MARS-1030

WinCE. NET Rugged Portable Data Terminal

User Manual

Copyright

The documentation and the software included with this product are copyrighted 2006 by Advantech Co., Ltd. All rights are reserved. Advantech Co., Ltd. reserves the right to make improvements in the products described in this manual at any time without notice. No part of this manual may be reproduced, copied, translated or transmitted in any form or by any means without the prior written permission of Advantech Co., Ltd. Information provided in this manual is intended to be accurate and reliable. However, Advantech Co., Ltd. assumes no responsibility for its use, nor for any infringements of the rights of third parties, which may result from its use.

Acknowledgements

Intel is a trademark of Intel Corporation.

Microsoft Windows is a registered trademark of Microsoft Corp.

All other product names or trademarks are properties of their respective owners.

Part No. 2006103001 Printed in Taiwan MARS-1030 User Manual Edition 2 January 2007

Contents

Chapter	1	Introduction	2
•	1.1	About this Manual	2
	1.2	User and Product Safety	
	1.3	Declaration of conformity	
	1.4	Product Labeling	7
	1.5	System Specifications	9
	1.6	Environment Standard	
	1.7	Warranty and after service	12
	1.8	Technical Support and Assistance	12
	1.9	Document Feedback	
Chapter	2	Getting Started	. 14
	2.1	Check the package	14
	2.2	General View of the PDT	15
		2.2.1 PDT front side view	
		2.2.2 PDT back side view	15
	2.3	Charging the Battery Pack	
		2.3.1 Installing the battery pack	
		2.3.2 Charging the battery pack with a Power Adapter	
		2.3.3 Charging the battery pack with a Single Dock	
	2.4	Handling the PDT	24
		2.4.1 Starting the PDT	
		2.4.2 Power on/off	
		2.4.3 Calibration of the touch Screen	. 25
		2.4.4 Adjusting the brightness	26
		2.4.5 To mute the Sound	26
		2.4.6 Using the Stylus	26
		2.4.7 Using the Keypad	27
		2.4.8 Using Earphones and a Microphone	41
	2.5	Navigating the Display	42
		2.5.1 Setting Time and Date	42
		2.5.2 Entering the Data	43
		2.5.3 The Command Bar	43
		2.5.4 The Taskbar	44
		2.5.5 The Soft Keypad	44
		2.5.6 Setting Up a Wireless LAN	45
		2.5.7 Scanning Barcode	47
		2.5.8 Help	48
	2.6	Power Management	49
		2.6.1 Suspend Mode	49
		2.6.2 Resuming	50
	2.7	Resetting the PDT	51
		2.7.1 Software (Warm) Reset	51
		2.7.2 Cold Reset	51

Chapter	3	Setting	54
	3.1	Introduction	54
	3.2	Control Panel	
		3.2.1 Barcode Setting	
		3.2.2 Symbologies List	
		3.2.3 Bluetooth Device Properties	83
		3.2.4 Certificates	
		3.2.5 Control Center	89
		3.2.6 Date/Time	94
		3.2.7 Dialing Properties	
		3.2.8 Display Properties	
		3.2.9 Input Panel	
		3.2.10 Internet Options	
		3.2.11 Keyboard	
		3.2.12 Network and Dial-up Connections	102
		3.2.13 Owner	107
		3.2.14 Password	108
		3.2.15 PC Connection	109
		3.2.16 Power	
		3.2.17 Regional Settings	112
		3.2.18 Remove Programs	
		3.2.19 Storage Manager	
		3.2.20 Stylus	
		3.2.21 System	
		3.2.22 Volume & Sounds Properties	
	3.3	Taskbar and Start Menu	. 120
Chapter	4	Communication	122
-	4.1	Installing & Setting Up Microsoft ActiveSync	. 122
		4.1.1 Installing Microsoft ActiveSync on the Host PC	
		4.1.2 Connecting PDT to Host PC	122
	4.2	Using ActiveSync	. 123
		4.2.1 Setting up a Partnership	123
		4.2.2 ActiveSync File Synchronization	124
	4.3	Networking	. 124
Chapter	5	Software Applications	126
-	5.1	Introduction	. 126
	5.2	Software Applications	. 126
		5.2.1 Calculator	126
		5.2.2 Inbox	
		5.2.3 Internet Explorer	136
		5.2.4 Media Player	140
		5.2.5 Messenger	140
		5.2.6 Microsoft WordPad	141
		5.2.7 Remote connection	147
		5.2.8 Windows Explorer	148

5.3	DiskO	nChip	150
	5.3.1	Saving to flash	
	5.3.2	DiskOnChip location	
	5.3.3	DiskOnChip size	. 151
Appendix A	Barco	ode Setting	154
A.1		Гав	
	A.1.1	Symbology setup	
	A.1.2	Decoder setup	. 157
	A.1.3	Options	. 159
A.2	Update	e Tab	160
A.3		logies List	162
	A.3.1	Aztec	
	A.3.2	Codabar	
	A.3.3	Code 11	
	A.3.4	Code 128	
	A.3.5	Code 39	
	A.3.6	Code 49	
	A.3.7	Code 93	
	A.3.8	Composite Codes	
	A.3.9	Data Matrix	
		EAN-8	
		EAN-13	
		Interleaved 2 of 5	
		MaxiCode	
		MicroPDF417	
		OCR-A, OCR-B, US Currency	
		PDF417	
		Postnet	
		QR Code	
		Reduced Space Symbology	
		UPC-A	
		UPC-E	
		UPC-E1	
		ISBT	
		British Post	
		Canadian Post	
		Australian Post	
		IATA 2 of 5	
		Codablock F	
		Japanese Post	
		Planet Code	
		KIX (Netherlands) Post	
		MSI	
		TCIF Linked Code 39	
	A.3.34	Matrix 2 of 5	. 207

A.3.35 Korean Post	0	18	8	3	,	
--------------------	---	----	---	---	---	--

CHAPTER

Introduction

This chapter presents general information about the PDT.

Chapter 1 Introduction

Congratulations on purchasing the MARS-1030 Portable Data Terminal (PDT), a Microsoft Windows® CE .Net rugged PDT. Its special combination of features makes it perfect for using in a wide range of applications. These features are:

- Intel® XScale™ PXA255 400 MHz 32 bits RISC Processor
- Windows® CE .NET 4.2 Operating System
- 64/128/256 MB SDRAM & 64/128 MB Flash ROM
- Open Architecture: User Accessible SD/CF/PCMCIA Slot
- 240 x 320, 3.5" Color TFT Display with Touch Panel
- 1 Numeric Keyboards with LED backlight
- 802.11b Radio Support (Bluetooth Optional)
- Integrated 1D or 2D Barcode Scanner

1.1 About this Manual

The following chapters contained in this manual are:

Chapter 1:	Introduction—Presents general information about the PDT.
Chapter 2:	Getting started—Describes the basic use of the PDT.
Chapter 3:	Setting—Provides basic instructions for customizing the PDT by adjusting settings.
Chapter 4:	Communication—Describes how to use the communica- tion features of the PDT.
Chapter 5:	Software Application—Software implement procedures.
Appendix A:	Barcode Setting—Provides instructions for customizing the barcode engine.

1.2 User and Product Safety

- Do not stare into the laser beam directly or shine it into eyes.
- Never use strong pressure onto the screen or subject it to severe impact, as the LCD panel could become cracked and possibly cause personal injury. If the LCD panel is broken, never touch the liquid inside, for such contact would irritate the skin.
- Although the MARS-1030 PDT has passed IP54 standard tests for water and dust resistance, avoid prolonged exposure to rain or other concentrated moisture. For these conditions exceed the IP54 standard, and could result in water or other contaminants entering the PDT.
- Use only the approved AC Adapter with the PDT. Use of an unapproved AC Adapter could result in electrical problems, or even cause a fire or electrical shock to the user.
- Be sure that only authorized suppliers are allowed to disassemble and reassemble the device. If the device or parts has been damaged due to wrong handling, the product and parts warranty shall be void.
- Always make backup copies of all important data. This is easily one by using a cable or Single Cradle (sold as an option) to transfer data to the computer. The manufacturer is not liable for any data damage or loss caused by deletion or corruption of data when using this device or caused by a drained battery.
- Lithium-ion battery packs might get hot, explode, ignite and/or cause serious injury abused. Please follow the safety warnings listed as below:
 - Do not place the battery pack in fire or heat the battery.
 - Do not install the battery pack backwards so the polarity is reversed.
 - Do not connect the positive and negative terminals of the battery pack together with any electrically conductive object.
 - Do not carry or store battery pack together with metal objects.
 - Do not pierce the battery pack with nails, strike the battery pack with a hammer, step on the battery pack or otherwise subject it to strong impacts or shocks.
 - Do not solder directly onto the battery pack.
 - Do not expose battery pack to liquid, or allow the battery contacts to get wet.

- Do not disassemble or modify the battery pack. The battery pack contains safety and protection devices, which, if damaged, may cause the battery pack to generate heat, explode or ignite.
- Do not discharge the battery pack using any device except for the specified device. When it is used in devices other than the specified devices, the battery pack can be damaged or its life expectancy reduced. If the device causes any abnormal current to flow, it may cause the battery pack to become hot, explode or ignite and cause serious injury.
- In the event the battery pack leaks and the fluid gets into one's eye, do not rub the eye. Rinse well with water and immediately seek medical care. If left untreated, the battery fluid could cause damage to the eye.

Caution!



There is a danger of a new battery exploding if it is incorrectly installed. Do not attempt to recharge, force open, or heat the battery. Replace the battery only with the same or equivalent type recommended by the manufacturer. Discard used batteries according to the manufacturer's instructions.

Achtung!

1.3 Declaration of conformity

FCC Class B

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

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

FCC Caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

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

IMPORTANT NOTE:

FCC Radiation Exposure Statement:

This equipment complies with FCC RF radiation exposure limits set forth for an uncontrolled environment. To maintain compliance with FCC RF exposure compliance requirements, please avoid direct contact to the transmitting antenna during transmitting.

This transmitter must not be co-located or operated in conjunction with any other antenna or transmitter.

Caution: <u>Advantech declares that MARS-1030 ID: M82-MARS-</u> <u>1030 is limited in CH1~CH11 for 2.4GHz by specified firmware</u> <u>controlled in U.S.A.</u> The FCC ID of MARS-1030 is **M82-MARS-1030**

CE

This product has passed the CE test for environmental specifications. Test conditions for passing included the equipment being operated within an industrial enclosure. In order to protect the product from being damaged by ESD (Electrostatic Discharge) and EMI leakage, we strongly recommend the use of CE-compliant industrial enclosure products.

IMPORTANT FOR LASER PRODUCTS

- 1. Class II Laser Product
- Caution use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.
- 3. "Laser Radiation—Do not stare into beam"
- 4. Do not allow young children to use the product without adult supervision.
- 5. Do not replace/repair the LED/Laser. These are not user replaceable.
- 6. Do not shine the LED/Laser on a reflective surface.

The PDT has several labels as shown in Figure 1-1 and 1-2.

Figure 1.1: Product Labeling (Front side view)



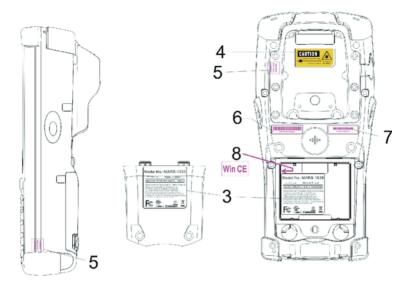


Figure 1.2: Product Labeling (Back side view)

1.5 System Specifications

The MARS-1030 PDT detailed specifications follow. Unless otherwise noted, all the specifications are subject to change without prior notification.

