SHENZHEN CHAINWAY INFORMATION TECHNOLOGY CO., LTD

C3000 Handheld Terminal

2017-10-25



Contents

Stat	tement	4
1.	Overview	5
	1.1 Technical Parameters	6
	1.2 Feature and Structure	8
	1.3 Keyboard	11
	1.4 Standard Accessories	
	1.5 Optional Accessories	
2.	Switching on device	14
	2.1 Battery Exchange	14
	2.2 TF Card Installation	
	2.3 SIM Card Installation	
	2.4 Battery Recharging	
	2.5 TF Card Installation	
	2.6 Suspend/Shutdown/Restart	
	2.7 Taskbar	
	2.8 Desktop	
	2 9 Restart	23
3.	System Setting	
•	3.1 Internet	27
	3.2 PC Connection.	
	3.3 Storage Manage	
	3.4 Power	
	3.5 Keyboard	
	3.6 Regional Settings	
	3.7 Date/Time	
	3.8 Remove Programs	
	3.9 Input Panel	
	3.10 Mouse	
	3.11 Network and Dial-up Connection	
	3.12 System	40
	3.13 Display	
	3.14 Volume & Sounds	
	3.15 Terminal Server Client Licenses	
	3.16 Stylus	
	3.17 Bluetooth Device Properties	
	3.18 ActiveSvnc Repair	
4	Keyboard and Input Method	
	4.1 Soft Keyboard	
	4.2 Input Methods	
5	Network Connection	51
	5.1 WIFI Connection	51
	5.2 GPRS Dial-up Connection	53
	5.2.1 GPRS Configuration	53
	5.2.2 GPRS Dial-up Connection	
6.	Synchronization with the PC and Updating OS	57
	6.1 Introductions on the ActiveSync	57

	6.2 ActiveSync Installation	58
	6.3 Update Operating System	62
	6.3.1 Copy System Files to SD Card	62
	6.3.2 Update OS for Windows CE	63
	6.3.3 Restore Factory Settings	64
7.	Functional Utilization	65
	7.1 Barcode	65
	7.2 RFID	66
	7.3 GPS	67
	7.4 Camera	68
	7.5 Bluetooth	69
8.	Maintenance	70
	8.1 Equipment and System Issues	.70
	8.2 Scanning Issues	.71
	8.3 RFID Issues	72
	8.4 Network and Communication Issues	73
	8.5 Others	73
9.	AC Adapter & Battery Safety	.74
	9.1 Switching AC/DC Power Adapter Specification	.74
	9.2 Battery Safety Guidelines	75
Арр	endix - 76 -	
	Code Types of 1D Barcode Scanner 7	'7 -
	1.1 Supported Code Types 7	'7 -
	1.2 Transmit Code Type Character 7	'8 -
	1.3 Enable / Disable Barcodes 7	'9 -

Statement

2013 by Shenzhen Chainway Information Technology Co., Ltd. All rights reserved.

No part of this publication may be reproduced or used in any form, or by any electrical or mechanical means, without permission written from Chainway. This includes electronic or mechanical means, such as photocopying, recording, or information storage and retrieval systems. The material in this manual is subject to change without notice.

The software is provided strictly on an "as is" basis. All software, including firmware, furnished to the user is on a licensed basis. Chainway grants to the user a non-transferable and non-exclusive license to use each software or firmware program delivered hereunder (licensed program). Except as noted below, such license may not be assigned, sublicensed, or otherwise transferred by the user without prior written consent of Chainway. No right to copy a licensed program in whole or in part is granted, except as permitted under copyright law. The user shall not modify, merge, or incorporate any form or portion of a licensed program with other program material, create a derivative work from a licensed program, or use a licensed program in a network without written permission from Chainway.

Chainway reserves the right to make changes to any software or product to improve reliability, function, or design.

Chainway does not assume any product liability arising out of, or in connection with, the application or use of any product, circuit, or application described herein.

No license is granted, either expressly or by implication, estoppel, or otherwise under any Chainway intellectual property rights. An implied license only exists for equipment, circuits, and subsystems contained in Chainway products. Bluetooth is a registered trademark of Bluetooth SIG. Microsoft, Windows and ActiveSync are either registered trademarks or trademarks of Microsoft Corporation. All other product or service names are the property of their respective owners.

Note: In this manual, we use WINCE6.0 professional for the reference.

Address: 9/F, Building 2, Phase 2, Gaoxinqi Industrial Park, Liuxian 1st Rd, District 67, Bao'an, Shenzhen Zip Code: 518102 Telephone: 86-755-23223300 Fax: 0755-23223310 www.chainway.net

1. Overview

C3000 handheld data terminal was born with compact size, portability, durability, functionality and flexibility, which is customized for enterprise administrative personnel and mobile staff, as well as business application and IT demands.

C3000 integrates 1D or 2D barcode scan engine, RFID HF, UHF multiple frequency read/write module, Bluetooth, WIFI, GPRS, GPS communication methods, 5MP auto-focus camera, etc. With C3000, workers in every walk of life (such as logistic expressage personnel, medical care personnel in the hospital, retail management personnel and warehouse management personnel) are able to enjoy economic efficient data collection service so as to realize simplification of task, improve work efficiency, shorten responsive time to customers and enhance customer service.

The product features at adoption of consumer's favorite appearance and ergonomics design, which can meet business requirements of mobile staff. In addition, it abides by design philosophy of portability and good-looking industrial design, compact size and ease of use, waterproof and dustproof, sturdiness and durability, high precision, high speed, extensibility and customization, to adapt different business data collection applications.

