programming
- Good knowledge of one or more of the following:
  - \* Visual C++
  - \* Visual Basic .NET
  - \* Visual studio .NET
  - \* Visual C#
  - \* Active Server Pages and web programming

The following skills or experiences are also desirable.

- Windows CE devices
- ActiveSync
- Some thing networking experience.

# Specifications

<b>Model</b>	Z-2070
<b>System</b>	
CPU	Inter PXA 270 processor (Max. 520MHz)
RAM	64 Mbytes
F-ROM	64 Mbytes
LCD Display	2.4", QVGA 240 X 320 TFT color panel with touch screen
Audio	One mono speaker
<b>Operating System</b>	Microsoft Windows CE.NET 5.0
<b>Power Management</b>	
Main Battery	3.7V 2,200mAH Li-ion rechargeable battery
Backup Battery	One rechargeable backup battery
Battery Life	8 hours (without wireless communication activated)
<b>Scanning Performance</b>	
Scan Engine	Symbol SE-955 1D laser engine
Light Source	650 nm visible Laser Diode
Scan Rate	100 scans per second
Print Contrast	30% @ UPC/EAN 100%
<b>Decoding Capability</b>	
Barcode Symbolologies	UPC/ EAN/ JAN, Code 128/EAN 128, Code 39, Code 93, Interleaved 2 of 5, Discrete 2 of 5, Codabar, MSI/Plessey
<b>Card Slots</b>	1 x Mini SD I/O card
<b>Communications / Interfaces</b>	
USB	1.1 Client
RS-232	Programmable up to 115,200 bps
WLAN	802.11b/g (optional)
Bluetooth	Build in Jacket
<b>Jacket Selections</b>	1D Laser scanner , 1D Laser scanner + Bluetooth, GPRS with 1D scanner, RFID HF reader
<b>Dimensions</b>	(L) 162 mm x (W) 60.0 mm x (H) 37.3 mm
<b>Weight</b>	Approx. 240 g (battery included)
<b>Environmental</b>	
Operating Temp.	0°C ~ 50°C
Storage Temp	-20°C ~ 60°C
Operating Humidity	10% ~ 70% (non-condensing)
Storage Humidity	5% ~ 70% (non-condensing)
Drop Durability	Withstand 1.5M drop to concrete
Environmental Sealing	IP54 rated sealing
Regulatory Approvals	CE & FCC Part 15B
Cradle	Single slot USB / RS-232 charging cradle with spare battery slot
Software & Development	Microsoft VC 6.0 development environment Supports GUI, database and networking over 1,000 API Emulation software tool for program development and debug

# Using Barcode Scanner

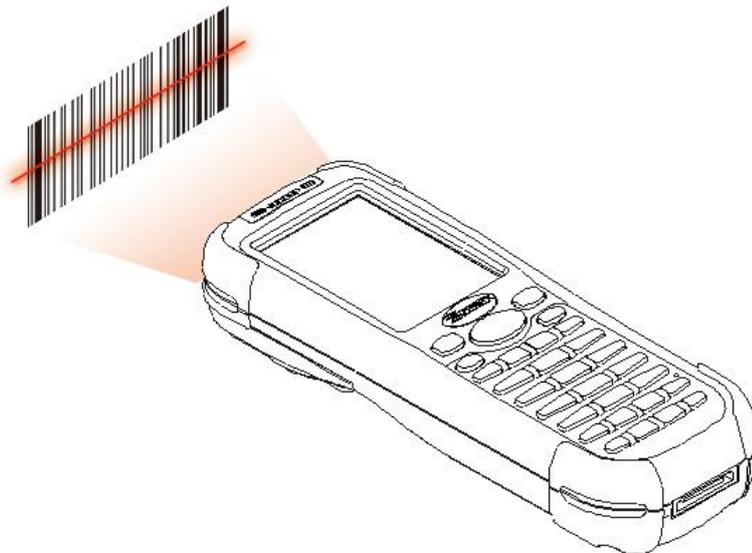
## Scanning Barcodes

The Z-2070 is a highly versatile tool that can scan a wide range of barcodes but it is imperative that it is used in the correct manner.

### To scan a barcode:

1. Hold the Z-2070 horizontally and point it directly at the barcode you wish to scan.
2. Once in the correct position, press the **SCAN** button.

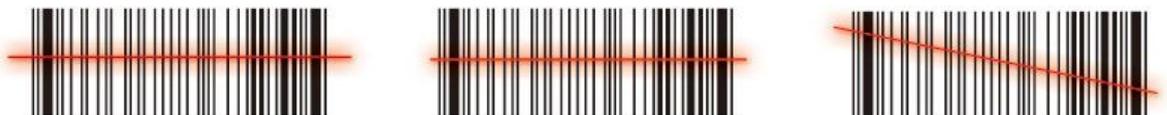
An audible alarm is heard and the barcode digits will appear on the LCD screen if the scan is successful.



### Barcode Scanning Position

This device can read from 30 to 180mm distance.

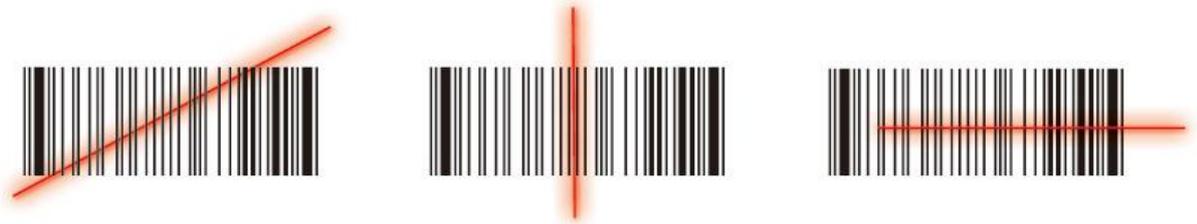
1. Position the laser scanner close to the barcode when scanning small barcodes. And position it is a distance from the barcode when scanning large barcodes
2. The reader can be detected by a red beam.



## Band Scanning Position

Make sure that the bars enter the laser beam when scanning large barcodes.

Scanning operations may fail if the laser beam position as below.



Note: this product scans using laser light. Never look directly into the laser light or shine the laser light into the eyes.

# Using the Zebex PowerPack

To save your time and effort in developing applications on Z-2070, ZEBEX provides its own design system management tool called "PowerPack" to let you control it directly.

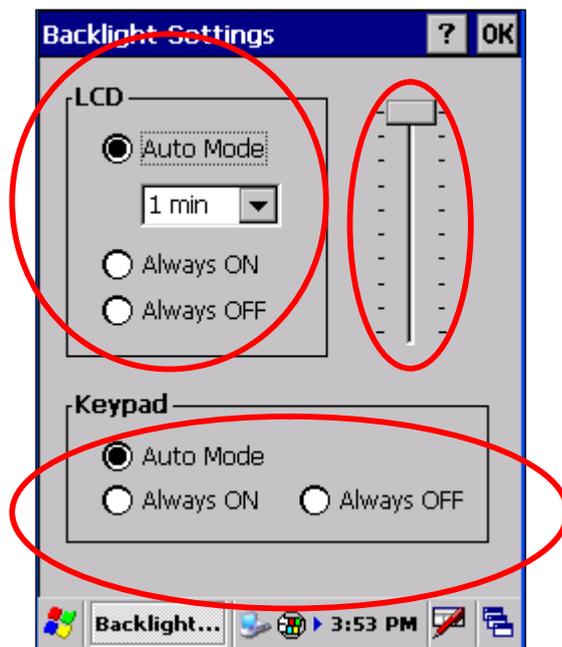
The PowerPack management tools which install in each of our WinCE product. It is free charge for you. We offer several functions for let you control your device without any programming.

## Backlight

This application is set up the Backlight of LCD Panel and Key pad. It allows operators to set backlight duration, and also backlight can be set up as On & Off.