Table 1.1: System Specification				
MARS-1030				
Processor	- 400 MHz Intel PXA255 32 bits RISC CPU			
Memory	 64 or 128 MB Flash ROM 64,128 or 256 MB SDRAM 			
Display	 240 x 320 3.5" TFT 256K Color LCD with LED backlight 			
Audio	 One mono speaker 2.5 mm DIA Stereo Earphone Jack with Microphone input 			
Radio Support	 Wireless LAN: 802.11b (optional) Bluetooth: Class II (optional) 			
Communication Ports	 USB: Support USB v1.1 both host and client. (PDT and Cradle) Serial: RS-232 via optional cable or Cradle. 			
Scan Engine (Optional)	 Opticon Laser (1D) Engine HHP 2D Imager. 			
Expansion Slot	 One Compact Flash Type-II slot One PCMCIA slot One SD Card slot (supports SD memory only) 			
LED	 One Triple-Color LED for Charger Indicator and Alarm Notification One Dual-Color LED for Scanner Indicator 			
Power System	 Standard Li-Ion Battery Pack, 3.7 V, 3000 mAh Advanced Smart Battery with Gas-Gauge Built-in Battery Charger 2.4 V / 15 mAh rechargeable backup battery One Battery Cover Sensor Switch Power Adapter: 100 ~ 240 V AC, 50/60 Hz Input; 5 V DC / 2.6 A, 3 A Output 			

Button/Key	 Power button 4-way navigation button 4 Application Keys 3 Scanner Enable Keys SW Reset input button 16 Alpha-numeric key keyboard
Dimensions and Weight	 Dimensions: 192.5 mm (L) x 91.3 mm / 78 mm (W) x 42.2 mm / 60.6 mm (H) Weight: 560 g with Standard Battery Pack 500 g without Battery Pack
Color	- Black
Standard positing list	 Standard Packing list: MARS-1030 Terminal Stylus USB Client Cable for Terminal Earphone/ Microphone Set Standard AC Adapter 5 V DC / 2.6 A AC Power Cord Standard Battery Pack (3.7 V, 3000 mAh) CF Support Guide Quick Guide
Standard packing list and Optional accessories	 Optional Accessory: 1. RS-232 Serial Cable for Terminal 2. USB Host Cable for Terminal 3. High-Capacity Li-Ion Battery Pack (3.7 V, 4000 mAh) 4. RFID Card Cover 5. Single Dock 6. Pistol Grip 7. 4-Slot Battery Charger 8. Car Adapter 9. Holster 10. Protect Film
Software	- Microsoft Windows CE.NET 4.2 Professional

1.6 Environment Standard

Table 1.2: Environment Standard			
Operating Temperature	14 ~ 122° F (-10 ~ 50° C)		
Storage Temperature	-4 ~ 158° F (-20 ~ 70° C)		
Humidity	5 ~ 80% (non-condensing)		
Drop	5 ft (1.5 m) Drop to Concrete		
Water & Dust proof	IP54 Certificated		
Vibration	MIL STD 810F		

1.7 Warranty and after service

Should this PDT malfunction, please contact your original retailer providing information about the product name, the serial number, and the details about the problem.

1.8 Technical Support and Assistance

- 1. Visit the Advantech web site at **www.advantech.com/support** where you can find the latest information about the product.
- 2. Contact your distributor, sales representative, or Advantech's customer service center for technical support if you need additional assistance. Please have the following information ready before you call:
 - Product name and serial number
 - Description of your peripheral attachments
 - Description of your software (operating system, version, application software, etc.)
 - A complete description of the problem
 - The exact wording of any error messages

1.9 Document Feedback

To assist us in making improvements to this manual, we would welcome comments and constructive criticism. Please send all such - in writing to: support@advantech.com



Getting Started

This chapter describes the basic use of the PDT.

Chapter 2 Getting Started

2.1 Check the package

Open the package and check that nothing is missing or damaged.

Figure 2.1: Inside the package



- 1. MARS-1030 Terminal
- 2. Standard Battery Pack (3.7 V, 3000 mAh)
- 3. Earphone/Microphone Set
- 4. Stylus
- 5. USB Client Cable for Terminal
- 6. CF Support Guide
- 7. Standard AC Adapter 5 VDC / 2.6 A
- 8. AC Power Cord
- 9. Quick Guide (Not Shown)

2.2 General View of the PDT

2.2.1 PDT front side view

Figure 2.2: PDT Front side view



2.2.2 PDT back side view





Tab	le 2.1: Description of PL	DT General View		
4		"Red" color	Reading barcode	
1 Scanner LED Indicator		"Green" color	Successful reading	
2	Charge LED Indicator	"Red" color	Charging battery	
2	Charge LED Indicator	"Green" color	Battery charged full	
3	LCM / Touch Panel	Do specific actions wi stylus	th touch panel and	
4	Left Scan key Right Scan key Scan key	Start scanning the bar one of these three sca	rcode by pressing any an keys	
5	Power key	Puts the terminal into nal from suspend mod		
6	F1 ~ F4 key	Four application progr as defined by the end	am keys and hot keys user.	
7	Navigation key	Navigation keys for le directions	ft, right, up and down	
8	Alphanumeric keys	Numeric keys, Change to Alphabetic keys after pressing Alphabetic key		
9	Alphabetic key	Toggle Alphabetic-mode for Alphanumeric keys		
10	Fn key	This key is used in combination with other keys to type special characters and perform system functions.		
11	Enter key	This key confirms dat	a entry	
12	Earphone Jack Con- nector	A connector to plug a	earphone	
13	USB / Serial / Synchro- nization port	A connector to suppo and serial functions	rt USB Host/Client	
14	Scan window	A window for scanning	g of barcode reader	
15	Stylus	Use the stylus for selecting items and enter- ing information.		
16	Battery Cover	Protects the battery pack and keeps the battery switch covered to keep the system in suspend mode		
17	Battery Cover Latch	To keep the Battery C	over locked	
18	Hand-strap	This strap can be sea	led tighter or looser	
19	Speaker	1.5 W speaker for audio sound		
20	DC Power Jack	A connector to suppo	rt AC power.	

21	End Cap	Protects the CF and SD slots from dust and
21		water

2.3 Charging the Battery Pack

Charge the battery pack before using the PDT by following these steps.

2.3.1 Installing the battery pack

1. Detach and loosen the hand-strap.

Figure 2.4: Release the hand-strap from PDT



2. Turn the locking screws (right and left) downwards and lift the battery cover away from the PDT.

Figure 2.5: Detach the battery cover from PDT



3. Insert the battery pack into the battery compartment with the label facing out, and ensure the battery snaps into place.

Figure 2.6: Insert the battery pack



4. Replace the battery cover by inserting the top first, and then press the bottom in firmly. Turn the locking screws (right and left) upwards to secure the cover to the PDT.



Figure 2.7: Replace the battery cover

5. Charge the battery pack for about 6 hours, when charging for the first time. Subsequent charges need about 4 hours.

When charging the battery pack, the charge indicator on the PDT turns Red. After the battery pack is fully charged, the indicator turns Green.

2.3.2 Charging the battery pack with a Power Adapter

- 1. Connect the Power cord to the Power adapter.
- 2. Plug in the connector of the power adapter.
- 3. Connect the power cord to a power source.

Figure 2.8: Charging with a power adapter



When charging the battery pack, the charge indicator on the PDT turns Red. After the battery pack is fully charged, the indicator turns Green.

2.3.3 Charging the battery pack with a Single Dock

- a) Leave the battery pack inside the PDT
- 1. Connect the power cord to the power adapter.
- 2. Connect the power cord to a power source.
- 3. Plug in the connector of the power adapter into the Single Dock.
- 4. Insert the PDT into the Single Dock.



Figure 2.9: Charging with a Single Dock

When charging the battery pack, the charge indicator on the PDT turns Red. After the battery pack is fully charged, the indicator turns Green.

CAUTION: Single Cradle Adapter supplies 5 V DC / 6.5 A. This is different from the PDT Adapter (5 V DC / 2.6 A). Please use the Single Cradle Adapter only.

- b) Place the spare battery pack into the Single Cradle's spare Battery charging slot.
- 1. Connect the power cord to the power adapter.
- 2. Connect the power cord to a power source.
- 3. Plug the connector of the power adapter into the Single Cradle.
- 4. Insert the battery pack into the Single Cradle's spare Battery slot.

When charging the battery pack, the charge indicator on the PDT turns Red. After the battery pack is fully charged, the indicator turns Green.

CAUTION: If the battery pack is removed from the PDT for too long, the data stored inside the SDRAM will be lost. Switch off the PDT if you want to change the main battery pack.

2.4 Handling the PDT

2.4.1 Starting the PDT

Press the power key to turn on/off the PDT. If the PDT does not power on, perform a cold boot. See "Resetting the PDT" on page 51.

CAUTION: When a battery is inserted into the PDT for the first time, upon the PDT's first power up, the device boots and powers on automatically.



When the PDT is powered on for the first time, it initializes its system. A splash screen appears for a short period of time followed by the Win CE .NET 4.2 window.

Figure 2.10: Starting the PDT

2.4.2 Power on/off

To turn on the PDT:

Press the power key briefly (). If the PDT does not power on, perform a cold reset. See "Resetting the PDT" on page 51.

As the PDT initializes its file system, it shows a splash screen for about 30 seconds followed by calibration screen. Every time you perform a cold reset, these screens will also appear.

To turn off the PDT, just press the power key again. This action does not actually turn off the PDT, it only puts the PDT into suspend mode. All running applications remain as you left them, until you press the power key again to resume operation of the PDT.

2.4.3 Calibration of the touch Screen

On the initial boot-up of the PDT, the stylus calibration screen (Labeled Align Screen) opens. Briefly press and hold the stylus on the center of each target as it moves around the screen.

If necessary, adjust the backlight on the PDT to make the screen readable.

The touchscreen can be recalibrated at any time using **Start** > **Settings** > **Control Panel** > **Stylus**, to open the Calibration program.



Figure 2.11: Calibration

2.4.4 Adjusting the brightness

Middle brightness is the factory default. You can adjust the brightness to meet your environment and comfort as follows.

• Press the Fn key and then press on the right key of Navigation

key 🛴 🦒 to increase brightness.

• Press the Fn key and then press on the left key of Navigation

key $\langle \langle - \cdot \rangle$ to decrease brightness.

• The display will become dimmer automatically, if you do not perform any operation for a specific period of time. This helps to save battery power.

2.4.5 To mute the Sound

To mute the sound, press the **F**n key first, and then press the **ESC** key to turn the sound off or on.

2.4.6 Using the Stylus

The stylus is located next to the hand-strap on the left rear side of the PDT as illustrated in "PDT back side view" on page 15. The stylus function is same as the mouse on a PC. Use the stylus to:

Navigate the display, select menu items and open applications.

Type characters on soft keyboard panel.

Select an item from a drop-down list.

CAUTION: Never use a pen, pencil, or other sharp object on the display to avoid damage of the touch screen.