1.1 Technical Parameters

Physical Parameters				
Dimension	153mm * 75mm * 29mm			
Weight	330g(including the standard battery)			
Display	Color 3.5"QVGA TFT-LCD with backlight, 65K colors, 240 W x 320 L (QVGA size)			
Input Method	Touch input and keyboard input			
Extension Slots	PSAM, SIM/PSAM, MicroSD/TF card slot under the battery			
Battery	Rechargeable li-ion polymer battery 3.7V/3200mAh Pistol Grip: rechargeable li-ion polymer battery 3.7V, 5200mAh MAX (with pistol grip)			
Audio	0.5 watt			
Keyboard	QWERT: 41 silicone buttons and 3 side buttons; Numeric: 24 silicone buttons and 3 side buttons;			
Performance				
CPU	Freescale 800MHz			
RAM	256MB			
Memory	4GB iNAND FLASH; MicroSD/TF card, maximum 32G			
Interface/Communications	USB port for sync with PC(set USB as OTG, it recognizes external devices like U disk) RS-232 port for printer debugging DC port for charging			
Environmental				
Operating Temperature	-10℃ to 50℃			
Storage Temperature	-40℃ to 70℃			
Humidity	5%RH to 95%RH non-condensing			
Dropping Survive	Multiple 5ft./1.5m drops over operating temperature range, in accordance with MIL-STD 810G			
Tumbling Survive	1,000 0.5m tumbles, in accordance with IEC tumble specification			
Sealing	IP64			
Electrostatic Discharge (ESD)	+/-15kv VDC air discharge, +/-8KV VDC direct discharge, +/-8KV VDC indirect discharge			
Programming Environment				
Operating System	Windows Embedded CE 6.0			
SDK	Chainway Software Development Kit			
Language	C++, C#, VB.NET			
Tool	Visual Studio 2005/2008			
Data Collection				
Barcode	1D Linear scanner (SE655 CCD or SE955 laser); 2D Imager (SE4500 CMOS);			
1D Barcode Scan Engine	Optical resolution: 5Mil min width Roll tolerance: ±25° Pitch tolerance: ±65° Skew tolerance: ± 30° Ambient light: 0ft.candles-10000ft.candles Scan repetition rate: 50 per second Scan angle: 53°±3° Barcode type: UPC/EAN, Bookland EAN, Code 128, Code 39, Code 93, Code 11, Interleaved 2 of 5, Discrete 2 of 5, Chinese 2 of 5, Matrix 2 of 5, Inverse 1D, MSI, GS1 DataBar, etc. 1D laser scanner: Symbol SE955 (Optional)			
	Optical resolution: 4Mil min width Roll: 100%UPC (5in. ±35°) Pitch Angele: 100%UPC (5in. ±65°)			

	Skew tolerance: 100%UPC (5in., ±50°)		
	Ambient light: 10000ft.candles (107640 lux) Scan repetition rate: scan 104 per second (+) 12 times (two-way)		
	Scan angle: 47°±35°(standard)/ 35°±3° (narrow-angle)		
	Barcode type: UPC/EAN, Code128, Code39, Code93, Code11.		
	Interleaved 2 of 5, Discrete 2 of 5, Chinese 2 of 5, Codabar, MSI, RSS.		
	ect.		
	2D CMOS laser scanner: Symb	ol SE4500	
	Sensor resolution: 750 (horizon	ital) * 480 (perpendicu	lar) pixel (gray level)
	Roll tolerance: 360°		
	Skew tolerance: +60°		
	Ambient light: 9000ft.candles/90	6900 lux (lightless)	
	Aiming LED (VLD): 655nm ± 10)nm	
	Illumination element: 650nm ± 5	5nm	
2D Barcode Scan Engine	Field of view: 40° horizontal, 2	5° perpendicular	
	Barcode type: PDF417, MicroP	DF417, Composite, RS	SS, TLC-39,
	Datamatrix, QR code, Micro QF	R code, Aztec, MaxiCoo	de; Postal Codes:
	Postal (KIX) ect	stal, Australian Postal,	Japan Postal Dutch
	Decode ranges		
	SR Focus	Near	Far
	5 mil Code 39	2.1 in./53 mm.	7.5 in./191 mm.
	100% UPC/ENA	1.6 in./41 mm.	15.5 in./394 mm.
	6.7 mil PDF417	3.4 in./86 mm.	7.1 in./180 mm.
Camera	Resolution: 5.0MP		
	Auto Focus		
RFID	HF: (Optional)		
	Frequency: 13.56MHz	CO2 (Optional)	
	Distance: 0cm~8cm		
	UHF: (Optional)	mizabla)	
		JIIIZADIE)	
	CN: 920~925MHZ		
	EU: 865~868 (ETSI EN 302 208)		
	Protocol: EPC C1 GEN2/ISO18000-6C		
	Read range up to: 2.0m		
	Antenna: right-hand polarization (3dbi)		
		1)	
Wireless Data Communications			
	WIFI: muRata®		
	Protocol: IEEE802.11b/g;		
WIFI Data Rates: 802.11b max 11Mbps; 802.11g max 54Mbps Antenna: internal		ops	
	Freq range: 802.11b-2.4GHz; 802.11g-2.4GHz		
WWAN	Security: WPA2, PEAP, ILS, WPA2-PSK, WPA-PSK, WPA2/AES		
Wireless PAN	ess PAN Bluetooth: Class 2 0, 5~10 m		
GPS	GPS: UBLOX NEO-6M low energy GPS chip		
		·	

1.2 Feature and Structure



Pic 1-2-1 C3000 Front



Pic 1-2-2 C3000 Back





1.3 Keyboard

There are two optional types including QWERT and numeric keyboards. QWERT Keyboard: 41 silicon buttons and 3 side buttons for customization;



Pic 1-3-1 C3000 QWERT Keyboard

Numeric Keyboard: 24 silicon buttons and 3 side buttons for customization.



Pic 1-3-2 C3000 Numeric Keyboard

Name	Quantity	Description	Picture
AC Adapter	1	Battery recharging	
USB Cable	1	Synchronization and battery recharging	
Stylus	1	Touch screen operation	5
Battery	1	Li-ion polymer battery, with 3200mha capacity	
IO Slot	1	USB port, UART port and DC port	

1.4 Standard Accessories

1.5 Optional Accessories

• Carrying Case: being ideal for outdoor using.



• Serial Cable: communicating with the PC.



• Docking Station: Synchronizing with PC, and battery charging.



• CD: The SDK including the related documents.

2. Switching on device

2.1 Battery Exchange

Operating Steps: (Pic 2-1-1)

- 1. Ensure the device is in non-working or recharging status, and unlock the battery cover.
- 2. Remove the battery cover as the direction of (3).
- 3. Take out the battery lightly.
- 4. Install the new battery as the direction of (5).
- 5. Lock the battery cover as the direction of (6).



Pic 2-1-1

2.2 TF Card Installation



Pic 2-2-1

Operating Steps:

- 1. Ensure the device is in non-working or recharging status.
- 2. Unlock the battery cover.
- 3. Take out the battery.
- 4. Install the TF card carefully as the direction of pic 2-2-1.
- 5. Install the battery and lock the battery cover.

2.3 SIM Card Installation



Pic 2-3-1

Operating Steps:

- 1. Ensure the device is in non-working or recharging status.
- 2. Unlock the battery cover.
- 3. Take out the battery.
- 4. Install the SIM card.
- 5. Install the battery and lock the battery cover.

2.4 Battery Recharging

- Three methods to charge the battery: 1. Use AC Adapter to charge by 220V AC power sockets.
 - 2. Use USB cable to charge by connecting with the PC.
 - 3. Use the cradle to charge the battery.



Pic 2-4-1

2.5 TF Card Installation

After installing the TF card, files under the catalogue of 'My Device/Storage Card' (pic 2-5-1) can be viewed, while is also the TF card catalogue.



Pic 2-5-1

2.6 Suspend/Shutdown/Restart

Suspend

The button Can be pressed to switch the status including

Suspend/Shutdown/Restart. When suspending, the screen would be dark and all modules would stop working.