The Backlight Setting screen including 3 parts:

1. LCD
2. Keypad
3. Brightness Control Bar



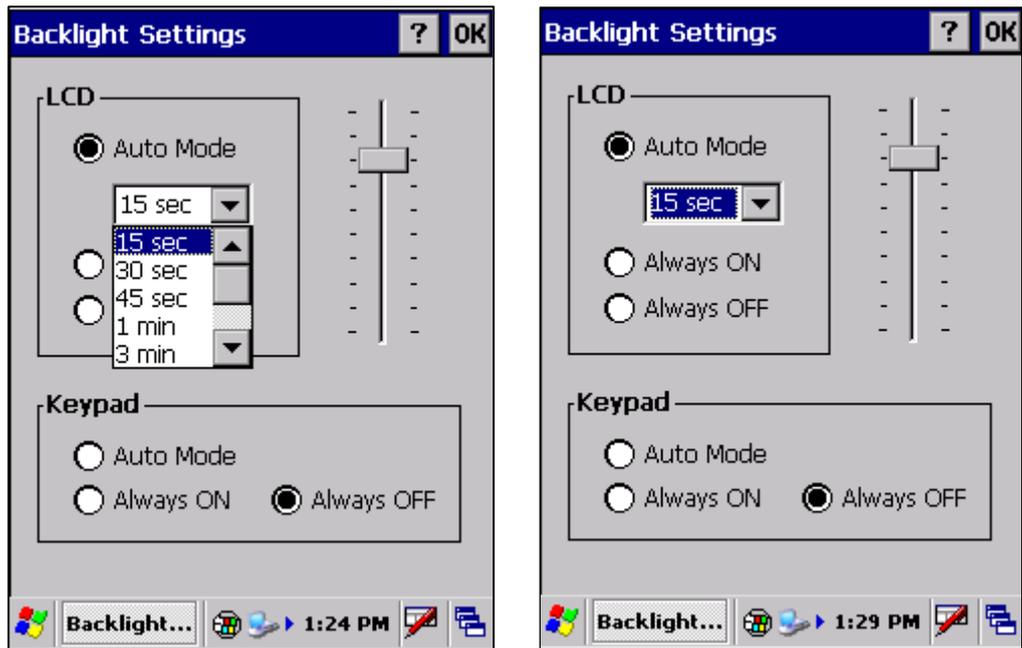
1. **LCD**

The LCD backlight setting.

**Auto Mode:** This function can be set up the LCD backlight to be auto off as Device hasn't been activated for certain interval.  
You can set up the Auto off time from 15 sec to 15 min.

**Always ON:** This function can set up the backlight to be always on  
Until the system into suspend mode.

**Always OFF:** This function can set up the backlight to be always off.



2. **Keypad**

The Keypad Backlight setting.

**Auto Mode:** This function can be set up the keypad backlight to be auto off as device hasn't been activated for certain interval.  
The interval of the time for auto off was fixed on 5 seconds.

**Always ON:** This function can set up the keypad backlight to be  
always on until the system into suspend mode.

**Always OFF:** This function can set up the backlight to be always off.

3. **Brightness Control Bar**

The brightness of the backlight can be changed via control bar. Put up to light and put down to dark.

# Calculator

This calculator function allows operators to add, subtract, multiply, and divide that simply provide basic logistic function in our daily basis.

The upper zone of the display area displays the memory content, and the lower zone is key pad.

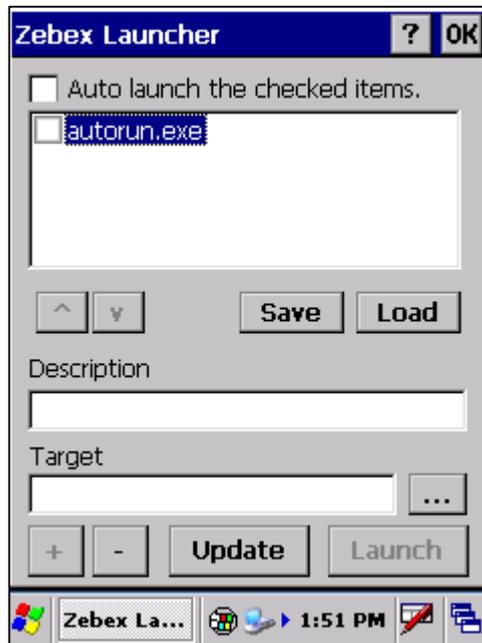


Button description:

- MC : Clear buffer of memory.
- MR : Got the value of buffer.
- MS : Storage the value to buffer.
- M+ : Append the value to the buffer.
- CE : Clear the display area to "0", but keep the value in buffer.
- C : Clear the display and the buffer of memory.
- +/- : Change the value sign form Plus to Minus or Minus to Plus.
- 0~9 : Numeric key.
- / : Division function.
- \* : Multiplication function.
- : Subtraction function.
- + : Addition function.
- . : A decimal point of dot.
- = : To be equal to, The amount.

# Launcher

The Launcher utility is an auto execution program for ZEBEX's WinCE device. You may set programs into the Launcher list box and running the program by automatically or manually.

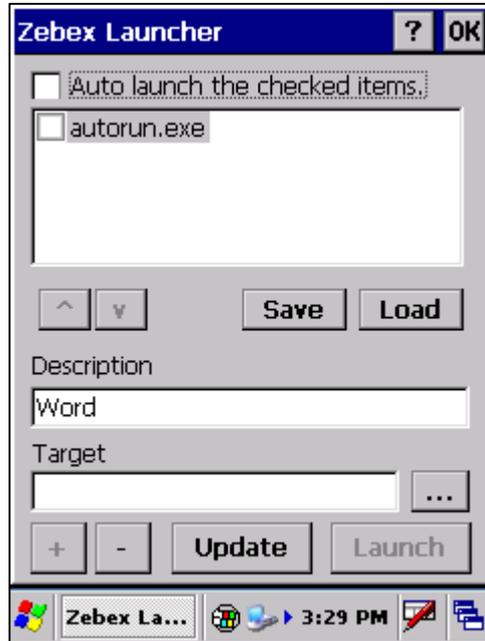


1. Selected the check box of “ Auto launch the checked items.” will running whole programs listed in the box automatically one by one.
2. The “” and “” button is to change the priority sequence of each program. You can use it to arrange the sequence of list according to its running priority.
3. “” dialog is description the function for the program.
4. “” dialog will be showing out the path of file. Click the “” button and selected the target program then click the “OK” button to finish and return to the Auto launch menu.
5. The “” button is for adding a new program into the list by the description of the program. You can not use the same description for difference program.
6. The “” button is for removing a program from the list. After select a program on list, this button will be enabled and click it to remove it.
7. The “” Button is to rename the description and file path for a program. As a program selected this button will be enable, after input the new description name or file path and click this button to update.
8. The “” button is to execution all program on the list right away.

# Launcher Operation

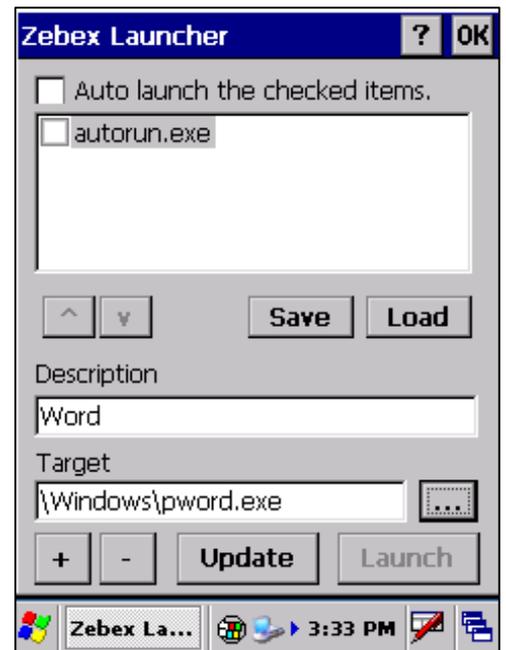
## 1. Create a new program:

### 1.1 Input the description for the program.

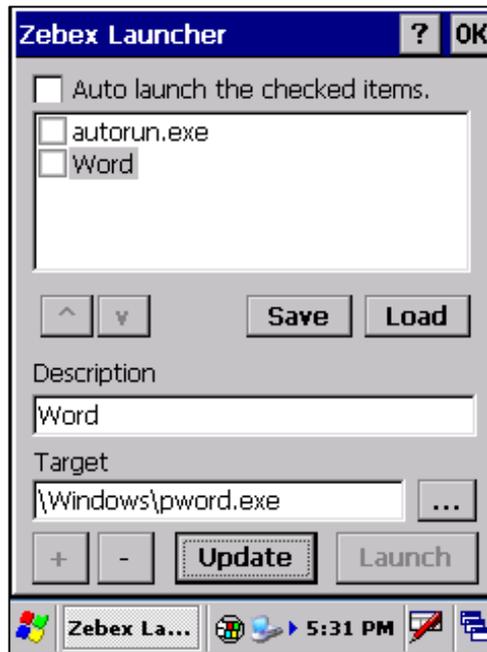


### 1.2 Select the target file.

Click the “ ... ” button and select the program file then click “ OK ” button to confirmed and return back to the Launcher menu.