2.4.7 Using the Keypad



Figure 2.12: MARS-1030 Keypad

Key Main Function Fn + Main Function Alphabetic + Main Function None. (Reserved for Customer) None. (Reserved for Customer) None. (Reserved for Customer) Main Barcode Scan Key Main Barcode Scan Key None. (Reserved for Customer) Power On/Off Power On/Off F1 Internet Explorer Internet Explorer F2 Microsoft WordPad Internet Explorer F3 Inbox Internet Explorer F4 File Explorer Backlight Increase F4 File Explorer Internet Explorer F4 Left Backlight Decrease Image Down Page Down Internet Explorer Image Down Page Up Image Down Image Exclared ESC Audio Mute € Backspace TAB (Tabulation), Caps Caps	Table 2.2:	Table 2-2 Keypad List		
Customer) Main Barcode Scan Key O Power On/Off F1 Internet Explorer F2 Microsoft WordPad F3 Inbox F4 File Explorer Inbox F4 Faght Backlight Increase Increase Inbox Index F4 F1 Left Backlight Decrease Index Index Index Internet Explorer Internet Explorer <th>Key</th> <th>Main Function</th> <th></th> <th>Main</th>	Key	Main Function		Main
Key Ower On/Off F1 Internet Explorer F2 Microsoft WordPad F3 Inbox F4 File Explorer Inbox Backlight Increase Increase Backlight Decrease Image: Down Page Down Image: Down Page Up Image: Down ESC Audio Mute €	\bigcirc			
F1 Internet Explorer F2 Microsoft WordPad F3 Inbox F4 File Explorer image: state sta				
F2 Microsoft WordPad F3 Inbox F4 File Explorer F4 File Explorer Image: A structure Backlight Increase Image: A structure Backlight Increase Image: A structure Backlight Increase Image: A structure Backlight Decrease Image: A struc	C	Power On/Off		
F3 Inbox F4 File Explorer F4 File Explorer Image: Second structure Backlight Increase Image: Second structure Backlight Decrease Image: Second structure Down Page Down Image Down Image: Second structure ESC Audio Mute €	F1	Internet Explorer		
F4 File Explorer Image: File Explorer Backlight Increase Image: File Explorer Backlight Increase Image: File Explorer Backlight Decrease Image: File Explorer Down Image: File Explorer Backlight Decrease Image: File Explorer Down Image: File Explorer Backlight Decrease Image: File Explorer Down Image: File Explorer Down Image: File Explorer Down Image: File Explorer Down Image: File Explorer Explorer Image: File Explorer Explorer <	F2	Microsoft WordPad		
Image: Explored Right Backlight Increase Image: Explored Backlight Decrease Image: Down Page Down Image: Down Page Up Image: Esc Audio Mute	F3	Inbox		
Right Increase Increase Left Backlight Decrease Plot Down Page Down Image Down <td>F4</td> <td>File Explorer</td> <td></td> <td></td>	F4	File Explorer		
Leit Decrease Page Down Page Down Image Down Page Up ESC ESC Audio Mute	**	Right		
Image Down Page Down Image Down Page Up Image Down Page Down Image Down	<-*	Left		
Up Page Up ESC Audio Mute	PgDn	Down	Page Down	
5 e	(-)	Up	Page Up	
Backspace TAB (Tabulation) Caps	$ESC_{s_{\epsilon}}$	ESC	Audio Mute	€
	BS _{Caps}	Backspace	TAB (Tabulation)	Caps

Alpha	Change to letters		
Кеу	Main Function	Fn + Main Function	Alphabetic + Main Function
Fn	Function change		
1:\	1	(at)	
2 ABC	2	3	
3 DEF	3	(Plus Sign)	
4 _{GHI}	4	Paste	
5 JKL	5	Del (Delete)	
6 _{мNO}	6	(Minus Sign)	
7 PORS	7	Сору	
8 _{עעד}	8	(AND)	
9 _{wxyz}	9	(Asterisk)	
0 []	0	Space	
• •	. (Point)	Start Menu	
****	Enter	(Backslash)	

Table 2.3: Special Key Combinations		
Key Combination	Functionality	Definition
F1 F4	Warm Reset	Press "F1 " and " F4 " simulta- neously.
(U) F1 F4	Cold Reset	Press "Power ", "F1 " and "F4 " simultaneously.

MARS-1030 User Manual

Table 2.4: Defin	ition of Main Functi	on
Key	Main Function	Definition
\bigcirc	None.	Keep its function or by customer demand.
	Main Barcode Scan Key	The key activates the scan function of MARS-1030.
C	Power On/Off	The 🕑 key puts the terminal into and out of suspend mode.
F1	Internet Explorer	Application key 1. This key can be redefined.
F2	Microsoft WordPad	Application key 2. This key can be redefined.
F 3	Inbox	Application key 3. This key can be redefined.
F4	File Explorer	Application key 4. This key can be redefined.
**>	Right	Move the cursor one character to the right. The cursor will move continuously if this button is pressed continuously.
«-*>	Left	Move the cursor one character to the left. The cursor will move con- tinuously if this button is pressed continuously.
PgDn	Down	Move the cursor down one row or line. The cursor will move continu- ously if this button is pressed con- tinuously.
PgUp	Up	Move the cursor up one row or line. The cursor will move continu- ously if this button is pressed con- tinuously.
ESC	ESC	This key performs a cancel action

Key	Main Function	Definition
BS _{Caps}	Backspace	"Backspace" key, it moves the cursor back one space each time the key is pressed. It deletes the previous character each time it is pressed if you are typing text. The cursor will move continuously if this button is pressed continu- ously.
Alpha	Change to letters	 The Alpha key enables you to toggle between the numeric and alphabetic modes. Numeric mode is when you type numbers with number keys. Alphabetic mode is when you type letters with the number keys. When you press the Alpha key, an "Alphabetic" icon appears on the taskbar to indicate alphabetic mode is enabled. The keypad stays in the alphabetic mode until you press the Alpha key again.
Fn	Function change	The Fn key is used in combi- nation with other keys to type spe- cial characters and perform system functions.

Key	Main Function	Definition
1 : N	1	Number key "1"
2 ABC	2	Number key "2"
3 DEF	3	Number key "3"
4 _{GHI}	4	Number key "4"
5 JKL	5	Number key "5"
6 _{MNO}	6	Number key "6"
7 PORS	7	Number key "7"
8 _{vuv}	8	Number key "8"
9 wxyz	9	Number key "9"
0	0	Number key "0"
• **		Point key
+	Enter	This key confirms data entry

2.4.7.1 Special Function and Character Access

The "Fn" key is used in combination with other keys to type special characters and perform system functions.

Table 2.5: Specie	l Function K	Key Definitions
Key Sequence	Fn + Main Function	Definition
		Increase the LED backlight brightness of display screen (Lighter)
Fn	Backlight Increase	You must press the Fn key, then the key to increase backlight bright- ness.
		Decrease the LED backlight brightness of display screen (darker)
Fn (-*)	Backlight Decrease	You must press the Fn key, then the key to decrease backlight bright-ness.
~		Move the cursor down one page. The cursor will move continuously if this button is pressed continuously.
Fn Pg0n	Page Down	You must press the Fn key, then the key to move the cursor down one page.
		Move the cursor up one page. The cursor will move continuously if this button is pressed continuously.
Fn PgUp	Page Up	You must press this Fn key, then the key to move the cursor up one page.
Fn ESC _{se}	Audio Mute	Mute or enable audio. Press the Fn key, then the Esc, key to mute or enable audio.

Key Sequence	Fn + Main Function	Definition
Fn BS _{Caps}	TAB (Tabulation)	The "TAB" function moves the cursor to the next tab stop or the next control on a form. Press the Fn key first, and then press the BS _{CPP} key.
Fn 1 : \	@ (at)	Enter an {@, at} symbol by pressing the Fn key, then the the key.
Fn 2 ABG	,	Enter a $\{'\}$ by pressing the Finch key, then the $2 \sqrt{100}$ key.
Fn 3 DEF	(Plus Sign)	Enter a plus sign by pressing the Fn key, then the 3 we key
Fn 4 GHI	Paste	Paste objects by pressing the Fn key, and then the 4 key.
Fn 5 JKL	Del (Delete)	Delete the next character by pressing the Fn key, and then the 5 key.
Fn 6 MNO	(Minus Sign)	Enter a minus sign by pressing the Fn key, then the 6 key.
Fn 7 _{Pors}	Сору	Copy objects by pressing the Fn key, then the 7 ross key.

Key Sequence	Fn + Main Function	Definition			
Fn 8 10	(Amper- sand)	Enter an ampersand sign by pressing the Fn key, then the 8 wey.			
Fn 9 _{wxyz}	(Asterisk)	Enter an asterisk by pressing the Fn key first, and then the 9,000 key.			
Fn 0 ⁽¹⁾	Space	Enter a space by pressing the Fn key, and then the			
Fn • ¹³	Start Menu	Enter the Start Menu by pressing the Fn key, and then the key.			
Fn 🕶 *	(Back- slash)	Enter a backslash by pressing the Fn key, and then the Key.			

2.4.7.2 Alphabetic plane keys

The key enables you to toggle between the numeric and alphabetic modes. Numeric mode is when you type numbers with number keys. Alphabetic mode is when you type letters with the number keys.

When you press the Alpha key, an "Alphabetic" icon appears on the Taskbar to indicate Alphabetic mode is enabled. The keypad stays in the

alphabetic mode until you press the Alpha key again. For example to

type "cap1", press Alpha $2 \mu c$ $2 \mu c$ $2 \mu c$, wait 0.5 seconds, then press $2 \mu c$ $7 \mu cars$ Alpha $1 \therefore$. If you want to type a lowercase "c", press Alpha $2 \mu c$ $2 \mu c$

2 . The Alpha key is needed if it's the first alphabetic character. If a letter that is on the same key as the last letter entered, wait two seconds after you pressed the last key, before you can enter the next letter.

While you are in Alphabetic mode, press the BS_{Caps} key to enable Caps Lock.

An "A" icon appears on the Taskbar during Caps mode.

Table 2.6: Alphabetic + Numeric keys define							
To enter	Press the Keys	eys To enter Press the Keys					
\$	Alpha $ESC_{s\epsilon}$	€	Alpha $ESC_{se} ESC_{se}$				
Caps	Alpha BS _{Caps}						
:	Alpha 1 : \	١	Alpha $1 : \sqrt{1} : \sqrt{1}$				
a	Alpha 2 ABC	А	Alpha BS_{caps} 2 $_{FB}c$				

To enter	Press the Keys	To enter	Press the Keys
b	Alpha 2 xec 2 xec	В	Alpha BS _{Caps} 2 ABC
с	Alpha 2 ABC 2 ABC 2 ABC	С	Alpha BS _{Caps} 2 ABC 2 ABC 2 ABC
d	Alpha 3 DEF	D	Alpha BS _{Capa} 3 _{DEF}
e	Alpha 3 DEF 3 DEF	Е	Alpha BS _{Caps} 3 DEF
f	Alpha 3 def 3 def	F	Alpha BS _{Caps} 3 DEF
g	Alpha 4 GHI	G	Alpha BS _{Capa} 4 _{GHI}
h	Alpha 4 gHI 4 GHI	Н	Alpha BS _{Caps} 4 _{GHI}
i	Alpha 4 _{GHI} 4 _{GHI}	Ι	Alpha BS _{Caps} 4 _{GHI}
j	Alpha 5 JKL	J	Alpha BS _{Caps} 5 JKL
k	Alpha 5 JKL 5 JKL	К	Alpha BS _{Caps} 5 jkt. 5 jkt.
1	Alpha 5 , KL 5 , KL 5 , KL	L	Alpha BS _{caps} 5 jkt. 5 jkt. 5 jkt.
m	Alpha 6 MNO	М	Alpha BS _{Capa} 6 MNO

MARS-1030 User Manual

To enter	Press the Keys	To enter	Press the Keys
n	Alpha 6 MNO 6 MNO	N	Alpha BS _{Caps} 6 MNO
0	Alpha 6 MHO 6 MHO	0	Alpha 6 MNO 6 MNO
р	Alpha 7 _{PORS}	Р	Alpha BS _{Caps} 7 _{PQRS}
q	Alpha 7 _{Pors} 7 _{Pors}	Q	Alpha BS _{Caps} 7 _{PORS}
r	Alpha 7 PORS 7 PORS	R	Alpha BS _{Caps} 7 _{PORS}
S	Alpha 7 PORS 7 PORS	S	Alpha BS _{Caps} 7 _{PORS} 7 _{PORS} 7 _{PORS} 7 _{PORS}
t	Alpha 8 رسب	Т	Alpha BS _{Caps} 8 روپر
u	Alpha 8 τυν 8 τυν	U	Alpha BS _{Caps} 8 TUV
V	Alpha 8 τυν 8 τυν 8 τυν	V	Alpha BS _{cape} 8 _{TUV}
w	Alpha 9 _{wxyz}	W	Alpha BS _{caps} 9 _{WXYZ}
х	Alpha 9 _{wxyz} 9 _{wxyz}	Х	Alpha BS_{caps} 9_{WXYZ}

To enter	Press the Keys	To enter	Press the Keys
	Alpha 9 _{wxyz} 9 _{wxyz}	37	Alpha BS _{Caps} 9 _{WXYZ}
У	9 _{wxyz}	Y	9 _{wxyz} 9 _{wxyz}
	Alpha 9 _{wxyz} 9 _{wxyz}	7	Alpha BS _{Caps} 9 _{WXYZ}
Z	9 _{wxyz} 9 _{wxyz}	Z	9 _{wxyz} 9 _{wxyz} 9 _{wxyz}
[Alpha 0]	Alpha 0 ^[1] 0 ^[1]
,	Alpha ,;	;	Alpha • ;; • ;;
=	Alpha 🔶 = %	%	Alpha + * + *

Note:

- The Alpha key is not needed to key in a character if it isn't the first alphabetic character being keyed in.
- The BS_{ceps} key is not needed to key in a character if it isn't the first capital alphabetic character being keyed in.