The device would enter the suspend mode when being in non-working status after a specified time automatically to decrease the consumption.



Wakeup

Press the power button once for device in suspending status, then the device would be wake up.

Note: It is better to suspend it when charging, which would take less time. Please do not press this button frequently within a short period of time, otherwise it may cause damages to the screen and data.

2.7 Taskbar

The taskbar is on the bottom right of the screen as Pic 2-7-1.

教 🛛 🐉 🐉 7:55 PM 🎰 🖷

Pic 2-7-1

Start menu : The menus including multiple applications can be viewed and opened as Pic 2-7-2.





Input method menu : Double click to view the available input methods, also the soft keyboard can also pop up by clicking as pic 2-7-3 and pic 2-7-4.

	Input Panel	
	Esc 1 2 3 4 5 6 7 8 9 0 - = 4	-
	Tab[q]w]e]r]t]y]u]i]o]p][]]	
✓ Keyboard	CAP]a]s[d]f]g]h]j[k]l]; ']	
Hide Innut Panel	Shift] z x c y b n m , . / ←	-
		٠.
🔁 🎒 👬 2:31 PM 🛗	1 🐉 💮 3:52 PM 🎰 🗧	5
Pic 2-7-3	Pic 2-7-4	

Current task menu¹: Click it to view all the current tasks, also click to switch the tasks. Pic 2-7-5





Clock^{14:55}: Show the current time, and 'Date/Time Properties' set, it can also

be set by 'Control Panel->Date/Time'. The showing can be enabled/disabled

by 'Settings->Task and Start Memu'. Pic 2-7-6 and Pic 2-7-7.



2.8 Desktop

The desktop displays the normal icons and shortcuts which we can select efficiently. Pic 2-8-1 and pic 2-8-2



2.9 Restart

Press the power button for 10 seconds, and the device would restart automatically as pic 2-9-1.



Pic 2-9-1

3. System Setting



The detailed setting applications are listed as follows:

Application	Description
Internet Options	Set internet options such as homepage, privacy, security etc.
PC Connection	Specify the method connecting with PC.
0 Stylus	Recalibrate the screen
Storage Manager	Storage management, including HDD and TF cards.
Constant Con	View battery power and manage power schemes.
🍏 Keyboard	Set keyboard properties.

C3000 Handheld Terminal

Password	Set password for system
Regional Settings	Regional settings, customized regions, user interface/input language.
Date/Time	Adjust current time, current date, and change time zone.
Remove Programs	Select and remove programs.
😨 Input Panel	Switch input method.
Mouse	View properties of mouse.
S Owner	Change the owner information
Network and Dial-up Co	Network and dial-up connections. Used for WiFi or GPRS connecting configuration.
Volume & Sounds	Adjust volume and sounds.
System	Display system information, adjust memory and change device name.
S Display	Adjust background, appearance and backlight.
Dialing	Adjust dialing properties.

Cheetah WLAN	WLAN setting. Configure wireless network.
Ö Certificates	Certificate information.
USB Mode Switch	Switch the three USB connection modes including Storage Card For U Disk, Flash Dish For U Disk and Activesync

Note: Please do not modify the items not mentioned above unless being professional.

3.1 Internet

Internet settings including 'General/Connection/Security/Privacy/Advanced/Popups' can be set by 'Control Panel->Internet Options' as the follows:

Internet Options	OK × Internet Options OK	×
General Connection Security	Pri General Connection Security Pri	∢ ▶
<u>S</u> tart Page: http://www.google.com	Use LAN (no autodial) Autodial name: `USB	-
http://www.google.com	Network	
User Agent (requires browser	proxy server	
Windows CE	Address:	
, Cache Size (in KB): 512	Port: 80	
Delete Browsing Hist	ory	
🎝 🗿 Inte 🕀 🚮 🕩 10:37 Al	M 🛗 🔁 🌮 📀 Inte 🛞 🔐 10:38 AM 🛗	1
Pic 3-1-1	Pic 3-1-2	
Internet Options	OK X Internet Options OK	×
Internet Options General Connection Security	OK X Internet Options OK Pri Connection Security Privacy Ad	× • •
Internet Options General Connection Security	OK Internet Options OK Pri Connection Security Privacy Ad Cookies First-party Third-party	× ••
Internet Options General Connection Security Internet Local True intranet	OK Internet Options OK Pri Connection Security Privacy Ad Cookies First-party Third-party isted site Accept Accept Block Block	×
Internet Options General Connection Security	OK Internet Options OK Pri Connection Security Privacy Add Cookies First-party Third-party isted site Accept Accept Block Block Block Prompt Prompt Prompt	×
Internet Options General Connection Security Internet Local True intranet Internet Internet	OK Internet Options OK Pr Connection Security Privacy Add Cookies First-party First-party Third-party @ Accept Accept Block Block @ Prompt Prompt ✓ Always allow session cookies	
Internet Options General Connection Security Internet Local True intranet Internet This zone contains all Web site haven't placed in other zones	OK Internet Options OK Pri Connection Security Privacy Add Cookies First-party First-party Third-party Sted site Accept Block Block Prompt Prompt Always allow session cookies	
Internet Options General Connection Security Internet Local True Internet Local True Internet Local True Internet Local True Internet Sites Setting	OK Internet Options OK Prí Internet Options OK Prí Connection Security Privacy Ad Ad Image: Cookies First-party Third-party Image: First-party Third-party Image: Cookies First-party Third-party Image: Cookies Image: First-party Third-party Image: Cookies Image: First-party Image: Cookies Block Image: First-party Image: Cookies Block Image: First-party Image: Cookies Prompt Image: First-party Image: Cookies Prompt Image: First-party Third-party Image: Cookies Image: First-party Third-party Image: Cookies Image: First-party Image: Cookies Prompt Image: First-party Image: Cookies Prompt Image: First-party Image: Cookies Image: Cookies Image: Firs	
Internet Options General Connection Security Internet Local Intranet Internet Local Intranet Internet Internet This zone contains all Web site haven't placed in other zones Sites Setting	Internet Options OK Pri Connection Security Privacy Add Cookies First-party First-party Third-party Image: Steed site Accept Block Block Prompt Prompt Image: Syou Always allow session cookies Image: Syou Inter Image: Syou Inter	

C3000 Handheld Terminal

Internet Options OK 🗙	Internet Options OK 🗙
Security Privacy Advanced Popl	Privacy Advanced Popups
Accessibility Always expand ALT text for Anchors navigate on access Browsing Always send URLs as UTF-8 Display a notification about e Enable stylesheets Enable page transitions Theming support Disable automatic SIP Underline links Never	Popup Windows Block popups Exceptions Advanced Display notification when a popup has been blocked Open new pages in the current window
🌮 🥑 Inter 🛞 😏 > 3:18 PM 🚔 🖷	🦹 🎯 Inter 🖓 😏 > 3:19 PM 🚔 🖷
Pic 3-1-5	Pic 3-1-6