1.3 Click "+" button to add the program into list box.



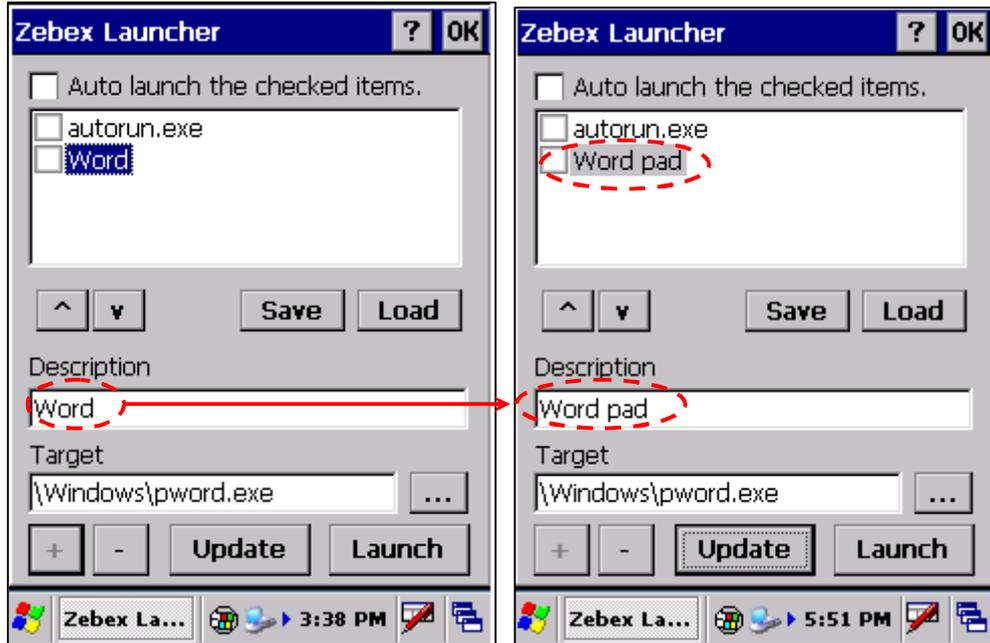
**2. Launch a program:**

Selected the program and click the "Launch" button to execute the program.



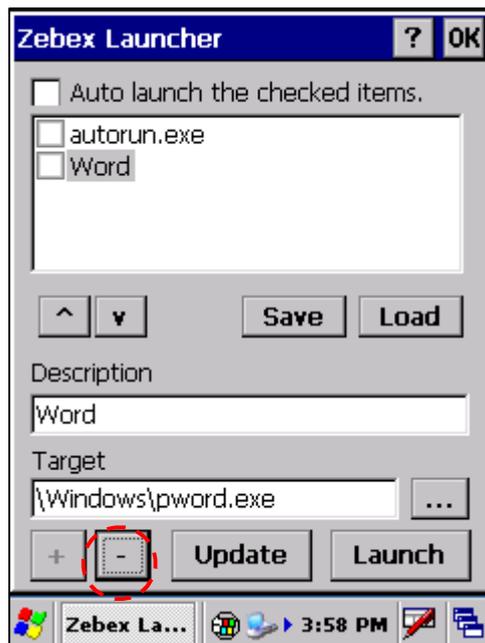
**3. Update the program description:**

Select the program from list box and input the new description on the “Description” field or use “...” button to re-select the “Target” path. Then click “Update” button to confirm the change.



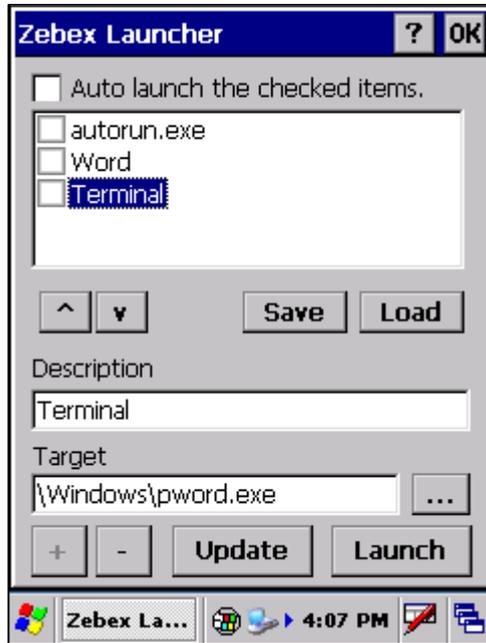
**4. Remove a program:**

Select a program form list box and click the “-” button to remove it.

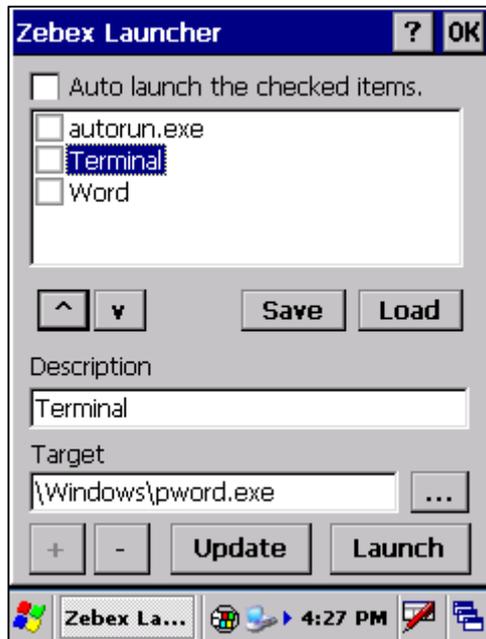


**5. Change the running sequence of program:**

Select the program which is desired to rearrange its running priority sequence.



Click " ^ " or " v " button to adjust the running priority sequence.

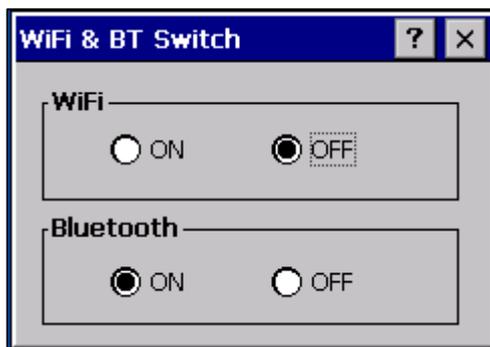


# Switch

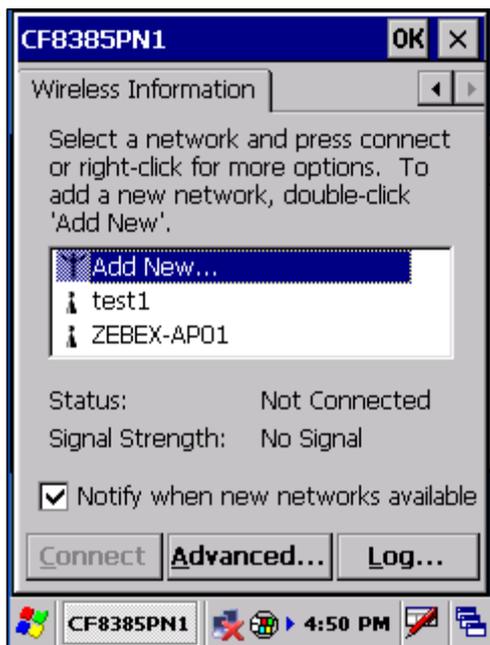
The WiFi & Bluetooth switch utility. This application provides as a switch function to let you easy turn on or off the function and power for WiFi and Bluetooth interface.

To check the “**OFF**” selection from WiFi check box will disable the WiFi function. On the other hand check the “**ON**” selection will enable the WiFi function.