2.4.8 Using Earphones and a Microphone

Connect earphones and a microphone to PDT earphone jack connector. The PDT doesn't have a built in microphone; if you want to make voice recordings, you have to use an external microphone.



Figure 2.13: Earphones

2.5.1 Setting Time and Date

In the **Date/Time** options, you can change the year, month, date, time, time zone, or select automatically adjust for Daylight Saving Time. To set or change the date and time:

Date	/Tin	ne P	rop	erti	es		? 0	К	×
Date	/Tim	e							
	•		Maro	:h 2	2006	5	►		
	<u>8</u> 26 5 12 19 26 2	M 27 6 13 20 27 3	T 28 7 14 21 28 4	W 1 15 22 29 5	T 9 16 23 30 6	F 3 10 17 24 31 7	5 4 11 18 25 1 8		
Time			L7:0	2 PN	1		-		
	T-08		Pac	ific 1	Fime	(US	8 C	ai 🗖	-
	lock					ng [<u>A</u> pp	ly]
27 🚽	<i>9</i> Da	te	3	۴	12	:17	PM 🚦		٩.

Figure 2.14: Date/Time properties

- 1. Select Start > Settings > Control Panel > Date/Time
- 2. To change the year, select the year or open a numeric dial. Select the up arrow to increase the value; select the down arrow to decrease the value. Or you can type a new value in the field.
- 3. Select the month to open a pull-down list of months or press the arrow buttons on either side of the month to increase or decrease the month.
- 4. To change the time, select the hour, minute, second, or AM/PM value, then select the up arrow to increase the value or select the down arrow to decrease the value, or type a new value into the field.
- 5. Select the correct time zone from the pull-down list.
- 6. To automatically adjust the clock for Daylight Saving Time, enable the checkbox at the bottom of the screen.
- 7. Select **Apply** to save your changes [and make additional modifications] or select **OK** to exit the **Date/Time** settings.

2.5.2 Entering the Data

To select and open programs, select **Start > Programs** from the taskbar to open a list of available programs. Or if the program has a icon on the desktop, double-tap it to open it.

There are several ways to enter data on the PDT once in an application.

- Use the keypad to enter alphanumeric characters, Refer to "Using the Keypad" on page 27.
- Use the keypad to enter alphanumeric characters, Refer to "Using the Stylus" on page 26.
- Select text in the same way you select the text on a PC. Use the stylus to highlight the desired text by dragging the stylus across the desired text; double-tapping to select one word and triple-tapping to select an entire line/paragraph. Refer to "Navigating the Display" on page 42.
- Use the soft input panel (digital keyboard) with the stylus. Refer to "The Soft Keypad" on page 44.
- Use barcode scanning to enter data. Press the trigger or "Bar Code Start" key to initiate a scan. The scanned data will enter the current application's open file. Refer to "Scanning Barcode" on page 47 for more information on using a scanner.

For more information on factory installed applications, Refer to "Software Applications" on page 126.

2.5.3 The Command Bar

Use the **Command** bar at top of the screen to perform tasks in programs, such a opening or editing a file.

2.5.4 The Taskbar

The **Taskbar** at the bottom of the screen displays an icon for the active program, the current time, and system icons for utilities loaded in memory. The **Taskbar** includes menu names, buttons, and the keyboard icon, which opens and closes the soft input panel (SIP). The **Taskbar** allows you to select and close programs.

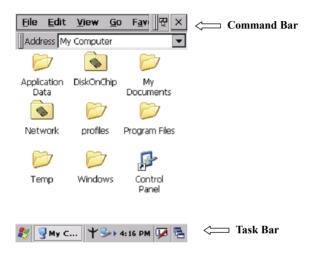


Figure 2.15: Taskbar & Command Bar

2.5.5 The Soft Keypad

In applications that accept keypad input, the soft input panel (SIP) can be used to enter data using the stylus. The SIP is a digital, QWERTY-style keyboard.

To open the **SIP**, tap the **keyboard** icon to open the menu and select **Hide Input Panel** to close the keyboard.

Use the stylus to select letters, numbers, or symbols from the **Soft Input Panel** for the current application.

2.5.6 Setting Up a Wireless LAN

- 1) Press "Start" > "Settings" > "Control Panel" > "WLAN Manager".
- 2) Launch the WLAN Manager to Enable the WLAN device.
- 3) In the AP Browser tab, tap the Scan button to refresh the network.
- 4) Select a network, tap the Join button or double tap it for more options.
- 5) Press OK to save all your Wireless LAN settings.
- 6) Tap the "Exit" button to **Disable** the WLAN device.

WLAN Manager OK 🗙	WLAN Manager	OK ×
State Configuration AP Browser	State Configuration AP Brows	ier 💶 🕨
Current Status SSID: N/A	ESSID BSSID company 00:13:49:2F:1A:F0	Channe 2
BSSID: N/A	company2 00:12:A9:D0:82:F2	7
MAC Addr: N/A		_
Channel: N/A Tx: N/A		_
Link Quality: N/A		_
Signal Level: N/A		_
IP Info Exit		►
	Scan Join	
🐉 WLAN 🅪 🏌 12:01 AM 🧏 🕾	🐉 WLAN 🖻 🌾 12:03 AF	• 💅 🗟

Figure 2.16: WLAN Manager Figure 2.17: WLAN Manager

Note:

×	The 802.11b WLAN is not connected to the network.
+	The 802.11b WLAN has no signal.
+	The 802.11b WLAN signal is low.
¥.	The 802.11b WLAN signal is OK.
¥	The 802.11b WLAN signal is good.

WLAN Manager OK 🗙	WLAN Manager OK 🗙
State Configuration AP Browser	AP Browser Link About
Current Status	Configuration Utility
BSSID: 00:13:49:2F:1A:F0	Version: 1.11 Dec 13 2005
MAC Addr: 00:60:83:2A:0D:73 Channel: 2 Tx: 11Mbps	Network Driver Version: 3.1.3.651 2005.11.20
Link Quality: 100%	Firmware
IP Info Exit	FCC Copyright (C) IEEE 802.11b
🎝 🕷 WLAN M 🦛 🗿 12:04 AM 🧏 🔁	💱 WLAN M (* 🔋 4:51 PM ½ 🖻

Figure 2.18: WLAN Manager Figure 2.19: WLAN Manager

2.5.7 Scanning Barcode

To use the scanning function, complete the following steps:

- 1. If you have not already done so, remove the protective plastic film before using devices equipped with a laser scanner.
- 2. Select **Start > Settings > Control Panel > Barcode Setting**. Configure settings as described in "Barcode Setting" on page 55.
- 3. Start WordPad.
- 4. Aim the scanning beam at the center of bar code.
 - Position the device close to bar code when scanning
 - Position the device further away when scanning larger bar codes.
 - The scanner is disabled after you release the key or after five seconds.
- 5. Press the right/left/central scan key. The scanner scans as long as you hold the key or for five seconds.
- 6. Upon reading a bar code, the red LED indicator comes on until the trigger is release or five seconds. The green LED and the beep tone indicate a good read.



- Barcode Scanning Position This device can read from 40 to 300 mm.
 - Position the laser scanner close to the barcode when scanning small barcodes and position it further away from the barcode when scanning large barcodes.
 - The reader emits a red beam.



- 8. Bad Scanning Position
 - Make sure that the bars enter the laser beam when scanning large barcodes.
 - Scanning operations may fail if the laser beam is in the positions shown below.



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

2.5.8 Help

To tap "?" can get help information for each program.

2.6 Power Management

2.6.1 Suspend Mode

The PDT will go into a suspend mode when it is idle for a period of time. The idle duration can be customized using the **Power** control panel. Suspend mode works and looks just like you have turned the unit off. Press the key to suspend the PDT, Press the key again for the PDT to resume its Previous state.

Use the **Battery power** control panel to set the duration to switch state to Suspend mode when the system is using battery power. This will save battery power when the PDT is not in use.

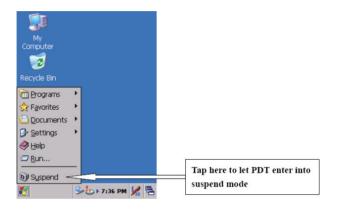
Figure 2.20: Schemes Tab

Power Properties	? 0K ×
Battery Schemes Device	Status
Power Scheme:	Â
Battery Power	.
Switch state to Suspend:	
After 5 minutes	•
After 4 minutes	
After 5 minutes	
After 10 minutes	
After 30 minutes	-
Never	5 AM 🔽 📥

Suspending:

The following conditions will suspend:

- Press the <Power> key while the unit is on.
- The "Switch state to Suspend" time expires, which indicates that there has been no use for a specified of time.
- The battery pack is completely discharged.
- Tap Start > Suspend



2.6.2 Resuming

Use one of following methods to resume (wake up the PDT):

- Press the **<Power>** key to suspend or resume (wake up).
- Put the PDT into a dock.

When a battery pack completely discharges while the unit is in suspend mode, the PDT remains suspended until the battery is charged.

2.7.1 Software (Warm) Reset

A warm reset is a transition from the on, idle, or suspend power state that closes all applications and clears the working RAM, but preserves the file system.

Reason to Warm Reset: If an application "hangs", initiate a warm reset to terminate the application only.

Warm Reset Process: To execute a warm reset, press the "F1" and "F4" buttons simultaneously.

After Warm Reset:

- The desktop appears with the application shortcuts on the screen.
- The custom settings in the registry are persistent.

2.7.2 Cold Reset

You can use Cold Reset to a initiate device if the Win CE .NET OS locks up or the Warm Reset still doesn't work.

To perform a Cold Reset, press "**Power**", "F1" and "F4" buttons simultaneously.

Devices will initiate after Cold Reset.

CAUTION: Try warm reset before Cold Reset. All applications will be Closed and working RAM and all files will be cleared if you initiate a Cold Reset. It's better usually to back up your files to Flash ROM, Flash Card or PC.

MARS-1030 User Manual



Setting

This chapter provides basic instructions for customizing the PDT by adjusting settings.

Chapter 3 Setting

3.1 Introduction

To view the available options for the PDT's settings, tap **Start > Settings**. There are three items inside **Settings**: "**Control Panel**", "**Network and Dial-up**" and "**Taskbar and Start**".

3.2 Control Panel

To view the **Control Panel** and settings tapping **Start > Settings > Control Panel**.

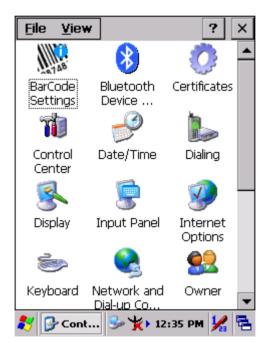


Figure 3.1: Control Panel

3.2.1 Barcode Setting

CAUTION: Please do not enter any Barcode Applications before completing barcode configuration.



There are three tabs for scanner configuration setting: "**Basic**", "**Code Configure**" and "**Code ID**". In addition, there is a "**Barcode Setup**" for the "Code Configure" tab.