3.2 PC Connection

PC Connection Properties can be set by 'Control Panel->PC Connection' as Pic 3-2-1 and Pic 3-2-2:

PC Connection Properties OK 🗙	PC Connection Properties OK ×
PC Connection	PC Connection
Enable direct connections to the desktop computer	Change Connections to the
When enabled, connect to the desktop computer using: "USB" Change Connection Warning: Changing the connection may disable communications with your desktop computer.	Connect to desktop computer using: `USB `Desktop @ 115200` `Desktop @ 19200` `Desktop @ 38400` `Desktop @ 57600` `USB Communications with your desktop computer.
≹у (Орс с) (В Э) + 3:49 РМ (В) 15: Ріс 3-2-1	💦 💯 РС С 🗃 🛃 > 3:50 РМ 🚔 🖷 Pic 3-2-2

3.3 Storage Manage

Storage Manager can be set by 'Control Panel->Storage Manager' as Pic 3-3-1 where the operations including formatting and dismounting can be done:

Storage Propert	ies 🛛 ? OK 🗙
Storage Manager	
_[Store Info: —	
SDMMC Flash D	Disk of it 🔽
Capacity:	3.69 GB
Unallocated:	0.00 B
Sector Size:	512.00 B
<u>E</u> ormat	<u>D</u> ismount
Partitions: —	
Part00 *	New
Part01 * Part02 *	Delete
	Properties

Pic 3-3-1

3.4 Power

Power properties cannot be set by 'Control Panel->Power'.

Power properties including 'Battery/Schemes/Device Status' can be checked and set as follows:



3.5 Keyboard

Keyboard Properties can be set by 'Control Panel->Keyboard' as pic 3-5-1:

	Keyboard Properties	ок 🗙
1	Repeat	
	Enable character repeat	
	Repeat delay:	Sh <u>o</u> rt
	Repeat rate: Slow	East
	Tap here and hold down a key t	o test:
>	🐉 💩 Keyb 🕀 🎒 👫 4: 12 PM	*

Pic 3-5-1

3.6 Regional Settings

Regional and Language settings can be set by 'Control Panel->Regional Settings' as pic 3-6-1.

Regional and Language Se OK 🗙	Regional and Language Se OK 🗙
Region Language Input	Number Currency Time Date
Your locale: English (United States)	Decimal symbol:
<u>Customize</u>	Digit grouping symbol:
Appearance samples Time: 4:37:34 PM Short date: 1/6/2013 Long date: Sunday, January 06, 2013	List separators: , Negative sign symbol: -
Positive numbers: 123,456,789.00 Negative numbers: -123,456,789.00 Positive currency: \$123,456,789.00 Negative currency: (\$123,456,789.00)	Negative number -1.1 Display leading zeros: 0.7 Measurement system: U.S.
🦹 🤌 Regio 🗃 💕 4:42 PM 🚔 🖷	🐉 🥱 Regio 🗃 🗊 🗲 4:44 PM 📸 🖷

Pic 3-6-1

Language (Pic 3-6-2) can be selected when the multiple languages are supported, but the default is recommended.

Regional and Language Se <mark>OK</mark> 🗙
Region Language Input
User Interface Language:
The option will determine the language used for the menus, dialogs and alerts.
English (United States)
🐉 🤌 Regio 🛞 💕 🕨 4:48 PM 🛗 😤

Pic 3-6-2

Input: the input language can be set as Pic 3-6-3 once they are installed in the OS as pic 3-6-3:



Pic 3-6-3

3.7 Date/Time

Date/Time/Tim Zone can be set by 'Control Panel->Date/Time' as pic 3-7-1.



Pic 3-7-1

3.8 Remove Programs

The installed programs can be removed by 'Control Panel->Remove Programs', the working principle is the same as PC. Pic 3-8-1.

Remove Programs	0K	×
Remove Programs		
To remove a program, select it then press Remove.	and	
ce AppCenter EN		
Remove.		
🎝 🍓 Remo 🗃 🗊 🖅 5:06 AM	 	2

Pic 3-8-1
3.9 Input Panel

Input Panel including current input method can be set by 'Control Panel->Input Panel' as pic 3-9-1.



Pic 3-9-1

3.10 Mouse

Mouse Properties including sensitiveness of double-click and physical distance can be set by 'Control Panel->Mouse' as pic 3-10-1.



Pic 3-10-1

3.11 Network and Dial-up Connection

Network Properties can be set by 'Start->Settings->Network and Dial-up Connection' as pic 3-11-1 and pic 3-11-2.



3.12 System

System Properties including 'General/Memory/Device Name/Copyrights' can be set by 'Control Panel->System' as pic 3-12-1.



Pic 3-12-1

Memory: the memory using status can be viewed as pic 3-12-2.



Pic 3-12-2

Note: the slider cannot be moved since we are using ROM system otherwise we would get unpredictable error unless restarting the device.

Device Name: device name and device description can be modified as pic 3-12-3.



Pic 3-12-3

Copyright: the detailed copyright can be viewed as pic 3-12-4.



Pic 3-12-4

3.13 Display

Display Properties including 'Background/Appearance/Backlight' can be set by 'Control Panel->Display'.

Background: the background image can be set and customized as pic 3-13-1.



Pic 3-13-1

Appearance: the system appearance can be set as pic 3-13-2.

Display Properties		ок 🗙
Background	Appearance	Backlight
<u>S</u> cheme: 🌠	vindows Stand	tard 🔽
Sa <u>v</u> e	<u>D</u> elete	<u>A</u> pply
Normal Inactive Window Active Dialog	Disabled Se e Wind ? (v Text e Win ? \OK Box Text Button	
Item: Deskt	top	
🐉 🕓 Displ	. 🎭 🌮 10:	27 PM 🛗 🔁

Pic 3-13-2

Backlight: the backlight can be set and customized to save the battery life by setting the idle time as pic 3-13-3.

Display Properties	OK ×	
Background Appearance	Backlight	
Save battery lift automatically to backlight when	e by urning off the not needed.	
Turn off backlight wher Battery power, and for more than 15 se	n using: device is idle econds 💽	
External power, and device is idle for more than 1 minute		
Advanced		
🐉 强 Displ 🥪 🗊 🗲 10:	31 PM 📸 🔁	

Pic 3-13-3

3.14 Volume & Sounds

Volume&Sounds Properties can be set by 'Control Panel->Voluem&Sounds'; Volume: the volume can be set as pic 3-14-1.