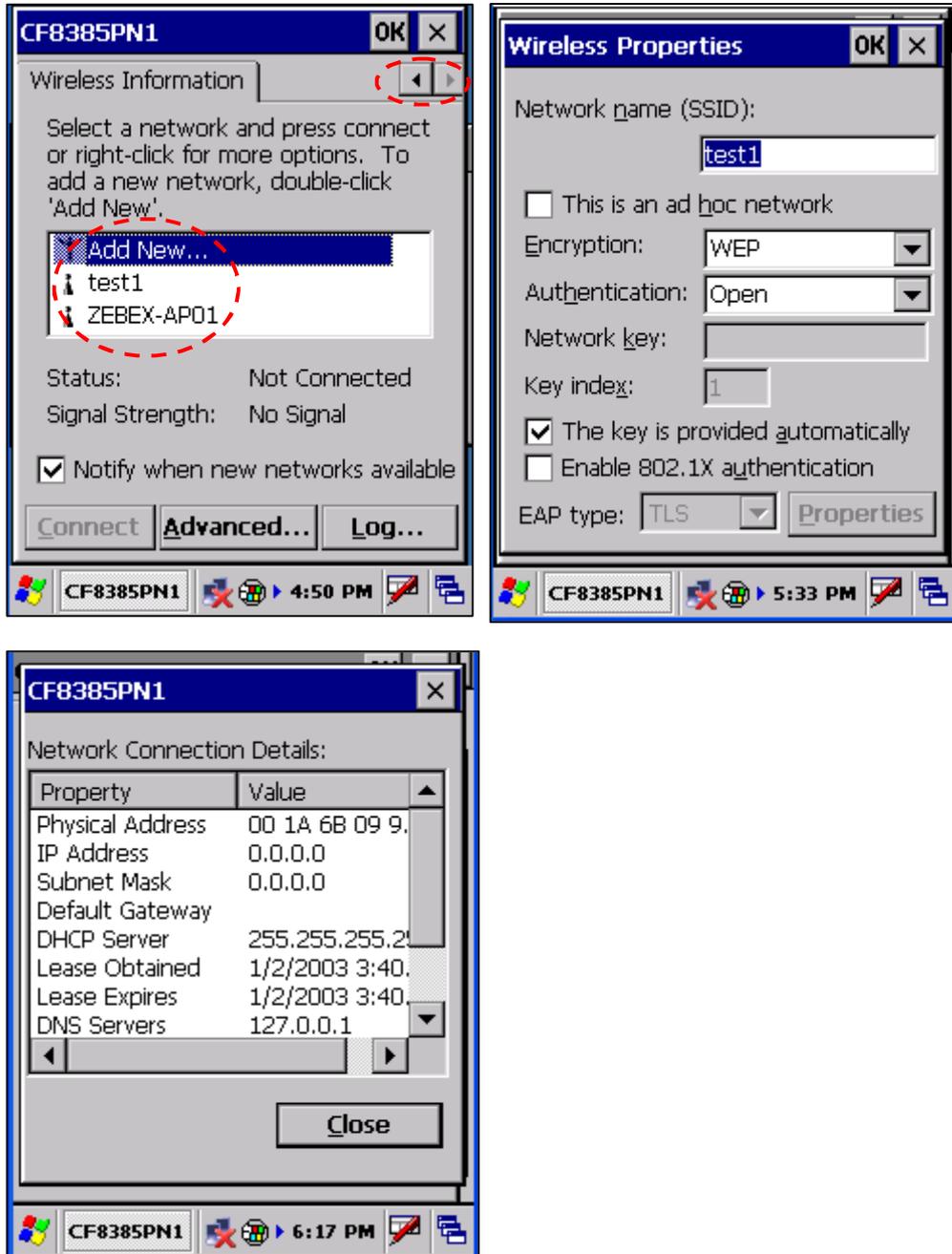
Same with WiFi operation, to check the “**ON**” selection from Bluetooth check box will enable the Bluetooth function. On the other hand check the “**OFF**” selection will disable the Bluetooth function.



The available wireless network access point will be searching automatically when you check the “**ON**” selection for enable WiFi function. You can select an access point and press “Connect” button to **Connect** with that network.



Double-click the "Add New..." on the list box will add a new wireless network, or double-click an existed access point on the list box for open the wireless properties for setting. You also can use "◀" or "▶" button for display more information for network setting.



# TrayScan

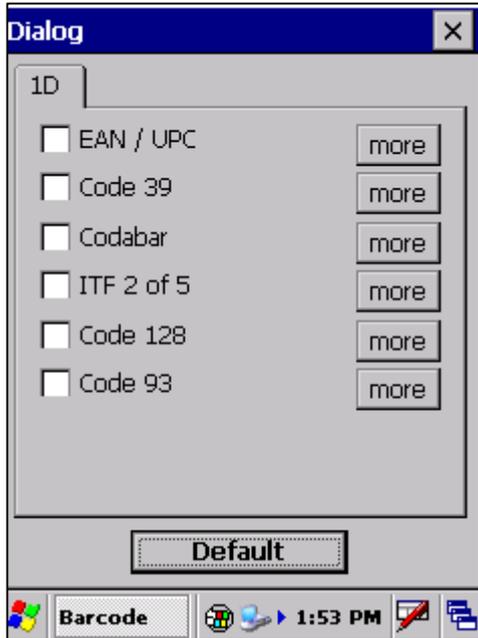
The TrayScan program is a barcode reader set up program, it offer you an easy way to enable or disable the barcode scanner, and also offer you to set up each barcode symbolic properties.



1. Enable Scanner  
To check the selection will enable barcode scanner for ready to read, uncheck the selection to disable barcode scanner function.
2. Emulate keyboard  
Set the barcode scanner to send the barcode data to operation system via emulate keyboard input. It will allow you to using terminal emulation or command prompt application to use barcode scanner for read the barcode data into your application,
3. Terminator  
Set the terminator control code with barcode data. We offer “None”, “Tab” and “CR/LF” for selection.
4. Preamble  
Set the preamble character with barcode data.
5. Setting  
To set the barcode parameter value of each kind of barcode for barcode scanner.

**Barcode Setting:**

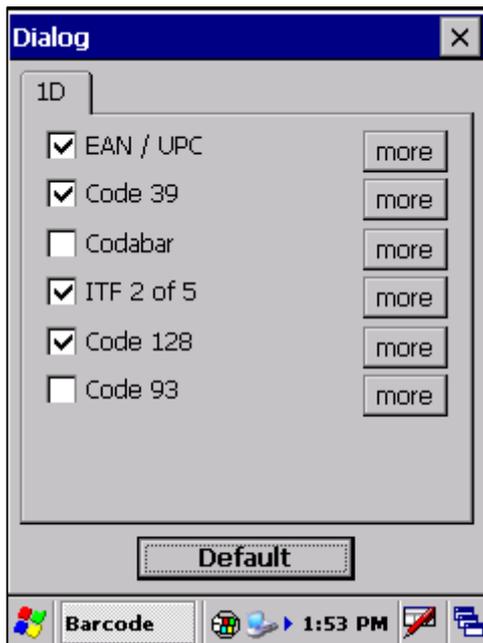
Press the "  " button in TrayScan application to start the barcode setting.



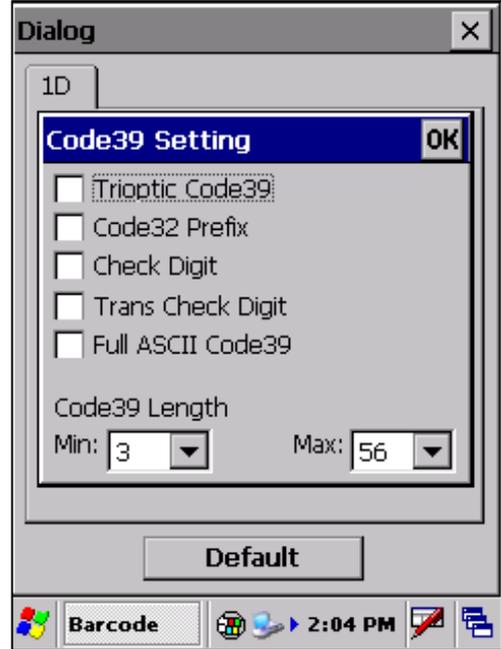
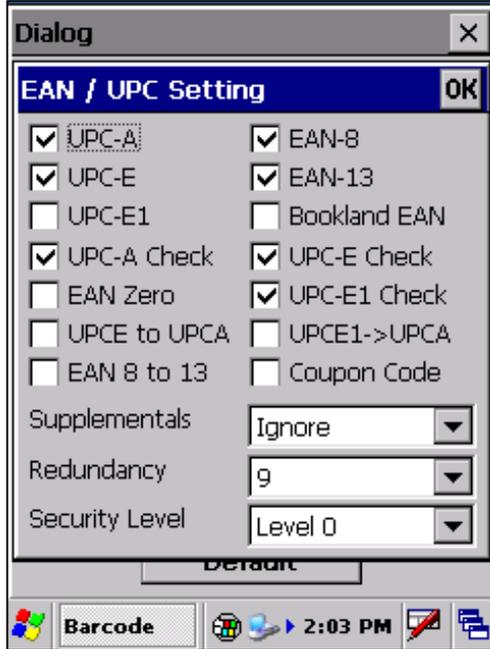
To check the barcode type selection for enable the type of barcode for read.

Press "  " button to setting the barcode parameter value of each kind of barcode.