3.2.1.1 "Basic" Tab

BarCode Settings	ок 🗙		
Basic Code Configure	Code ID		
Scanner Behaviors –			
Beep After Scan OK:	One Time 💌		
Scan Timeout (sec):	5 💌		
Termaination Code:			
Continuous Scan:	Disable 💌		
Keybd Message: Copy	/ & Paste 💌		
Prefix: Suf	fix:		
Default	F/W Ver.		
Set All To Default			
🐉 BarCode 🞐 🏌	9:54 PM 🧏 🖶		

Figure 3.2: Basic Tab

Table 3.1: Basic Explanation				
Field Name	Function Explanation			
	Select the number of beep tones after a successful scan.			
Beep After Scan OK	None	After scanning the barcode, do not beep.		
Beep Alter Scall OK	<u>One Time</u>	After scanning the barcode, beep once.		
	Two Times	After scanning the barcode, beep twice.		
Scan Timeout	onds) from this	nning timeout duration (in sec- s pull-down list. s. Default: 5 seconds		
	None	After showing barcode, do not action.		
Termination Code	<u>CRLF</u>	After showing the barcode, jump to the next row.		
	Space	After showing the barcode, jump one unit.		
	Tab	After showing the barcode, jump a section.		
	<u>Disable</u>	Disable this functionality.		
Continuous Scan	1 ~ 5 sec	The duration of a continuous scan.		
	Select a method based upon the barcode scan- ning application you will use.			
Keybd Message	Type Writing	A unit follows a unit, quickly showing the barcode number.		
	Copy & Paste	Show the barcode number once.		
Prefix	Type the desire	ed label prefix in this text box.		
Suffix	Type the desired label suffix in this text box.			
Default	Press the "Default" button to reset all settings of the "Basic" Tab to default values.			
F/W ver.	Decoder firmware version.			
Set All To Default	Press the "Set All To Default" button to reset all settings of the "Basic" tab, "Code Configure" tab, "Code ID" tab and all barcodes of "Barcode Setup" to default values.			

3.2.1.2 "Barcode" Tab

Select the barcode symbologies you plan to scan from the list. Tap to enable/disable the desired symbologies.

BarCode Settings	ок 🗙
Basic Code Configure Code ID	
OA.Numeric-only Barcodes	
Ø UPC-E	
UPC-A	
EAN-13 / ISBN	
🗹 EAN-8 / JAN-8	
UPC-EAN Add-ON 2/5	
🛛 Industrial 2 of 5 / IATA	
☑ Interleaved 2 of 5	
🛛 🗆 Plessey / MSI	
Code 11	
🗹 Codabar / NW 7	
Matrix 2 of 5	•
Default Setup BarCo	ode
🐉 BarCode 🎐 🏌 9:55 PM	1

Figure 3.3: Code Configure Tab

Table 3.2: Code Configure Explanation					
Barco	ode Symbology	Explanation			
Туре	Type A. Numeric-only Barcodes				
$\mathbf{\Sigma}$	UPC-E	Compressed version of UPC code for use on small products.			
$\mathbf{\Sigma}$	UPC-A	Universal product code seen on almost all retail products in the USA and Can- ada.			
	EAN-13 / ISBN	EAN-13: European Article Numbering international retail product code. ISBN: Special use of the EAN-13 symbol to used internationally to mark books.			

Barcode Symbology		Explanation		
	EAN-8 / JAN-8	Compressed version of EAN code for use on small products.		
	UPC-EAN Add-ON 2/5	UPC-A, UPC-E, EAN-13, and EAN-8 may all include an additional barcode to the right of the main barcode. This sec- ond barcode, which is usually not as tall as the primary barcode, is used to encode additional information for news- papers, books, and other periodicals.		
	Industrial 2 of 5 / IATA	Older code not in common use.		
	Interleaved 2 of 5	Compact numeric code, widely used in industry, air cargo and other applications.		
	Plessey / MSI	Plessey: Older code commonly used for retail shelf marking. MSI: Variation of the Plessey code commonly used in the USA.		
	Code 11	Used primarily for labeling telecommuni- cations equipment.		
	Codabar / NW 7	Older code often used in library systems, sometimes in blood banks.		
	Matrix 2 of 5	Used in miscellaneous industrial applica- tions, and mechanical numbering sys- tems.		
Туре	B. Alphanumeric Barco	des		
$\mathbf{\Sigma}$	Code 39 / Code32	General purpose code in very wide use worldwide.		
	Code 93	Compact code similar to Code 39.		
V	Code128 / UCC EAN128	Very capable code, excellent density, high reliability; in very wide use world- wide. Widely used data formatting model for Code 128		
Type C. Others Barcodes				
	China Post	Used by China Postal Service for auto- mated mail sorting.		
	Code 4			

Barcode Symbology		Explanation		
	GTIN	Global Trade Identification Number		
	Korea Code 3 of 5			
	RSS	Reduced Space Symbology		

3.2.1.3 "Code ID" Tab

BarCode Settings	ok ×
Basic Code Configure	Iode ID
Enable Code ID:	~
Barcode UPC-E UPC-A EAN-13 / ISBN EAN-8 / JAN-8 Industrial 2 of 5 / IATA Interleaved 2 of 5 Plessey / MSI Code 11 Codabar / NW 7 Matrix 2 of 5	Code ID
Default	
🐉 BarCod 🎐 🏌 12	2:11 AM 🖌 🗟

Figure 3.4: Code ID Tab

Table 3.3: Code ID Ex The code ID is added to which kind of barcode is	o the prefix of th	e barcode to let users identify d.		
Enable Code ID Enable this functionality.				
	Set 1 ~ Set 5	Select one default value: Set 1 ~ Set 5. (See the table: "Code ID Set1 ~ Set5 Table" on page 62)		
	User Define	User defined value.		
	Barcode List	Set 1 ~ Set 5: default settings. User Define: select barcode to define.		
Default		Press the "Default" button to reset all settings of the "Code ID tab to default values.		

Table 3.4: Code ID Set1 ~ Set5 Table					
	Set 1	Set 2	Set 3	Set 4	Set 5
UPC-E	S	E	С	E	E
UPC-A	М	A	А	А	E
EAN-13 / ISBN	М	A	А	F	E
EAN-8 / JAN-8	Р	В	В	F	E
Industrial 2 of 5 / IATA	С	Н	Н	Н	S
Interleaved 2 of 5	D	I	Z	I	S
Plessey / MSI	V	V	D	Р	М
Code 11	J	J	J	J	J
Codabar / NW 7	F	Ν	Х	Ν	F
Matrix 2 of 5	E	G	G	G	S
Code 39 / Code 32	А	С	Y	М	А
Code 93	I	L	L	L	G
Code 128	Н	К	К	К	С
Code 4	U	U	U	U	U
Korea Code 3 of 5	R	R	R	R	R
RSS	R	R	R	R	R
UCC128 / EAN128	W	W	W	W	W

3.2.1.4 Barcode Setup

- A. First select the barcode type then select a barcode setting.
- B. Press the "**Default**" button to reset all settings of this barcode to default values.
- C. Press the "**Apply**" button to apply these changes.

Please see "Symbologies List" on page 64 for more detailed information on each barcode.

BarCode Setup 🛛 🗙		
Type:	A.Numeric-only Barcodes 💌	
🔽 Enable	JPC-E	
Format:	Transmit 1st digit 📃 💌	
🔽 Send Check Digit		
🔲 Start / Stop Digit		
Length O Min-Max O Fixed Min/1 O Max/2 O 3 O		
Default Apply		
🐉 BarCoo	de 🦻 🏌 9:55 PM 🧏 🖷	

Figure 3.5: Barcode Setup

3.2.2 Symbologies List

A Type -- Numeric-only Barcodes

3.2.2.1 UPC-E

BarCode Setup X		
Type:	A.Numeric-only Barcodes 💌	
🔽 Enable	UPC-E	
Format:	Transmit 1st digit 🛛 🗨	
🔽 Send Check Digit		
🔲 Start / Stop Digit		
Length Min-Max O Fixed Min/1 O Max/2 O 3 O		
Default Apply		
💦 BarCoo	de 🎐 🏌 9:55 PM 🧏 🖷	

Figure 3.6: UPC-E

Table 3.5: UPC-E Explanation				
Item		Explanation		
Format	Ignore 1st digit	Do not transmit 1st digit of the barcode.		
	Transmit 1st digit	Transmit 1st digit of the barcode.		
Send Check Digit		This controls whether or not to send the check digit of the barcode.		

3.2.2.2 UPC-A

If you set UPC-A, then those settings will be automatically applied to EAN-13 too.

BarCode Setup X		
Type:	A.Numeric-only Barcodes 🔽	
	JPC-A	
Format:	Transmit 1st & 2nd digits 💌	
🔽 Send (Iheck Digit	
🔲 Start / Stop Digit		
Length Min-Max O Fixed Min/1 Max/2 A 3 A		
	Default Apply	
🐉 🛛 BarCo	de S 🞐 🔋 8:13 AM 🧏 🔁	

Figure 3.7: UPC-A

Table 3.6: UPC-A Explanation			
Item		Explanation	
	Ignore 1st & 2nd digits	Do not transmit the 1st digit of the barcode.	
Format	Transmit 1st digit	Transmit the 1st digit of the barcode.	
	Transmit 2nd digit	Transmit the 2nd digit of the bar- code.	
	Transmit 1st & 2nd digits	Transmit the 1st and 2nd digits of the barcode.	
Send Check Digit		This controls whether or not to send the check digit of the barcode.	

3.2.2.3 EAN-13 / ISBN

BarCode Setup 🛛 🗙		
Type:	A.Numeric-only Barcodes 💌	
🔽 Enable	EAN-13 / ISBN	
Format:	Transmit 1st & 2nd digits 💌	
🔽 Send Check Digit		
Enable ISBN Code		
Length Min-Max O Fixed Min/1 Max/2 3 0		
	Default Apply	
🐉 BarCoo	de S 🥩 🔋 8:13 AM 🧏 🖶	

Figure 3.8: EAN-13/ISBN

Table 3.7: EAN-13 / ISBN Explanation		
Item		Explanation
Format	Ignore 1st & 2nd digits	Do not transmit the 1st digit of the barcode.
	Transmit 1st digit	Transmit the 1st digit of the bar- code.
	Transmit 2nd digit	Transmit the 2nd digit of the bar- code.
	Transmit 1st & 2nd digits	Transmit the 1st and 2nd digits of the barcode.
Send Check Digit		This controls whether or not to send the check digit of the barcode.
Enable ISBN Code		This controls whether or not to use the ISBN Code.

MARS-1030 User Manual

3.2.2.4 EAN-8/JAN-8

BarCode Setup 🛛 🗙				
Type: A.Numeric-only Barcodes 💌				
Enable EAN-8 / JAN-8				
Format: Transmit 1st digit				
🔽 Send Check Digit				
Convert to EAN-13				
Add Five 0 🛛 After 3 digits 🚽				
Length O Min-Max O Fixed Min/1 O Max/2 O 3 O				
Default Apply				
🐉 BarCod 🦻 🏌 12:02 AM 🌿 🖷				

Figure 3.9: EAN-8/JAN-8

Table 3.8: EAN-8/JAN-8 Explanation			
Item	Item		Explanation
Format Ignore 1st digit		1st digit	Do not transmit 1st digit by barcode.
Transm		it 1st digit	Transmit 1st digit by barcode.
Send Check Digit		c Digit	Whether send check digit by barcode.
Convert to EAN-13		13 🔲	When this option is selected the scanner will convert UPC-E to UPC-A by transmitting five zeroes
Add five 0	d five 0	Ahead of code	Add five zeroes at prefix of the barcode.
		After 3 digits	Add five zeroes from 4th digits.

3.2.2.5 UPC-EAN Add on 2/5

- UPC-E, UPC-A, EAN-13/ISBN and EAN-8/JAN-8 may all include an additional barcode to the right of the main barcode.
- This barcode will show primary and additional codes together.
- The UPC-EAN Add-ON 2/5 code cannot be used alone. It must operate with UPC-E, UPC-A, EAN-13/ISBN or EAN-8/JAN-8.

BarCode Setup X
Type: A.Numeric-only Barcodes 💌
Enable UPC-EAN Add-ON 2/5
Format:
🔲 Send Check Digit
Only read the code with Addon 2/5
Default Apply
教 BarCode S 🎐 🔋 8:15 AM 🧏 🦉

Figure 3.10: UPC-EAN Add on 2/5

UPC-EAN Add-On 2/5 Explanation

Item	Explanation
Only read the code with Addon 2/5	Only reads the codes that have addenda.