Volume & Sounds Properties OK 🗙
Volume Sounds
Soft
Enable sounds for:
 ✓ Events (warnings, system events) ✓ Applications ✓ Notifications (alarms, reminders) ✓ Key clicks: ✓ Soft ● Loud ✓ Screen taps: ✓ Soft ● Loud
🖓 🍌 Volu 😏 👉 10:35 PM 🚔 🖷

Pic 3-14-1

Sounds: different sound solution can be set as pic 3-14-2;



Pic 3-14-2

3.15 Terminal Server Client Licenses

The local license can be managed by 'Control Panel->Terminal Server Client License' as pic 3-15-1.

Terminal Server Client Licenses	×
Stored	
No Licenses tound	
<u>C</u> lose <u>D</u> elete Sa <u>v</u> e	
💦 🎧 Ter 😪 🖓 🏞 11:44 AM 🚔	

Pic 3-15-1

3.16 Stylus



Double-Tap: it is used for double-tap sensitivity setting and testing as pic 3-16-1.

Pic 3-16-1

Calibration: it is used for touch screen calibration when the screen is not responding properly.

Click 'Recalibrate' and in the new interface, please operate as the introduction (5 times, from the middle to the four corners). Pic 3-16-2 and Pic 3-16-3.



Pic 3-16-2

Pic 3-16-3

3.17 Bluetooth Device Properties

Bluetooth Device Properties including nearby Bluetooth devices can be scanned by 'Control Panel->Bluetooth Device Properties' as pic 3-17-1.

Bluetooth Manager	?	ок 🗙
Scan Device		
Scan Device	•	
≹ ØBluet 99⇒ 11:	29 PM	

Pic 3-17-1

3.18 ActiveSync Repair

Abnormal synchronization failure can be repaired by 'Control Panel-> ActiveSync Repair' as pic 3-18-1.

<u>File V</u> iew		? ×
N.	8	
UsbSyncRepa	ir V1.1	ок 🗙
USB Ac	tiveSync Re	epair
Must restart	to take effe	ect !
Display Ir	nput Panel	-
🐉 👭 UsbS	û ≸ S ► 11:37	' PM 📸 🔁

Pic 3-18-1

4 Keyboard and Input Method

4.1 Soft Keyboard

The soft keyboard can be used to input the letters/numbers/symbols as pic 4-1-1, the default is English.



Pic 4-1-1

Two methods to input the uppercase:

- 1. Click the **CAP** of the soft keyboard to input the uppercase, and click **CAP** to change to the lowercase as pic 4-1-2.
- 2. Click the **Shift** of the soft keyboard to input the uppercase, and it would change to lowercase automatically after inputting one letter as pic 4-1-3.



Pic 4-1-2



Pic 4-1-3

For symbol inputting, please click the **CAP** of the soft keyboard and select the symbols to be inputted, then click **CAP** to go back to the normal status as pic 4-1-2.

4.2 Input Methods

Multiple input methods are supported, but the default is English.

5 Network Connection

5.1 WIFI Connection

- 1. Open 'AppCenter' on desktop, then run the application '*WIFI*' in 'AppCenter'; Pic 5.1-1.
- 2. Click 'Load' on 'WLAN Loader', then network icon will display on toolbar; Pic 5.1-2.

Version:3.1	5_EN	_ ×	WLANLoader		××
Device Info	WIFI		Enable	e Wlan	•
1D Barcode	RFID 14443A		Disabl	e Wlan	
GPRS	Camera		GPRS C	amera	
3		Other			▼ Othor
Version:	etwork Hardware 07 Set 4:36 Al	otner	Start Netwo	ork Hardware §≸ S⇒► 4:36 AM	ouner



Pic 5-1-2

1. Double click the network icon, choose the router from 'Wireless Information', and then click 'Connect'; choose proper 'Encryption' and 'Authentication', and type password in 'Network Key', and then click 'OK'; Pic 5.1-3, pic 5.1-4, pic 5.1-5 and pic 5.1-6.

JAGUARGSP1 OK	×	Wireless Properties OK 🗙
Wireless Information	()⊧	Network name (SSID):
Select a network and press connections	Select a network and press connect	
add a new network, double-click		
'Add New'.		
👔 CMNET (preferred)	-	Encryption: AES
Connectify-IBM		Authentication: WPA2-PSK
	1	Network <u>k</u> ey:
Status: Connected to cl	h	Key inde <u>x</u> :
Signal Strength: Good		The key is provided automatically
☑ Notify when new networks available	able	Enable 802.1X authentication
Connect Advanced Log		EAP type: TLS Properties
鸄 JAGUAR 🤧 🏵 > 9:20 PM 🛗		教 JAGUAR 🕵 🏵 > 9:30 PM 🎰 🖷
Pic 5-1-3		Pic 5-1-4

C3000 Handheld Terminal

JAGUARGSP1 OK ×	JAGUARGSP1 OK X
Wireless Information	IP Information IPv6 Information
Select a network and press connect or right-click for more options. To add a new network, double-click 'Add New'. CMNET (preferred) Connectify-IBM Vpap Status: Status: Signal Strength: Good	Internet Protocol (TCP/IP) Address Type: DHCP IP Address: 192.168.100.221 Subnet Mask: 255.255.255.0 Default Gateway: 192.168.100.1
✓ Notify when new networks available Connect Advanced Log	<u>R</u> ene w <u>D</u> etails
鸄 JAGUAR 🤧 🏵 > 9:32 PM 🚔 🖷	🐉 JAGUAR 🥺 🛞 🕨 9:32 PM 🎰 🖷
Pic 5-1-5	Pic 5-1-6

5.2 GPRS Dial-up Connection

5.2.1 GPRS Configuration

Dial-up settings:

Click 'Start Menu'->' Settings'-> 'Network and Dial-up Connections', and then double click 'Make New Connection'. Pic 5.2.-1 and pic 5.2-2.

	Connection 🔮 🗙 👔 校 🗙
	Make New USB CABLE: Connection
Recycle Bin Microsoft WordPad	
Programs ↓ ☆ Favorites ↓ ⊡ Documents ↓	
I 🦻 ⊆ontrol Panel	
Network and Dial-up Connections	
💭 - Серона 😹 🥪 6:32 РМ 🚔 🖷	🌮 🗞 Connec 🖓 🎭 8:14 PM 🚔 🖷
Pic 5.2-1	Pic 5.2-2

1. Input connection name 'GPRS' and then 'Next'; click 'Configure' then 'Next'; Pic 5.2-3 and pic 5.2-4.

Connection 😤 🗙 🖬 💦 🗶	Connection 🐁 🗙 🍙 💦 🗙
Make New Connection	Modem
Type a name for the connection:	GPRS
Select the connection type: Dial-Up Connection Direct Connection	Select a modem: Hayes Compatible on COM1: Bluetooth
 Virtual Private Network (PPTP) Virtual Private Network (L2TP) PPP over Ethernet [PPPoE] 	ICP/IP Settings Security Settings
< <u>B</u> ack <u>N</u> ext >	< <u>B</u> ack <u>N</u> ext >
教 🗞 Connec 🗑 🍛 8:16 PM 🎰 🖷	🚳 Connec 🗑 🍛 8:16 PM 🚔 🖷
Pic 5 2-3	Pic 5 2-4

 In 'Port Settings', set 'Connection Preferences' as below: 'Baud Rate': 115200; 'Data Bits': 8; 'Parity': None; 'Stop Bits': 1; 'Flow Control': None. Then click 'Call Options' to turn to another tab page. Input '+CGDCONT=1,"IP","CMNET"' (input all blue characters including the commas and quotation marks) into 'Extra Settings', the 'CMNET' (which is short for China Mobile Network) should be replaced by your local 'GPRS APN' (Access Point Name); left other default, then click 'OK'; Pic 5.2-5 and pic 5.2-6.