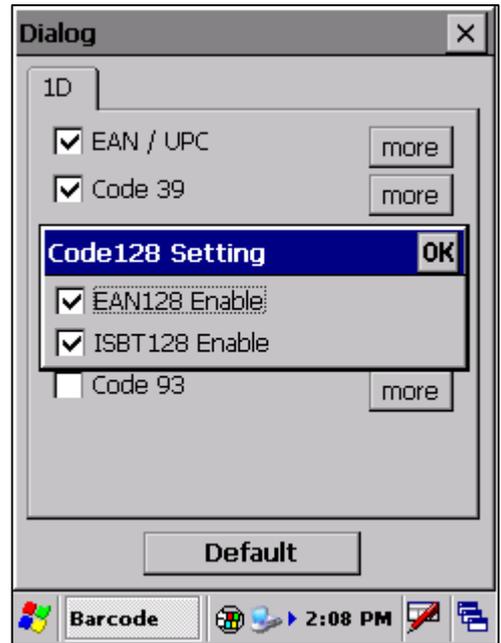
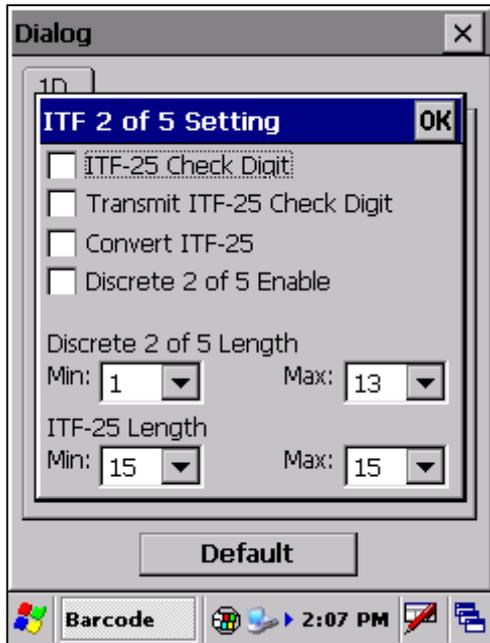
Press "  " button to use system default value to set up the barcode parameter. The default value was show in below pictures.



The default values of EAN/UPC code and Code39.



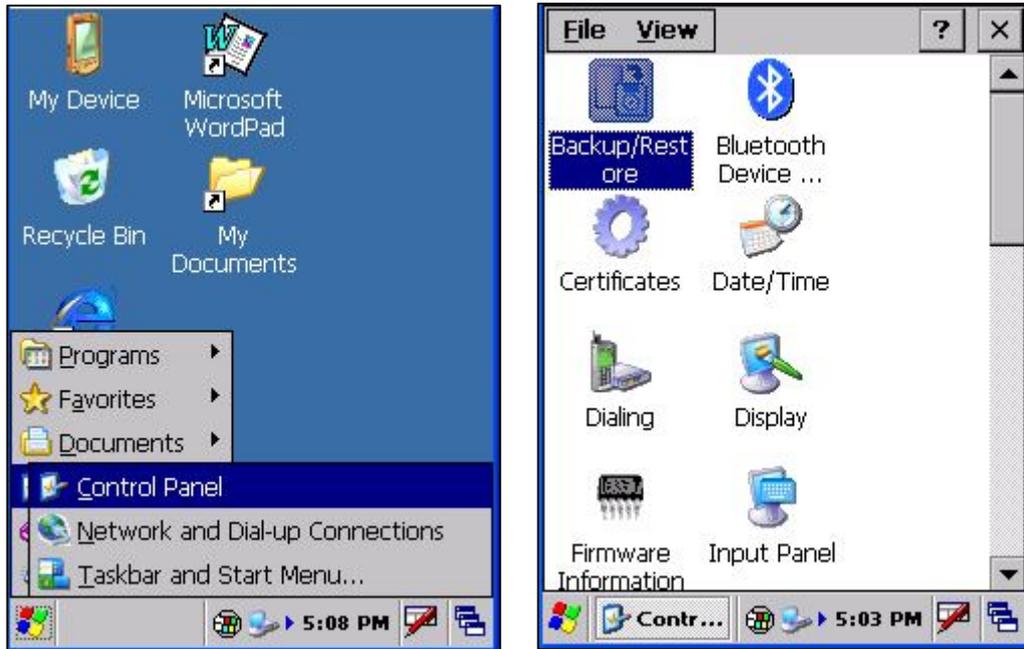
The default values of ITF 2 of 5 code and Code128.



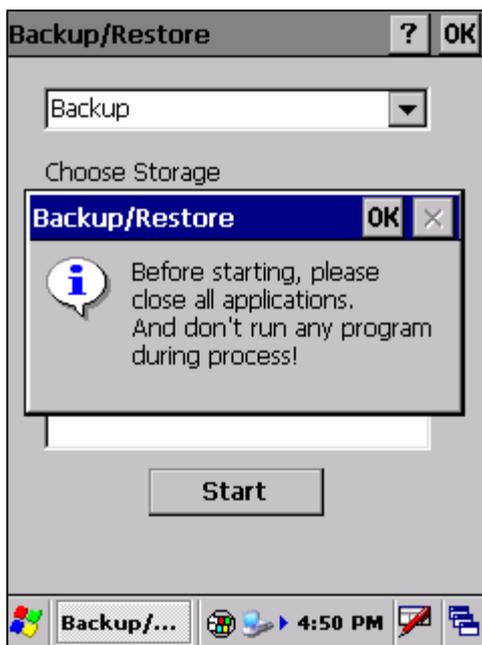
# Backup/Restore

This application provides you an easy way to backup or restore the device setting information into storage card. So, don't forget prepare a mini-SD storage card before you running the backup function.

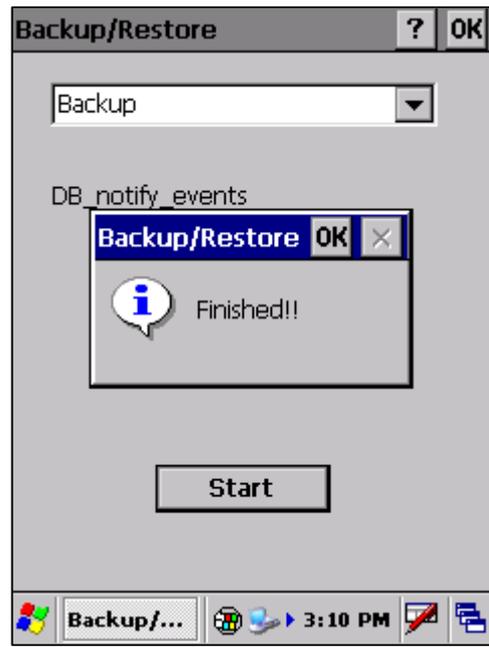
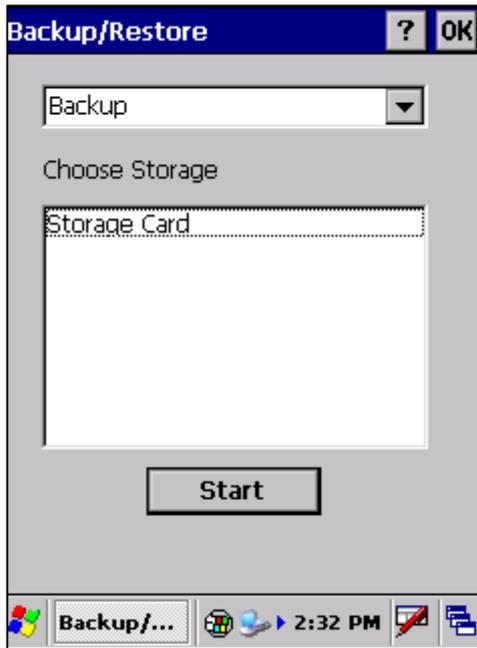
You can find this application is located on path "settings\control Panel".



There is a pop-up warning message advice you close all application and stop running any program when you start the application.



To click " **OK** " button go to the Backup / Restore menu.