3.2.2.6 Industrial 2 of 5 / IATA

BarCode 9	Getup 🗙				
Type:	A.Numeric-only Barcodes 💌				
🔽 Enable	(ndustrial 2 of 5 / IATA 🛛 🔽				
Format:	V				
🔽 Send Check Digit					
🗌 Enable	Enable IATA Code				
Checksum: 🗌 Verify					
_	ax O Fixed				
Default Apply					
🐉 BarCoo	le 🦻 🏌 9:57 PM 🧏 🖷				

Figure 3.11: Industrial 2 of 5 / IATA

Table 3.9: Industrial 2 of 5 / IATA Explanation			
ltem			Explanation
Send Check Digit			This controls whether or not to send the check digits of the bar-code.
Enable IATA Code			This controls whether or not to use this IATA Code.
Checksum	Verify		This controls whether to verify the checksum of the barcode.
		Min-Max	Min Length can be from 2 to 48
		(Default: <u>2 / 48</u>)	Max Length can be from 2 to 48
Length		O Fixed	Length 1 can be from 2 to 48
			Length 2 can be from 2 to 48
			Length 3 can be from 2 to 48

3.2.2.7 Interleaved 2 of 5

BarCode S	etup 🗙			
Type:	A.Numeric-only Barcodes 🔽			
🔽 Enable	Interleaved 2 of 5			
Format:	v			
🔽 Send C	heck Digit			
🔲 Start /	Stop Digit			
Checksum: 🔲 Verify				
-	x O Fixed			
Default Apply				
🐉 BarCod	e 🎐 🏌 9:58 PM 🧏 🖶			

Figure 3.12: Interleaved 2 of 5

Table 3.10: Interleaved 2 of 5 Explanation			
Item			Explanation
Send Check Digit			This controls whether or not to send the check digit of the bar- code.
Checksum	Verify		This controls whether or not to verify the checksum of the bar- code.
		Min / Max (Default: <u>4 / 48</u>)	Min Length can be from 4 to 48
			Max Length can be from 4 to 48
Length			Length 1 can be from 4 to 48
	O Fix	O Fixed	Length 2 can be from 4 to 48
		_	Length 3 can be from 4 to 48

3.2.2.8 Plessey / MSI

BarCode 9	Getup X			
Type:	A.Numeric-only Barcodes 💌			
🔽 Enable	Plessey / MSI			
Format:	Mode 10 🔹			
🔽 Send C	iheck Digit 🛛 📘 🔽			
Start / Stop Digit				
	ax O Fixed			
Default Apply				
🐉 BarCoo	le 🞐 🏌 9:58 PM 🧏 🖷			

Figure 3.13: Plessey / MSI

Table 3.11: Plessey / MSI Explanation			
Item		Explanation	
	Mode 10		
Format	Mode 10-10	Checksum mode for this barcode.	
	Mode 11-10		
Send Check Digit		This controls whether or not to send the check digit of the barcode.	
	1 Digit	1 digit checksum.	
	2 Digits	2 digit checksum.	

3.2.2.9 Code 11

BarCode 9	Getup X			
Type:	A.Numeric-only Barcodes 💌			
🔽 Enable	Code 11			
Format:	V			
Send C	heck Digit 🛛 2 Digits 🛛 💌			
🔲 Start / Stop Digit				
Length Min-Max O Fixed Min/1 0 + Max/2 0 + 3 0				
Default Apply				
🐉 BarCoo	le 🞐 🏌 9:59 PM 🧏 🖷			

Figure 3.14: Code 11

Table 3.12: Code 11 Explanation		
Item		Explanation
Send Check Digit		This controls whether or not to send the check digit of the barcode.
	1 Digit	1 digit checksum.
	2 Digits	2 digits checksum.

3.2.2.10 Codabar / NW7

BarCode Setup 🛛 🗙
Type: A.Numeric-only Barcodes 💌
🔽 Enable Codabar / NW 7
Format:
🔲 Send Check Digit
Start / Stop Digit abcd
Checksum: 🔲 Verify
Length Min-Max O Fixed Min/1 Max/2 A 3 A 4
Default Apply

Figure 3.15: Codabar / NW7

Table 3.13: Codabar / NW7 Explanation			
ltem		Explanation	
Start / Stop Digit		This controls whether or not to send start and stop digits.	
	ABCD		
	abcd	Start / Stop transmit type	
	TN*E		
	tn*e	1	
Checksum	Verify	This controls whether or not to verify the checksum of the barcode.	

3.2.2.11 Matrix 2 of 5

BarCode Setup	×
Type: A.Numeric-only Barcodes	•
Enable Matrix 2 of 5	•
Format:	~
🔽 Send Check Digit	
🔲 Start / Stop Digit	
Checksum: 🔲 Verify	
Length Min-Max O Fixed Min/1 4 Hax/2 48 3 0	_
Default Apply	,
🐉 BarCode 🎐 🏌 9:59 PM 🖌	٩.

Figure 3.16: Matrix 2 of 5

Table 3.14: Matrix 2 of 5 Explanation			
Item			Explanation
Send Check Digit		This controls whether or not to send the check digits of the barcode.	
Checksum	Verify		This controls whether or not to verify the checksum of the bar- code.
Length		Min-Max (Default: <u>4 / 48</u>)	Min Length can be from 4 to 48 Max Length can be from 4 to 48
		O Fixed	Length 1 can be from 4 to 48 Length 2 can be from 4 to 48 Length 3 can be from 4 to 48

3.2.2.12 Code39 / Code32

BarCode Setup	×	
Type: B.Alphanumeric Barcodes	•	
Enable Code 39 / Code 32	•	
Format: Code39 Standard	•	
🔲 Send Check Digit		
🗌 Start / Stop Digit		
Checksum: 🔲 Verify 🔽 Transmit		
Length O Min-Max O Fixed Min/1 O Max/2 O 3 O	_	
Default Apply		
🐉 BarCode 🎐 🏌 9:59 PM 🖌	٩.	

Figure 3.17: Code39 / Code32

Table 3.15: Code39 / Code32 Explanation		
Item		Explanation
	Code39 Standard	Enable Code 39 Standard characters
Format	Code39 Full ASCII	Enable Code 39 Full ASCII character
	Code32	Enable Code 32
Start / Stop Digit		This controls whether or not to transmit start and stop digits.
Checksum	Verify	This controls whether to verify the checksum of the barcode.
	Transmit	This controls whether or not to transmit the checksum of the barcode.

3.2.2.13 Code93

Code93 has no configuration.

BarCode 9	Setup 🗙
Type:	B.Alphanumeric Barcodes 💌
🔽 Enable	Code 93 🔽
Format:	v
🔲 Send C	heck Digit
🔲 Start /	Stop Digit
_	X O Fixed
	Default Apply
🐉 BarCod	I 🞐 🏌 10:00 PM 🖌 🖶

Figure 3.18: Code93

3.2.2.14 Code128 / UCC EAN128

BarCode 9	Getup X
Type:	B.Alphanumeric Barcodes 💌
🔽 Enable	Code128 / UCC EAN128 🔽
Format:	V
🔲 Send C	heck Digit
🗌 Enable	UCC128/EAN128
	Min-Max O Fixed
	Default Apply
🐉 BarCoo	le S 🎐 🔋 8:28 AM 💹 🖶

Figure 3.19: Code 128 / UCC EAN128

Code128 / UCC EAN128 Explanation

Item	Explanation
Enable UCC128/EAN128	Enable UCC128/EAN128.

C Type -- Other Barcodes

3.2.2.15 China Post

BarCode Setup X		
Type: C.Other Barcodes		
🔽 Enable <mark>China Post</mark>		
Format:		
🔽 Send Check Digit		
🔲 Start / Stop Digit		
Checksum: 🔲 Verify		
Length Min-Max O Fixed Min/1 4 Max/2 48 3 0		
Default Apply		
鸄 BarCod 🎐 🏌 10:00 PM 🚂 🖷		

Figure 3.20: China Post

Table 3.16: China Post Explanation		
Item		Explanation
Checksum	Verify	This controls whether or not to verify the checksum of the barcode.
Send Check Digit		This controls whether or not to send the check digit of the barcode.
	Min-Max	Min Length can be from 4 to 48
	(Default: <u>4 / 48</u>)	Max Length can be from 4 to 48
Length		Length 1 can be from 4 to 48
	O Fixed	Length 2 can be from 4 to 48
		Length 3 can be from 4 to 48

MARS-1030 User Manual

3.2.2.16 Code4

Code4 has no configuration.

BarCode 9	Getup 🗙
Type:	C.Other Barcodes 🛛 💌
🔽 Enable	Code 4
Format:	
🔲 Send C	heck Digit
🔲 Start /	Stop Digit
	ax O Fixed
	Default Apply
🐉 BarCoo	I 🎐 🏌 10:00 PM 🧏 🖶

Figure 3.21: Code4

3.2.2.17 GTIN

GTIN has no configuration.

BarCode Setup	<
Type: C.Other Barcodes 🖉]
🔽 Enable 🛐 🛛]
Format:	
🔲 Send Check Digit	
🔲 Start / Stop Digit	
Length ● Min-Max ● Fixed Min/1 □ ➡ Max/2 □ ➡ 3 □	1
Default Apply	
🐉 BarCod 🦻 🏌 10:00 PM ½	2

Figure 3.22: GTIN

3.2.2.18 Korea Code 3 of 5

Korea Code 3 of 5 has no configuration.

BarCode Setup	×
Type: C.Other Barcodes	•
Enable Korea Code 3 of 5	-
Format:	-
🔲 Send Check Digit	
🔲 Start / Stop Digit	
Length Min-Max O Fixed Min/1 D Max/2 D 3 0)
Default App	ly
🐉 BarCod 😏 🏌 10:01 PM 🧏	1 🖬

Figure 3.23: Korea Code 3 of 5

BarCode Setup 🛛 🗙
Type: C.Other Barcodes 💌
✓ Enable RSS
Format:
🔲 Send Check Digit
Convert to UCC128
Checksum: 🔲 Verify
Length Min-Max O Fixed Min/1 Max/2 A 3 A 4
Default Apply
教 BarCode S 🎐 🔋 8:30 AM 🧏 🚍

Figure 3.24: RSS

RSS Explanation

Item		Explanation
Convert to U	JCC128	The scanner will convert RSS to UCC128.
Checksum	Verify	This controls whether or not to verify the checksum of the barcode.

3.2.3 Bluetooth Device Properties

Table 3.	17: Bluetooth Device Properties		
lcon	Item and function		
	 "Scan Device" Tab (See "Bluetooth Manager Windows" on page 84 		
	 * Tap the Scan Device button to initiate a scan for Bluetooth hardware. The Bluetooth manager lists the Bluetooth devices that it finds, see "Bluetooth Manager Windows" on page 84. If Bluetooth hardware is not found, the <i>Bluetooth Hardware Error</i> window appears. See "Bluetooth Error Windows" on page 84. See "Bluetooth Icon" on page 86 for a description of Bluetooth icons. * Double tap the device add it to the device list. The Bluetooth Manager Authentication window appears. Tap No to connect to the device before connecting. ("Bluetooth Manager Windows" on page 84) * If the Yes was selected in the Bluetooth Manager Authenticate the device before connecting. ("Bluetooth Manager Authentication window, the enter PIN windows appears. Enter a PIN between 1 and 16 characters in the <i>Enter PIN:</i> text box, and tap OK. The mobile computer sends the PIN request to the device for bonding. See "Bluetooth Enter PIN Windows" on page 85. * When prompted, the same PIN must be entered on the other device, the bonded icon, appears in the device list. See "Bluetooth Enter PIN: See "Bluetooth PIN windows" on page 85. 		

Bluetooth Manager ? OK ×	Bluetooth Manager 🛛 ? OK 🗙
Scan Device	Scan Device
Enable Bluetooth Device	Enable Bluetooth Device
	(₩ 🔂 Unnamed (000272b02aa3) 🔺
	0₩m 🚴 Unnamed (000272b02aa3) ♥₩ 🕸 Unnamed (000272b02aa3)
	0₩ 🚽 Unnamed (000272b02aa3)
	🕅 🎒 Unnamed (000272b02aa3) —
	🕅 📓 Unnamed (000272b02aa3)
	O¥n? MH01690 (0080371a38a4)
	🗰 🔁 THAU123 (UUBU3/1a2513) 🕌
Scan Device	<u>S</u> can Device

Figure 3.25: Bluetooth Manager Figure 3.26: Bluetooth Manager Windows

Windows



Figure 3.27: Bluetooth Error Windows



Figure 3.28: Bluetooth Manager Windows

Bluetooth ×	Bluetooth Manager 🛛 ? OK 🗙
Enter PIN:	Scan Device ✓ Enable Bluetooth Device ✓ Enable Bluetooth Device ✓ CTV9U (00027201645a) ↔ TRILLION (000272b02aa3) ↔ TRILLION (000272b02aa3)

Figure 3.29: Bluetooth Enter PIN Figure 3.30: Bluetooth Manager Windows Windows

Note: If the device to which the mobile computer is bonding does not appear in the list, ensure it is turned on, in discovery mode, and within range (30 feet / 10 meters) of the mobile computer.