Device Properties OK 🗙	Device Properties OK 🔀
Port Settings Call Options	Port Settings Call Options
Connection Preferences	Call Setup
Baud Rate: 115200	Cancel the call if not connected
Data Bits: 8 💌	
Parity: None 🔽	120 seconds
Stop Bits: 1	Wait for dial tone before dialing
Elow Control: None	Wait for credit card 0 sec.
Terminal	Extra Settings
Use terminal window before dialing	Special modern commands may be
Use terminal window <u>a</u> fter dialing	inserted into the dial string
Manual Dial	+CGDCONT=1,"IP","CMNET"
🦹 Device Pro 🗃 🎭 8:28 PM 🚔 🖣	🛓 Device Pro 🗛 🍘 🕨 8:35 PM 🛗 🖷
Pic 5.2-5	Pic 5.2-6

4. Click Next to Phone Number page, input the country/region code, area code and Phone number (*99***1#), then click Finish; now you can see the GPRS connection icon; Pic 5.2-7 and pic 5.2-8.

Connection 😤 🗙 🖬 💦 🗙	Connection	8. X	📝 💦 🗙
Phone Number 🛛 🔀	30.	21	<u>г</u>
Gers			ĩ
	Make New Connection	GPRS	USB CABLE:
Country/region code:	Connection		
Area code:			
Phone number:			
Eorce long distance			
Force local			
< <u>B</u> ack Finish			
🧦 🔍 Connec 🖪 🏵 🕨 8:52 PM 🚔 🖷	s 🎝 🚳 Connec.	. 🔺 🐌 🕨	8:53 РМ 🎰 🔁
Pic 5.2-7		Pic	5.2-8

5. Double click the GPRS icon; in 'Dial-Up Connection' page, keep 'User Name', 'Password' and 'Domain' blank, and then click 'Dial Properties'; choose 'Location' as 'Car' and then click 'Edit'; Fill the 3 edit boxes all with letter 'G' and then 'OK'. Click 'OK' on 'Dialing Properties', and then back to desktop. Pic 5.2-9, pic 5.2-10, pic 5.2-11 and pic 5.2-12.

Dial-Up Connection	Dialing Properties
GPRS User Name: Password: Domain: Save password Phone: Yag9***1# Dial from: Car Connect Dial Properties	Location: <u>New</u> <u>Remove</u> Local settings are: <u>A</u> rea code: <u>I</u> one dialing <u>C</u> ountry/Region: <u>P</u> ulse dialing <u>D</u> isable call waiting; <u>d</u> [a]: <u>I</u> Dialing patterns are: Local / Long Distance / International: G G <u>E</u> dit
🎝 🕞 GPRS S 🗽 🗛 🕨 9:11 PM	Pic 5.2-9 Pic 5.2-10
Dialing Properties	OK X Dialing Properties OK X
Location: Car	✓ Location: Car ✓
Edit Dialing Patterns	OK X
For Local calls, dial:	Local settings are:
G	<u>A</u> rea code: O <u>T</u> one dialing
For Long Distance calls, dial:	Country/Region: O Pulse dialing
jo For International calls, dial:	Disable call waiting; dial:
G	Dialing patterns are:
(E,e = country/region code; code; G,g = numbe	er) G G
	Edit
🧦 խ GPRS S խ 🗛 א פ:10	0 PM 🎰 🖷 🌮 խ GPRS S խ 🗛 9:10 PM 🚔 🖷
Pic 5.2	2-11 Pi 5.2-12
Note: During the process of our or reference, for users please input information by contacting the loca	configurations, we use 'CMNET' as the the local GPRS setting and dial-up al service provider.

5.2.2 GPRS Dial-up Connection

Please pay attention to the following points before dial up:

- The configurations are set properly.
- SIM card is installed properly as the followed image.
- The frequency of the SIM card is supported by the GPRS module.
- The SIM card is available and the GPRS function is activated.



5-2-11

6. Synchronization with the PC and Updating OS

The handheld, can be visited for data previewing, copying and file cutting after installing the ActiveSync software successfully. The following introduces the detailed steps on how to install it.

6.1 Introductions on the ActiveSync

3 versions ActiveSync software for different OS (operating system):

• ActiveSync4.5_OfficialRelease.msi

Supports OS:

Windows Server 2003; Windows Server 2003 Service Pack 1; Windows Server 2003 Service Pack 2; Windows XP; Windows XP 64-bit; Windows XP Embedded; Windows XP Embedded Service Pack 1; Windows XP Embedded Service Pack 2; Windows XP for Itanium-based Systems Version 2003; Windows XP Home Edition; Windows XP Media Center Edition; Windows XP Professional 64-Bit Edition (Itanium); Windows XP Professional 64-Bit Edition (Itanium) 2003; Windows XP Professional Edition; Windows XP Professional x64 Edition; Windows XP Service Pack 1; Windows XP Service Pack 2; Windows XP Starter Edition; Windows XP Tablet PC Edition

• ActiveSync6.1_OfficialRelease-x64.exe

Supports OS (64bit):

Windows 7 Ultimate; Windows 7 Enterprise; Windows 7 Professional; Windows 7 Home Premium; Windows Vista Ultimate; Windows Vista Enterprise; Windows Vista Business; Windows Vista Home Premium; Windows Vista Home Basic; Windows Vista Server

• ActiveSync6.1_OfficialRelease-x86.exe

Supports OS (32bit):

Windows 7 Ultimate; Windows 7 Enterprise; Windows 7 Professional; Windows 7 Home Premium; Windows 7 Starter; Windows Vista Ultimate; Windows Vista Enterprise; Windows Vista Business; Windows Vista Home Premium; Windows Vista Home Basic; Windows Vista Server.

6.2 ActiveSync Installation

Choose the ActiveSync properly according to the OS of the PC, and we use ActiveSync4.5_OfficialRelease.msi as the reference.