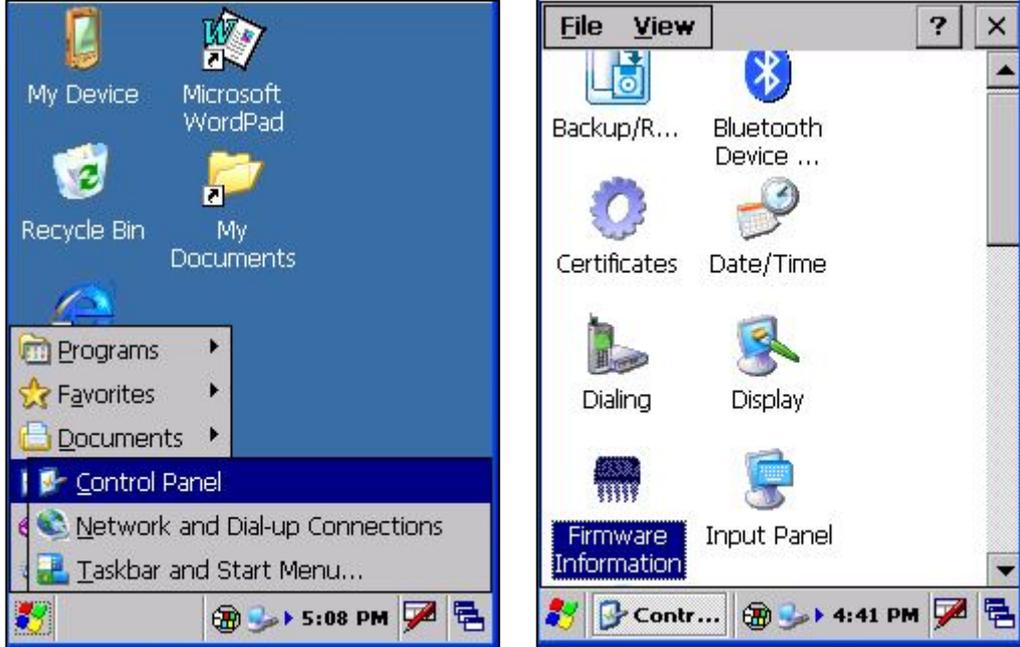


If has already inserted mini-SD you can press " **Start** " button, begin to Backup or Restore.

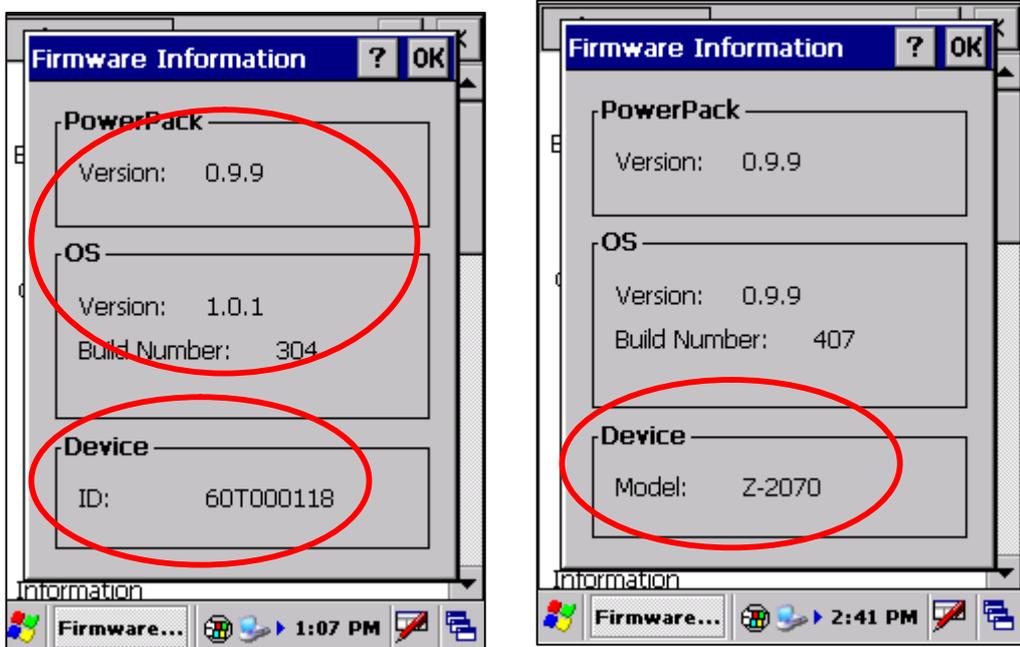
# Firmware Information

This application will check and display the version information of the device's operation system and PowerPack utility.

You can find this application is located on path " \settings\control Panel\".



This information is good for identify device firmware version for future update or maintenance.

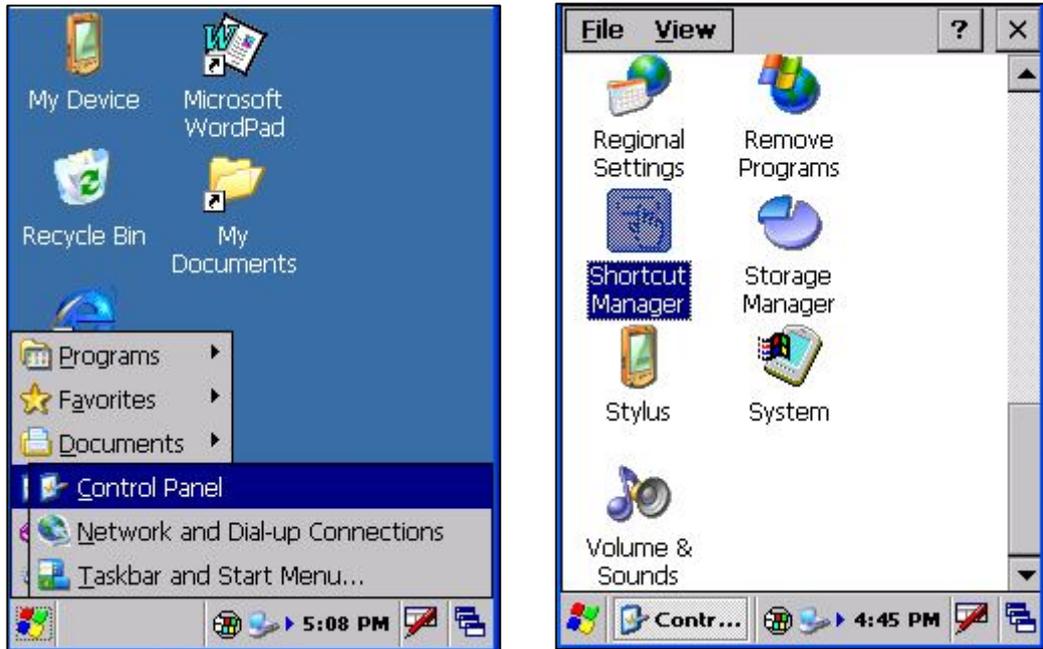


Click the Device frame to shows the Model number. and double-chick it will return to display the Device ID.

# Shortcut Manager

This application utility is provides you an easier way to set up function key for your device. Through using this function key set up utility you will easily and quickly to start the application program like, Window Media Player, Calculator... etc, or your own designed application program, and even the windows system function, like increasing or decreasing the volume or doing the adjustment of brightness on LCD panel.

You can find this application is located on path “\settings\control Panel”.

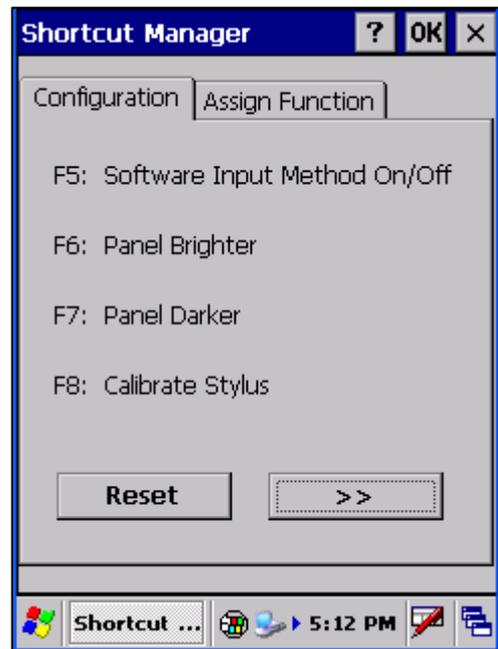
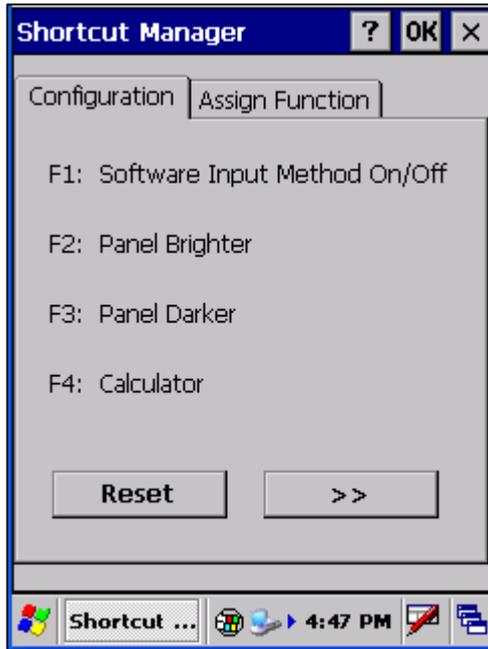


Procedure this include two select Page, "Configuration " and " Assign Function ". Include under it is at " Configuration " two piece button, including " Reset " button and " >> " Button.