Table 3.	18: Bluetooth Icon	
lcon		Description
?	Unknown device icon	Device is not defined
O <mark>⊁</mark> n	Locked icon	Device is locked and cannot be bonded to.
0-1	Not locked icon	Device is not locked and can be bonded to.
•	Bluetooth device icon	Bluetooth device
6	Bonded device icon	Bonded Bluetooth device
	Mobile device icon	Device is a mobile device
0	Phone icon	Device is a phone.
4	Printer icon	Device is a printer
₽¢	Network icon	Device is a network.
_	Linked icon	Device is linked.

3.2.4 Certificates

Certificates are used by some applications for establishing trust and for secure communications.

Certificates are signed and issued by certificate authorities and are valid for a prescribed period of time. Windows CE manages multiple certificate stores.

Table 3.19: Ce	rtificates
lcon	Item and function
Certificates	 "Store" Tab (Figure 3-31) In the Stores tab, select the certificate store you wish to view or modify from the drop-down list (Figure 3-32). The "Trusted Authorities "store lists the top-level certificates for authorities you trust. (Figure 3-33, Figure 3-34) The "My Certificates "store contains your personal certificates, which you use to identify yourself. Intermediate certificate authorities that help establish a chain of trust are stored in the "Other Authorities" store.
	"Store" Tab
	 * To add a certificate or associated private key to the selected store, select "Import" (Figure 3-35). * To view more details of the selected certificate, such as the expanded name or expiration date, choose "View". * To delate the selected certificate from the store change.
	* To delete the selected certificate from the store, choose "Remove".



Figure 3.31: Certificates

Certificates	? OK ×
Stores	
Trusted Authorities	
Trusted Addrionties	
Lists the certificates trusted by you	
trusteu by you	
GlobalSign Root C	Import
GTE CyberTrust G	View
Secure Server Cer	Tionu
Thawte Server CA 🔻	<u>R</u> emove
🐉 🙆 Certi 🕹 🎐	42.00.011

Figure 3.33: Certificates

Certificates		? 0K ×
Certificate Det	tails	ок 🗙
Friendly <u>N</u> ame		
Field	Subject	-
OU=Class 2 Pu		Certil 🔺
O="VeriSign, I C=US	nc.	
1		
🌮 😳 Certi 🖃	⊾ 🥪 ।2:0	9 PM 😡 🔁

Figure 3.35: Certificates



Figure 3.32: Certificates



Figure 3.34: Certificates

3.2.5 Control Center

The Control Center includes four applications, described below.



Figure 3.36: Control Center

3.2.5.1 Information

Table 3.20: In	formation
lcon	Item and function
1	"Information" Tab: Provide Software version, MAC address, Bluetooth ID, Serial No. and Configuration No.

3.2.5.2 Brightness

Table 3.21: B	rightness		
lcon	Item and function		
Ö.	LCD Brightness Change the LCD brightness by tapping right-arrow or left- arrow. You can also change the LCD brightness by pressing the right-direction key or left-direction key on the keypad.		
	The brightness settir responding icon.	ig has seven s	n steps: Every step has a cor-
	1. 💡 2. 🤤	⟩ ₃ 🎖	4. 0 5. 0
6. Ç 7. Ç			
	Enable Keypad Brightness Open keypad brightness not.		
	Backlight Timeout Save battery life by a when not used.	automatically t	turning off the backlight
	Battery	The table mu item is not m	ist be disabled when its arked.
	Power, turn off backlight after		s 15 seconds, 30 seconds, <u>ninutes</u> and 5 minutes.
	backlight after item i item i The ta	The table mu item is not m	ist be disabled when its arked.
			s 15 seconds, 30 seconds, <u>ninutes</u> and 5 minutes.
	Dim backlight	Save battery	life functionally of idleness.
	after 20 seconds of idleness.		



Figure 3.37: Brightness

3.2.5.3 Backup Restore

Table 3.22: Backup Restore		
lcon	Item and function	
	 You can backup/restore the system to/from a flash disk or inserted memory card. (A. Disk on Chip, B. CF Card, C. SD Card) (Figure 3-38) This application must check the backup file on the DOC first. If you select other storage, this item will be checked again. If the file exists, the date appears next to "Last backup date:". If the file doesn't exist, the "Restore Now" but- ton is disabled. When you press the Backup/Restore button, a warning dialog box will appear. (Figure 3-39) When the system backup/restore is finished, a mes- sage dialog will appear. (A. Backup: Figure 3-40, B. Restore: Figure 3-41) 	

Backup / Restore 🛛 🗙	Warning 🛛 🗙
You can backup/restore the system data to/from flash disk or inserted memory card. Storage by: Disk on Chip 🗨	Close other applications before starting this action. This will take a while,do you want to proceed?
Last backup date: No file Disk available space: 20041 KB	Yes No
Need backup space: 642 KB	Warning X
Backup Now Restore Now	Close all applications before restoring files, this will take a while,do you want to proceed?
教 Backup / 🏋 🎴 12:06 AM ½ 🖶	Yes No

Figure 3.38: Backup Restore

Figure 3.39: Backup & Restore Start

Message OK ×	Message	ОК
Backup system OK!	Restoring syst please press t reset button effect!	he software

Figure 3.40: Backup OK

Figure 3.41: Restore OK

3.2.5.4 Fn-key Settings

Table 3.23: 1	Fn-Key	
lcon	Item and	d function
	Fn-Key Setting (Figure 3-42)	
	Fn Key	The application program default settings
	F1	Internet Explorer
	F2	Microsoft WordPad
	F3	Inbox
	F4	My Computer
	 To assign your favorite application program to F1, F2, F3 and F4 hot keys: * Choose F1, F2, F3 or F4 from the pull-down list. (Figure 3-43) * Tap "Browse" inside the "Assign program" applet. * Select one application program you want from the program list, then choose "OK". (Figure 3-43) * Tap "Default" to return to the default settings. (Figure 3-42) 	

Fn-Key Settings X
F1: \windows\iesample.exe F2: \windows\pword.exe F3: \windows\pmail.exe F4: \windows\explorer.exe
Enable Function Key Assign program
Default Browse Apply
Explanation
🐉 Fn-Key S ⊁ 🔋 12:01 AM 😾 🗮

Open 🕋 💣 🔛	? 0K ×
۹ ۱	
Application Data Application Data DiskOnChip My Documents Network 	C profiles Program File: Temp Windows
Name:	
Input Panel	
Esc 1 2 3 4 5 6 7 Tab q w e r t y CAP a s d f g h Shift z x c v b r Ctláů ` \	890-= u i o p [] j k l ; ' m , . / ←→
🐉 Fn-Key S 🤸 🔋	12:16 PM 🚔 🔁

Figure 3.42: Fn-Key Settings Figure 3.43: Fn-Key Settings

3.2.6 Date/Time

Table 3.24: Date/Time		
lcon	Item and function	
	 "Date/Time" Tab: (Figure 2-14) 	
1	* See "Setting Time and Date" on page 42	
Date/Time		

3.2.7 Dialing Properties

Table 3.25: Die	aling properties
lcon	Icon and function
*	"Dialing Properties" Tab (Figure 3-44)
	* In the When dialing from list, select the " Location " for which you want to change settings. (Figure 3-45)
Dialing	* To create a new location, select " New ". Enter the name of the location, and then select " OK ". (Figure 3-46)
	* Enter or edit the area code and local country code as needed.
	* In Dial using , select " Tone dialing " or " Pulse dialing ". Most phones use tone dialing.
	* To automatically disable call waiting, select " Disable call waiting by dialing", select the appropriate number sequence in the list, or enter a new sequence.
	 Editing dialing patterns (Figure 3-47)
	 Using the codes listed, edit the dialing patterns as needed.
	Notes:
	 If you need to use characters other than the ones listed here, use manual dialing.
	- Hyphens and spaces in dialing strings are ignored.
	 Some modems may not respond to the following characters, even though your device lets you add them to the dial string.

Dialing Properties ? OK ×	Dialing Properties ? OK ×
Location: Home	Location: Home
Home Work	New Remove
Local settings are:	Local settings are:
Area code: 425 🔘 Tone dialing	Area code: 425 💿 Tone dialing
Country/Region: 1 OPulse dialing	Country/Region: 1 O Pulse dialing
🗌 Disable call waiting; dial: 📃 🚽	Disable call waiting; dial:
Dialing patterns are: Local / Long Distance / International: G 1FG 011,EFG	Dialing patterns are: Local / Long Distance / International: G 1FG 011,EFG
Edit	Edit
🐉 🧶 Dialin 🕹 🌫 5:14 PM 💯 🖷	🐉 🎯 Dialin 🕹 🎐 5:13 PM 😺 🖷

C

c

Figure 3.44: Dialing Properties Figure 3.45: Dialing Properties

ialing Properties ? OK ×	Dialing Properties ? OK ×
Location: Home	Location: Home
New Remove	Edit Dialing Patterns 🛛 ? OK 🗙
Local settings are:	For Local calls, dial:
reate New Location OK 🗙	For Long Distance calls, dial:
ocation name:	1FG
	For International calls, dial:
cocar) congiostance y incomational	011,EFG
G 1FG 011,EFG	(E,e = country/region code; F,f = area code; G,g = number)
Edit	Edit
🎽 🏈 Dialin 🕹 🅪 5:14 PM 😼 🖶	🦹 🎯 Dialin 🕹 🅪 5:15 PM 🕼 🖷

Figure 3.46: Dialing Properties Figure 3.47: Dialing Properties

3.2.8 Display Properties

Table 3.26: Di	splay properties	
lcon	Icon and function	
	"Background" Tab: (Figure 3-48)	
<u>*</u>	* From the "Image" list, select an image you want as the background of the desktop. (Figure 3-49)	
Display	 * To locate an image in another folder, select "Browse". (Figure 3-50) 	
	* To have the image cover the entire background, select "Tile image on background"	
	"Appearance" Tab (Figure 3-51)	
	* Change the color scheme: (Figure 3-52)	
	 From the" Scheme" list, select a scheme. 	
	 View your choice in the preview box. If you like the scheme, select "Apply". 	
	* Create a custom color scheme:	
	- From the "Item" list, select a display item.	
	 From the "Basic colors" list, select a color, and select "OK". 	
	- View your color selection(s) in the Preview box.	
	- To save the scheme, select "Save".	
	 In the "Save this color scheme as" box, enter a name for the scheme, and select "OK". 	
	- Select "Apply".	



Figure 3.48: Display properties

Display Prop	erties	? 0K ×
Background	Appearance	
Image: Win	dowsce 💌	Browse
(Not Win	ne) dowsce	ackground
	∰Windows CE ле	
🛃 🂽 Displa	🕹 🅪 5:1	16 PM 💯 🔁

Figure 3.49: Display properties

Browse 🗈 💣 🔡	🧰 ? ОК ×	
🔍 \Windows\		
🚞 Desktop	C Programs	
Favorites	Recent	
C Fonts	🗁 StartUp	
🔁 Help	i www	
	•	
Name:		
Input Panel		
Esc 1 2 3 4 5 6	7 8 9 0 - = 🗲	
Tab[q]w]e[r[t]y	/[u[i]o[p[[]]	
<u>CAP[a]s[d]f[g]</u>	h <u>j k i ;</u>	
Shift] z [x] c] v] b]	<u>n[m],[,[/[</u> ←]	
Ctl[áü] ` [\]	↓ ↑[←]→]	
🐉 🌭 Displa 🕹 🧐	⊳ 5:16 PM 🛗 🔁	



Figure 3.50: Display properties

Figure 3.51: Display properties

Display Properties ? OK ×		
Background Appearance		
Scheme: Windows Standard 🗨		
SayeBrick Desert Eggplant		
High Contrast Black		
Inactive Wind ? OK ×		
Window Text		
Active Win ? VOK ×		
Dialog Box Text		
Button		
Item: Desktop		
🀉 🚱 Displa 🕹 🅪 5:17 PM 💯 🖷		

Figure 3.52: Display properties

3.2.9 Input Panel

Table 3.27: Di	splay properties
lcon	Icon and function
	 "Input panel" Tab: (Figure 3-53)
Input Panel	* Select the input method you want to change.
	 * To change the Soft Keyboard Options, tap "Option" (Figure 3-54).
	"Options" Tab:
	 Change the soft keyboard options as desired, selecting from:
	- Large or small keys
	 Using gestures for space, black-space shift, and enter.
	* To exit the soft keyboard Options , press " OK " on the control bar, or press the <enter></enter> key on the keypad.
	* To exit the Input Panel , press "OK" on the control bar, or press the <enter></enter> key on the keypad.