1. Open the software, the following is the interface: Pic 6.2-1





2. Choose 'Next' and we will enter the following interface: Pic 6.2-2.



Pic 6.2-2

3. Then we choose 'I accept the terms in the license agreement', and click 'Next'; Pic 6.2-3.

🙀 Licrosoft ActiveSync 4.5	
Customer Information Please enter your information.	1
User Name:	_
Organization:	
T T	
< <u>B</u> ack	Next > Cancel

Pic 6.2-3

4. Input the user name and organization information and then click 'Next'; Pic 6.2-4.

🙀 Licrosoft 🗚	ctiveSync -	4.5			×
Destination Folde Click Next to insta	r Il to this folder, d	or click Chang	e to install to a	different folder.	N.
Install M C:\Progr	icrosoft ActiveSy am Files\Microsc	ync 4.5 to: ift ActiveSync	4		⊆hange
Volume	Disk Size	Available	Required	Differences	
■C:	14GB	7340MB	32MB	7308MB	
D:	14GB	3962MB	0KB	3962MB	
■ E:	8142MB	4856MB	OKB	4856MB	
		<	<u>B</u> ack	<u>N</u> ext >	Cancel

Pic 6.2-4

5. The default installation path is 'C:\Program Files\ Microsoft ActiveSync', we can click 'Change' to change the installation path; Pic 6.2-5.

🖟 Licrosoft ActiveSync 4.5	
Ready to Install the Program The wizard is ready to begin installation.	N. A.
Setup is ready to begin installing Microsoft ActiveSync 4.5	
< Back	Install Cancel

Pic 6.2-5

6. Confirm the operating is correct before click 'Install' to continue the process of installation; Pic 6.2-6.

🔂 Licros	oft ActiveSync 4.5
Installing The proc	I Microsoft ActiveSync 4.5 gram features you selected are being installed.
ß	Please wait while the Setup Wizard installs Microsoft ActiveSync 4.5. This may take several minutes.
	Validating install
-	
	< Back Next > Cancel

Pic 6.2-6

7. After the successful installation, we can go to the followed interface:



Pic 6.2-7

8. Click 'Finish' to finish the installation, and choose 'Yes' to reboot the PC; Pic 6.2-8.

🙀 Licro	soft ActiveSync	: 4.5 Installer I 🔀
⚠	You must restart your s changes made to Micros Click Yes to restart now later.	ystem for the configuration soft ActiveSync to take effect. or No if you plan to restart
	<u>Y</u> es	No



9. After the rebooting, we can find the icon 22 on the right corner of the PC, double click it to open the ActiveSync; Pic 6.2-9



Pic 6.2-9

6.3 Update Operating System

Before updating, please backup the data: copy the data to PC or other disk like SD card. All data and applications will be erased after updating.

6.3.1 Copy System Files to SD Card

1. Format the SD card.

Note: Format the card. Do not choose 'Quick Format'. Choose the File System as 'FAT32'.

- 2. Copy the update files into the SD card.
- 3. Install SD card to the device.

6.3.2 Update OS for Windows CE

After finishing steps above, restart the device, and then press *the left button* as soon as possible; then you will see it as Figure6-3-1; choose *Update OS*, then press the yellow button on keyboard; then please wait the system update and start.



Pic 6.3-1

6.3.3 Restore Factory Settings

Before updating, please backup the data: copy the data to PC or other disk like SD card. All data and applications will be erased after updating. After finishing steps above, restart the device, and then press *the left button*

as soon as possible; then you will see it as Pic 6-3-1; choose *Restore factory settings*, then press the yellow button on keyboard; then please wait the system restore and start.

If you choose Start OS, the system will start normally.

Update Logo.bmp

Before customization, please the image with the format of bmp to TF card, and the maximum size is 240x320.

Then restart the device and press *the left button* as soon as possible; then you will see it as Pic 6-3-1; choose *Update Logo.bmp*, then press the yellow button on keyboard; then please wait the system restore and start.

7. Functional Utilization

7.1 Barcode

The barcode scan engine is mounted at the top of the device, and it should be operated properly when scanning. Pic 7-1-1, Pic 7-1-2 and Pic 7-1-3.













Pic 7-1-3

7.2 RFID

The RFID sensing zone is on the back of the device, and the tags should be put in the sensing zone before reading correctly. Pic 7-2-1.



Pic 7-2-1

High Frequency (13.56MHz)

Operating Frequency: 13.56HMZ Protocol: ISO14443A/B, ISO15693; Types of cards: HF S50, S70 and ultralight

Ultra High Frequency (840~960MHz)



Pic 7-2-2

- 1. Protocol: EPC, GEN2/ISO 18000-6C
- 2. Operating Frequency: 840~960MHz
- China Standard 920-925MHz.
- China Standard 840-845MHz.
- ETSI 865-868MHz.
- Customization 915MHz.
- 3. Power: 10~30dBm, and 24/25 dBm is recommended, the higher power, the higher battery consumption.
- 4. Antenna Gain: 3dBi.
- 5. Reading/Writing Distance: the actual distance depends on multiple elements including the tags, the using environment, the working frequency, and the power.

7.3 GPS

The GPS module allows to locate the dynamic position including longitude/latitude data of the device. It is recommended to use outdoor. Pic 7-3-1.

GPS						
0	Date:	2013-	04-19			
▼.	UTC:	04:00	:05			
Visib	le statelli	tes:	Start T	im	e:	
	07]	20:59:3	32		
Avalia	ble state	Ílites	Get Ti	me	9:	
	00		21:00:0	02		
Long	itude	113.9	171			
Latit	ude	22.57	723			
time	-consumi	ng:	30	s	ec	
Ge	t Data	<u> </u>	Stop		×	:
current t	ime=UTC	time	+local ti	me	e zon	e
🐉 GPS	I	ا 🌏 🚯	9:00 PM	۹ (<u>مہ</u>	2
	Р	ic 7-3-	1			

7.4 Camera

The camera is 5 mega pixels and supports max resolution 2592*1944.

Run *Camera* ^{Camera} from *AppCenter*, select the resolution needed, default resolution is 640*480; then click *Preview* to preview (Pic 7-4-1), and then click *Photo* take photo (Pic 7-4-2). The photos will be auto saved to My Device/Flash Disk/Photos automatically.

Camera 📃 🗴	Camera	_ ×
Photograph Record Help	Photograph Record Help	
	\Flash Disk\photos\2013)pen
Setting Preview Photo	Camera Image: Camera	
Pic 7-4-1	Pic 7-4-2	

7.5 Bluetooth

The device is using Bluetooth 2.0. Date sending/printing and file sending are supported after being connected successfully. Pic 7-5-1.