Button " Reset " will restore the function key setting as factory default. The factory default set is:

- F1 & F5: Software Input Method On/Off  
It is let you easy to wakeup or close the software keyboard on the screen. You can use F1 or F5 function key to open or close the software keyboard.
- F2 & F6: Panel Brighter  
Turn the screen backlight to bright.
- F3 & F7: Panel Darker  
Turn the screen backlight to dark.
- F4 : Calculator  
Start the Calculator program.
- F8 : Calibrate Stylus  
Start the screen Calibration function.

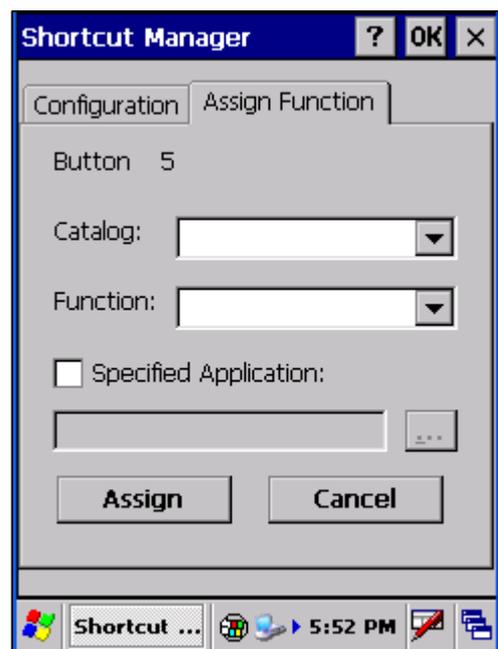
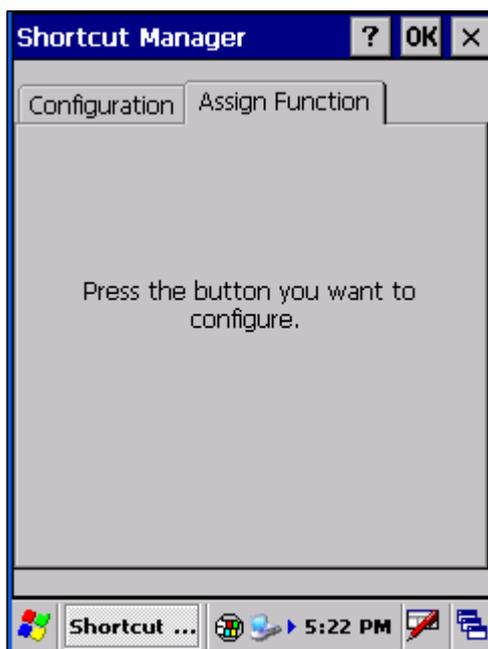
There are four function keys information display in one page. Button “>>” for change to next page to display the other four function key’s setting.



In the page of “Assign Function” offer you to reset the function keys. This program use pushbutton operation to assign the function key you want to setting. The program will catch the function key scan code and display the set up page for setting. If you want to set F5 function key, you need to press “SF/Fn” button first then press F1 to assign it. It’s mean F5~F8 function key is compose of “SF/Fn” with F1~F4.

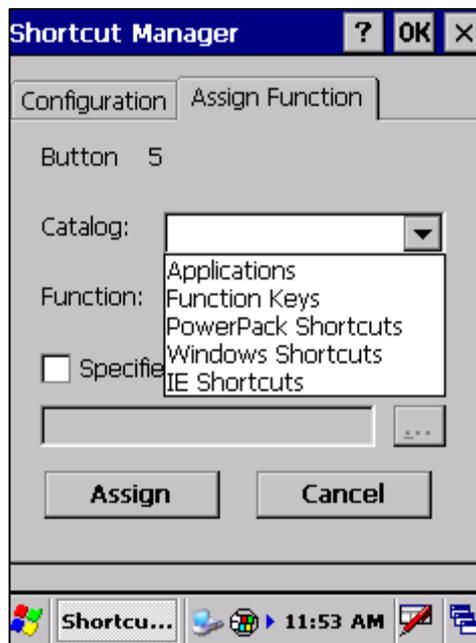
SF/Fn + F1 = F5,  
SF/Fn + F3 = F7,

SF/Fn + F2 = F6,  
SF/Fn + F4 = F8

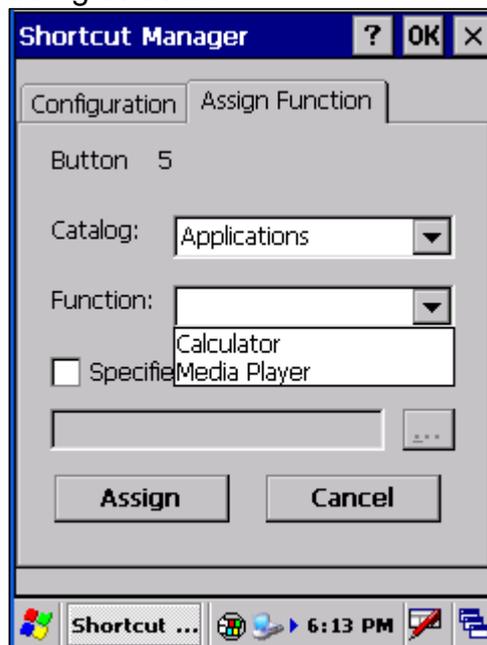


The message on the page of “Assign Function” was explain in below.

1. **Button X** : Indicates which function key of pushbutton being assigned. For example, “Button 5” means F5 function key being assigned.
2. **Catalog** : Including 5 standard catalogs for selection.
  - (1) Applications (application program)
  - (2) Function Keys (function Keys F1~F2)
  - (3) PowerPack Shortcuts (the swift key of PowerPack function)
  - (4) Windows Shortcuts (the swift key of WinCE system function)
  - (5) IE Shortcuts (the swift key of IE)

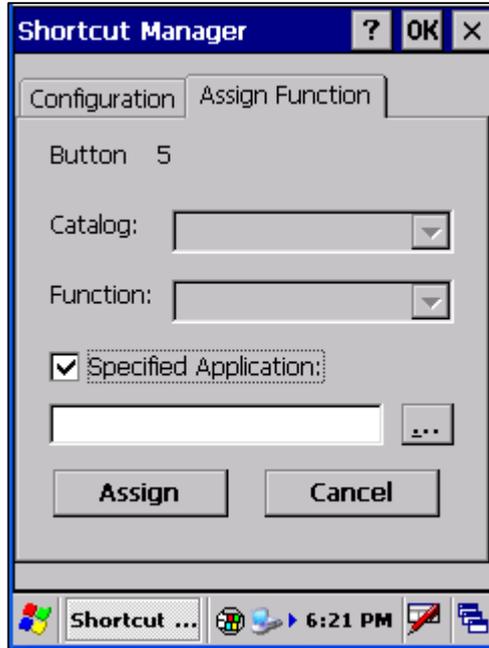


3. **Function** : Defines the standard function by deferent the “Catalog” being selected.



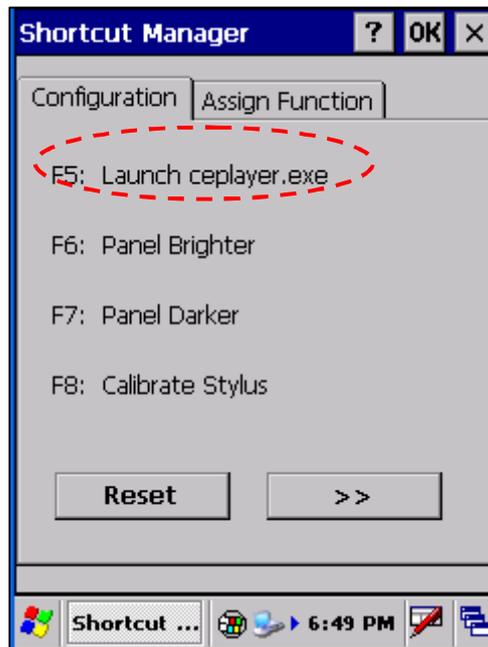
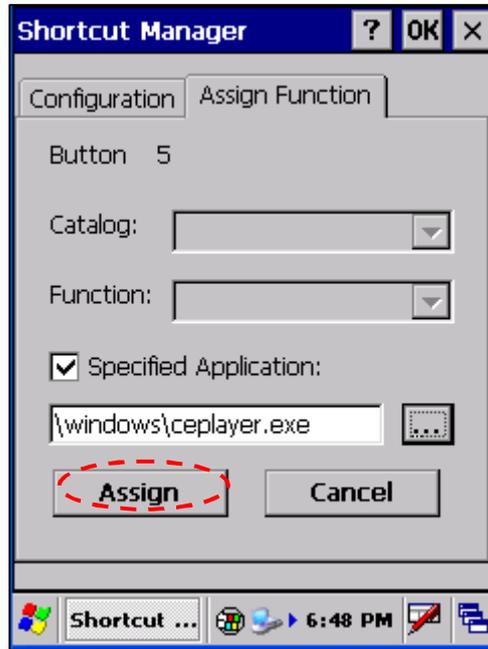
**4. Specified Application:** Setting others application program on the device for the assigned function key.

After select this function, then press "... " button to assign an application for this function key.



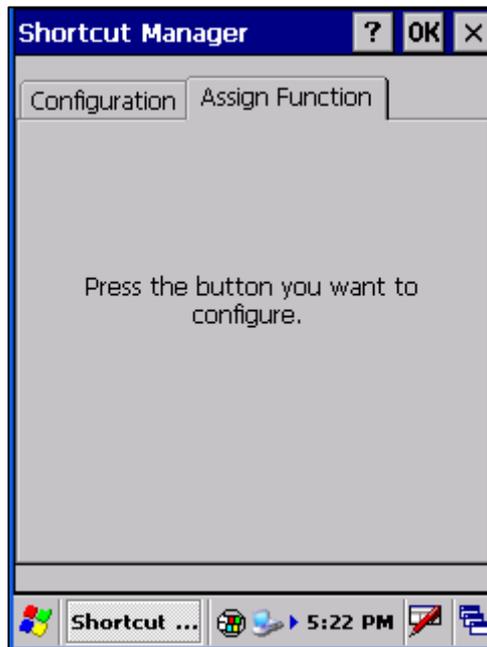
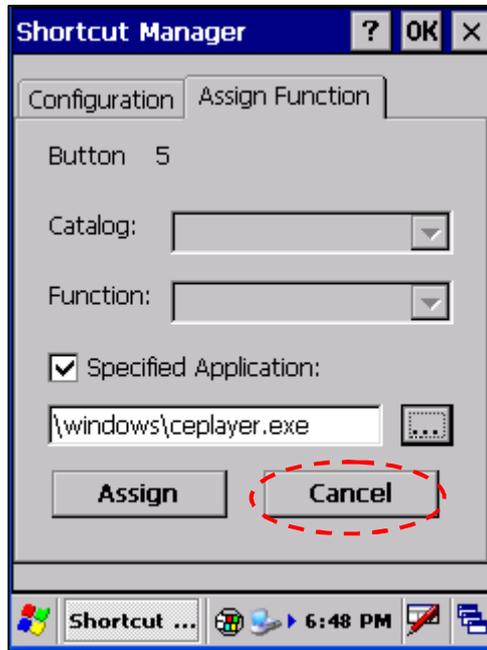
5. Assign : Assigning the function key setting.

Press “ **Assign** ” button after you selected an application of the shortcut for a function key. The screen will change to the page of ‘ **Configuration** ’ and update the function key setting information.



6. **Cancel :** Cancel the function key setting.

Press “ **Cancel** ” button to cancel the current function key setting and back to the original display of page “ **Assign Function** ”.



# How to order

Please offer Part Number or Model Name for next purchase.

## 1. Z-2070 Series Windows CE.NET Handheld Computer Set.

Part Number	Model Name	Description
<b>882-7000UB-000</b>	Z-2070BA	Windows CE.NET Handheld Computer, TFT 2.4"QVGA color display, 64MB SDRAM/64MB F-ROM
<b>882-70WLUB-000</b>	Z-2070WL	WindowsCE.NET Handheld Computer, TFT 2.4"QVGA color display, 64MB SDRAM/ 64MB F-ROM, With WLAN
<b>Standard Accessories</b>		
170-70U300-180	USB Cable	USB type A, 180cm for Z-2070 connect to PC USB port.
11S-500501-U10	Travel Charger	100~240V DC5V/1000Ma; for USB cable(Type: North America/Japan)
<b>or</b>		
11S-500501-U10	Travel Charger	100~240V DC5V/1000Ma; for USB cable(Type: Europe)
862-206002-400	Battery Pack	Lithium-Ion rechargeable battery pack, 3.7V 2,200 mAh
560-820500-741	Stylus Pen	Length: 95.7cm, including reset thimble
623-220500-061	Sling	Sling for stylus pen
623-220500-031	Hand Strip	Z-2070 hand strip and stylus pen holder
560-020600-891	Hand Strip Holder	Z-2070 hand strip holder

## 2. CRD-70 Communication and Battery charging Cradle Set.



Part Number	Model Name	Description
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<b>882-70CR00-000</b>	CRD-70	Z-2070 communication and battery charging cradle
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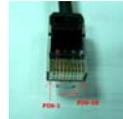
**Standard Accessories**



170-07R420-150	RS-232 Cable
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RS232 cable connect from CRD-70 to PC RS-232 Dsub port.

PIN-OUT configuration	
DB-9(F)	
1	CD (Carrier detect)
2	TxD (Transmit data)
3	RxD (Receive data)
4	DSR (Data set ready)
5	GND (Signal ground)
6	DTR(Data terminal ready)
7	CTS (Clear to send)
8	RTS (Request to send)
9	RI (Ring indicator)



PIN-OUT configuration	
1	NC
2	TxD (Transmit data)
3	RxD (Receive data)
4	NC
5	GND (Signal ground)
6	NC
7	CTS (Clear to send)
8	RTS (Request to send)
9	NC
10	GND(Signal ground)



173-0U3000-150	USB Cable
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RJ45 USB type B cable connect from CRD-70 to PC USB port.

### 3. Z-2070 Series Optional Accessories

Part Number	Model Name	Description
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**170-70U300-180** USB cable

USB type A, 180cm for Z-2070 connect to PC USB port.

DC Jack: For battery charge  
 INNER OF DC JACK:+9V 2A  
 OUTER OF DC JACK:GND

PIN-OUT configuration	
DB-9 (Female)	
1	CD (Carrier detect)
2	TxD (Transmit data)
3	RxD (Receive data)
4	DSR (Data set ready)
5	GND (Signal ground)
6	DTR (Data terminal ready)
7	CTS (Clear to send)
8	RTS (Request to send)
9	RI (Ring indicator)



**173-0U3000-150** USB Cable

RJ45 USB type B cable connect from CRD-70 to PC USB port.



**170-07R420-150** RS-232 Cable

RS-232 cable connect from CRD-70 to PC RS-232 Dsub port.



**191-B22004-185** Battery Pack

Lithium-ion rechargeable battery pack, 3.7V, 2,200mAh



**560-820500-741** Stylus Pen

95.7mm, including reset thimble

	Part Number	Model Name	Description
	<b>623-220500-061</b>	Sling	Sling for stylus pen
	<b>623-220500-031</b>	Hand Strip	Z-2070 hand strip and stylus pen holder
	<b>560-020600-891</b>	Hand Strip Holder	Z-2070 hand strip holder
	<b>862-206002-400</b>	AC Adapter	AC 100~240V 50/60HZ 0.6A, DC 9V/2A
	<b>11S-000000-008</b>	Adapter Head	Britain type head ,interchangeable plug, for 11S-900180-008 AC adapter
	<b>11S-000001-008</b>	Adapter Head	U.S. type head ,interchangeable plug, for 11S-900180-008 AC adapter
	<b>11S-000002-008</b>	Adapter Head	Australia type head ,interchangeable plug, for 11S-900180-008 AC adapter
	<b>11S-000003-008</b>	Adapter Head	Europe type head ,interchangeable plug, for 11S-900180-008 AC adapter

	Part Number	Model Name	Description
	<b>11S-500501-U10</b>	Travel Charger	AC 100~240V,DC 5V/1A;for USB cable (Type: North America/Japan)
	<b>11S-500503-U10</b>	Travel Charger	AC 100~240V,DC 5V/1A ; for USB cable(Type: Europe)
	<b>11S-900000-007</b>	Adapter Head	WA-7 switch head for travel charger, Britain type head
	<b>11S-900002-007</b>	Adapter Head	WA-17 switch head for travel charger, Australia type head

<< MEMO >>