Pic 7-5-1

8. Maintenance

8.1 Equipment and System Issues

Table 8-1 Equipment and System Issues		
Issues	Solutions	
Device can't start	Ensure the battery is installed correctly; Change another piece of fully-charged battery; Restore or update the OS;	
Touch-screen doesn't work	Clean the touch screen; Recalibrate by the calibration procedure; Restart the device; Restore or update the OS;	
Screen fails to display	Check if the device is in standby mode; Restart the device; Replace with a fully-charged battery;	
Keyboard doesn't work	Check if the device is in standby status; Restart the device; Replace with a fully-charged battery;	
Battery can't be recharged	Check if the adapter is damaged; Check if the USB cable is damaged; Check if the adapter is plugged into the socket (220V); Check if the adapter is plugged firmly;	

8.2 Scanning Issues

	Table 8-2 Scanning Issues
Issues	Solutions
Press "scan" button but no action	Check if the scanner head is damaged; Check if the program is correct (please refer to DEMO for specific codes); Check if the demo is opened correctly;
No data collected after scanning	Check if the type of barcode is enabled; Check if the program is correct (please refer to DEMO for specific codes); Check if the barcode is damaged; Make sure it's in effective operating/scanning distance/range; Check if the scanning window is covered with dusts;

8.3 **RFID** Issues

Table 8-3 RFID Issues		
Issues	Solutions	
RFID tag can't be identified	Ensure the RFID module in the handheld terminal is compatible with the tags; Ensure the program is correct (please refer to DEMO); Ensure the tag being scanned is within the RFID sensing area;	
8.4 Network and Communication Issues

Issues	Solutions
Can't be recognized after USB is connected	Ensure USB cable is plugged; Check if the USB port of the device is damaged; Restart the device; Try by the other USB port of the PC; Check if Microsoft ActiveSync has been installed properly (please refer the Chapter 7); Reinstall the Activesync software;
WIFI communication is abnormal	Ensure the program is correct (Please refer to DEMO); Ensure the setting is correct (please refer to 5.1); Ensure the accessories come with WIFI connection joint, which is in effective transmission distance;
Incorrect IP address after being connected	Delete the current network connection, and reconnect; Set the static IP address manually; Disable the wireless network of the device and try once more; Check the network mode of the AP/Router by logging the admin page;

Table 8-4 Network and Communication Issues

8.5 Others

lssues	Solutions
Activeysycn Installation Failure	Disconnect the connection between the device with the PC when installing the Activesync software; Install the Activesync software correctly based on the environment PC;
SDK Installation Failure	Pay attention to the item of Documentation when installing, for more details, please refer to the document of 'Development Environment Setting Instruction';
System Updating Failure	Use Windows Xp to format the SD card, and select 'FAT32', also please do not choose 'Quick Format'; Check if the system files are copied correctly in the SD card;

9. AC Adapter & Battery Safety

9.1 Switching AC/DC Power Adapter Specification

Input: AC 100~240V, 50~60Hz, 0.28A Output: DC 5V, 2A Label: refer to the Pic 9-1.



9.2 Battery Safety Guidelines

The area in which the units are charged should be clear of debris and combustible materials or chemicals. Particular care should be taken where the device is charged in a non-commercial environment.

Follow battery usage, storage, and charging guidelines found in the user's guide.

- Improper battery use may result in a fire, explosion, or other hazard.
- To charge the mobile device battery, the battery and charger temperatures must be between +32 F and +113 F (0 and +45 C).
- Do not use incompatible batteries and chargers. Use of an incompatible battery or charger may present a risk of fire, explosion, leakage, or other hazard. If you have any questions about the compatibility of a battery or a charger, contact Chainway technical support.
- For devices that utilize a USB port as a charging source, the device shall only be connected to products that bear the USB-IF logo or have completed the USB-IF compliance program.
- To enable authentication of an approved battery, as required by IEEE1725 clause 10.2.1, all batteries will carry a Chainway hologram.
- Do not fit any battery without checking it has the Chainway authentication hologram.
- Do not disassemble or open, crush, bend or deform, puncture, or shred.
- Severe impact from dropping any battery-operated device on a hard surface could cause the battery to overheat.
- Do not short circuit a battery or allow metallic or conductive objects to contact the battery terminals.
- Do not modify or remanufacture, attempt to insert foreign objects into the battery, immerse or expose to water or other liquids, or expose to fire, explosion, or other hazard.
- Do not leave or store the equipment in or near areas that might get very hot, such as in a parked vehicle or near a radiator or other heat source. Do not place battery into a microwave oven or dryer.
- Battery usage by children should be supervised.
- Please follow local regulations to promptly dispose of used re-chargeable batteries.
- Do not dispose of batteries in fire.
- Seek medical advice immediately if a battery has been swallowed.
- In the event of a battery leak, do not allow the liquid to come in contact with the skin or eyes. If contact has been made, wash the affected area with large amounts of water and seek medical advice.
- If you suspect damage to your equipment or battery, contact Chainway to arrange for inspection

Appendix

Code Types of 1D Barcode Scanner

The 1D barcode scanner can set parameters by scanning specific *Function Barcodes*. Operation Steps: aim the scanner at a function barcode; scan it; the laser will quickly disappear if succeed, which shows that setting is successful.

1.1 Supported Code Types

Enable	Disable	
Code 39	Codabar	IATA 2 of 5
Code 128	Discrete 2 of 5	UPC A with 2 Supps.
Interleaved 2 of 5	Code 93	UPC A with 5 Supps.
UPC A	MSI	UPC E0
EAN 8	Trioptic Code 39	UPC E0 with 2 Supps.
EAN 13	Bookland EAN	UPC E0 with 5 Supps.
EAN 128	Code 11	EAC 13 with 2 Supps.
UPC E	Chinese 2 of 5	EAN 13 with 5 Supps.
ISBT 128	UPC E1	UPC E1 with 2 Supps.
	RSS-Limited	UPC E1 with 5 Supps.
	RSS-14	Coupon Code
	RSS-Expanded	

Note: the types enable / disable by default can be switched by scanning corresponding function barcodes in **Appendix Table 2**.

1.2 Transmit Code Type Character



Symbol Code ID Character (0x02) Enable



*None (0x00) Disable

If this function is enabled, scanner will recognize code type when scanning a barcode.

1.3 Enable / Disable Barcodes



UCC/EAN 128	Code 128		Bookland EAN		EAN-13		
Enable	Disable	Enable	Disable	Enable	Disable	Enable	Disable
*Enable UCC/EAN-128	Disable Code 128	*Enable Code 128	*Disable Bookland EAN	Enable Bookland EAN	Disable EAN-13	*Enable EAN-13	Disable EAN-8
(12)34=TEC-IT	AB-ab-123		9 7 8 7 8 8 6 7 0 7 7 7 7		1 234567 890128		







C3000 Handheld Terminal



C3000	
Handheld	
Terminal	

RSS-Expanded		RSS-Limited		
Disable	Enable	Disable	Enable	Disable
*Disable RSS-Expanded	Enable RSS-Expanded	*Disable RSS-Limited	Enable RSS-Limited	*Disable RSS-14