Input Panel Properties 🛛 ? OK 🗙		
Input Panel		
Current input <u>m</u> ethod:		
Keyboard		
Options		
Allow applications to change the input panel state		
To quickly switch input methods, tap the Input Panel arrow and then tap the desired method from the menu that appears.		
🐉 🖃 Input 🦹 🏷 3:15 AM 😼 🖷		

Figure 3.53: Input Panel Properties

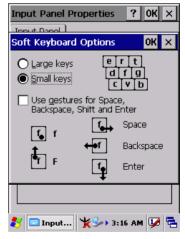


Figure 3.54: Input Panel Properties

3.2.10 Internet Options

Table 3.28: 1	nternet Options
lcon	Icon and function
	 "General" Tab: (Figure 3-55)
	* Type in the URL of desired start page and the desired
	search engine. You can also change the Cache Size,
Internet Options	clear the Cache and clear the History.
Options	"Connection" Tab: (Figure 3-56)
	* Modify the network access settings as desired.
	 "Security" Tab (Figure 3-57)
	* Modify the security settings as desired. You can enable
	any of the following by tapping the checkbox:
	- Allow cookies
	- Allow TLS 1.0 security
	- Allow SSL 2.0 security
	- Allow SSL 3.0 security
	- Warm when switching between secure and insecure
	"Advanced" Tab (Figure 3-58)
	* Modify the security settings as desired. You can enable
	any of the following by tapping the checkbox:
	- Display Image in pages
	- Play sounds in pages
	- Enable scripting
	 Display a notification about every script error Underline links-
	> Never
	> Always
	> Hover

Internet Settings	ок 🗙
General Connection Sec	curity Ac 🔹 🕨
Start Page: http://wap.oa.yahoo.co	m/l
Search Page: http://www.google.cor	n/palm
⊆ache Size (in KB):	512
Clear C <u>a</u> che Cle	ear His <u>t</u> ory
💱 🎯 Inter 🧏 🕪 3:	:16 AM 💯 🔁

Figure 3.55: Internet Settings

Internet Settings OI	< ×
General Connection Security Ac	•
Allow cookies	
Allow <u>T</u> LS 1.0 security	
Allow SSL 2.0 security	
Allow SSL <u>3</u> .0 security	
☑ <u>W</u> arn when switching across secure and insecure areas	
N Dister Y Set 3:17 AM 1	4

Figure 3.57: Internet Settings

Internet Settings OK ×
General Connection Security Ad
Us <u>e</u> LAN (no autodial)
Autodial name: ŠUSB
Network Access the Internet using a proxy server
Address:
Port: 80
Bypass proxy server for local addresses
🐉 🎯 Inter 🦞 🎭 3:17 AM 💯 🖷

Figure 3.56: Internet Settings

Internet Settings	OK ×
Connection Security Advance	d) 💶 🕨
Display images in pages	
Play sounds in pages	
Enable scripting	
Display a notification about every script error	
_[Underline links————	
Never	
🔿 Always	
O Hover	
🐉 🎯 Inter 🦞 🅪 3:17 AM	i 😡 🗟

Figure 3.58: Internet Settings

3.2.11 Keyboard

lcon	Icon and function
_	• "Repeat" Tab: (Figure 3-59)
÷	* To change the amount of time between depressions before repetition starts, adjust the Repeat delay slider
Keyboard	* To change the repeat rate, adjust the Repeat rate slider.
	 * Test your new setting. * Tap "OK" to exit the "Keyboard" tab.

Keyboard Properties ? OK	×
Repeat	
Enable character repeat	
Repeat delay: Long Si	h <u>o</u> rt
Repeat rate:	ast
<u>T</u> ap here and hold down a key to te	est:
🌮 🍉Keyb 🎽 🏷 3:18 AM 📮	8 🔁

Figure 3.59: Keyboard Properties

3.2.12 Network and Dial-up Connections

Table 3.30: Network and Dial-up Connections	
lcon	Icon and function
	"Connection" Tab:
	* To create a "Dial-up Connection":
Network and	 Double-tap "Make New connection".
Dial-up Co	- In the "Make New Connection" dialog box, enter a
	name for the connection.
	- Select "Dial-Up Connection".
	- Select the " Next " button.
	- Select the modem you want use.
	- Select "Configure"
	- Under "Connection Reference", use the default set-
	tings provided. If you can't connect using these set- tings, see your ISP or network administrator for
	specific information. If you want to always enter a
	phone number before connecting, select " Manual
	Dial". Select "OK".
	- Select "TCP/IP Settings". In the "General" tab,
	ensure "Use Server-assigned IP address" is
	selected. In the "Name Servers" tab, ensure "Use
	Server-assigned addresses" is selected, and select
	" OK ". If you are unable to connect with these default settings, see your ISP or network administrator for
	specific TCP/IP information.
	- Select the "Next" button and type the telephone num-
	ber.
	- Select the "Finish" button.
	The connection you just created appears as an icon in the
	"Network and Dial-up Connections" folder.
	- Set up a Point-to-Point Protocol (PPP) account
	with an ISP and obtain the following information:
	> Access telephone number
	> User name
	> Password

lcon	Icon and function
Network and Dial-up Co	Once you have established an account, create a new connection on your device. When creating this connection, you should be able to use all of the default TCP/IP settings provided in the Make New Connection Wizard. If you can't connect using the default settings, contact your ISP or access your ISP's Web site for specific TCP/IP information such as primary and secondary DNS addresses.
	* To modify connection settings:
	 Select Start > Settings > Network and Dialup Connections
	 Select the icon for connection settings you want to modify.
	 Select File > Properties, or double- tap the appropri- ate icon.
	 Select desired options. There may be additional set- tings that depend on the connection. To modify, select the icon and then select Advanced Set- tings from the menu.

Connection	? ×	
Make New LANNDS1		Make New Connection × Type a name for the connection:
Connection		Select the connection type:
		Dial-Up Connection Direct Connection
		Virtual Private Network (PPTP) Virtual Private Network (L2TP)
		O PPP over Ethernet [PPPoE]
🐉 🗞 Conn 🏌 🅪 3:19 AM	🗭 🗟	鸄 🗞Conn 🌟 🅪 3:19 AM 😺 🖷

Figure 3.60: Network and Dial-up Figure 3.61: Network and Dial-up Connections Connections

Connection B X R ? X	Connection Connection X 2 2 X
My Connection	My Connection
Select a device:	Select a device:
Security Settings < Back	Serial Cable on COM2: Bluetooth on COM1: Infrared Port Serial Cable on COM2: USB Cable on COM5: USB Cable on COM6: Security Settings
💱 🗞 Conn 🏌 🍌 3:19 AM 💯 😤	👔 🗞 Conn 👷 🖘 3:20 AM 💯 🖷

Figure 3.62: Network and Dial-upFigure 3.63: Network and Dial-upConnectionsConnections

Device Properties ? OK ×	Device Properties ? OK ×
Port Settings Call Options Connection Preferences	Port Settings Call Options Call Setup
Baud Rate: 19200	Cancel the call if not connected within
Barity: None Stop Bits: 1 Elow Control: Hardware	✓ Wait for dial tone before dialing Wait for credit card 0 sec.
Terminal	Extra Settings ————————————————————————————————————
Manual Dial	
🐉 Device P 🧏 🥪 3:20 AM 💯 🖶	🐉 Device P 🧏 🗫 3:20 AM 💯 🖷

Figure 3.64: Network and Dial-upFigure 3.65: Network and Dial-upConnectionsConnections

Connection	
TCP/IP Settings OK ×	TCP/IP Settings OK ×
General Name Servers	General Name Servers
My Connection	My Connection
Vse server-assigned IP address	✓ Use server-assigned addresses
	Primary DNS:
🔲 Use Slip	Secondary DNS:
✓ Use software compression	Primary WINS:
✓ Use IP header compression	Secondary WINS: · · ·
< <u>B</u> ack Finish	< <u>B</u> ack Finish
🐉 🗞 Conn 🧏 🍌 3:20 AM 💯 🖷	🐉 📚 Conn 🧏 🏎 3:20 AM 🐓 🖷

Figure 3.66: Network and Dial-upFigure 3.67: Network and Dial-upConnectionsConnections

Security Settings OK ×	'USB/Ethernet Series Ada OK 🗙
Advanced Security Settings Use Data encryption Logon security: Use Extensible Auth Protocol (EAP) MD5-Challenge Unencrypted password (PAP) Challenge Handshake (CHAP) Microsoft CHAP (MS-CHAP)	USB/Ethernet Series Ada UK × IP Address Name Servers An IP address can be automatically assigned to this computer. Obtain an IP address via DHCP Specify an IP address IP Address:
✓ Microsoft CHAP v2 (MS-CHAP v2) Preview user name and password	∛ S Conn ¥≫+ 3:21 AM 🐓 🕾

Figure 3.68: Network and Dial-upFigure 3.69: Network and Dial-upConnectionsConnections

'USB/Ethernet Series Ada OK 🗙		
IP Address Name 9	Servers	
An IP address can be automatically assigned to this computer.		
Obtain an IP address via DHCP		
O Specify an IP address		
IP Address:		
Subnet Mask:		
Default Gateway:		
है। 🌒 🔊 🕹 🕹	🍌 3:21 AM 💯 🖷	

🗭 🔁	🐉 🗞 Conn 🧏 🍌 3:21 AM 💯 🖷
	Figure 3.71: Network and Dial-up
ections	Connections

Primary DNS: Secondary DNS: Primary WINS: Secondary WINS:

'USB/Ethernet Series Ada... OK 🗙

IP Address Name Servers

Figure 3.70: Network and Dial-up Connections

3.2.13 Owner

Iwner
Icon and function
"Identification" Tab: (Figure 3-74)
* Fill in or edit the data as desired.
* To have this information displayed when you start your
device, select "Display Owner Identification" at
Power On.
* To set up identification for remote networks, see Setting up identification for remote networks.
"Network ID" Tab: (Figure 3-75)
* Enter the user name, password, and domain name you use to log on to remote network.

Owner Properties ? OK ×	Owner Properties ? OK ×	
Identification Notes Network ID	Identification Notes Network ID	
Name:	Windows CE uses this information to gain access to network resources. Enter the user name, password, and domain provided by your network administrator.	
Company:		
Address:	User Name:	
	Password:	
Work phone:	Domain:	
Home phone:		
At power-on		
🛐 🔮 Owne 🎽 🍌 3:22 AM 😼 🖷	🛐 🔮 Owne 🏌 🍌 3:22 AM 💯 🖷	

-

Figure 3.72: Owner Properties Figure 3.73: Owner Properties

3.2.14 Password

Table 3.32: Password		
lcon	Icon and function	
	"Password Setting" Tab: (Figure 3-76)	
<u> P</u>	* Enter the password	
я —	* In the "Confirm password" box, enter the password	
Password	again.	
	* To require the password on startup, select "Enable	
	password protection at power-on" and/or select	
	"Enable password protection for screen saver".	
	* To exit the Password control panel, press "OK" from	
	the control bar, or press the <enter> key on the key-</enter>	
	pad.	

Password Properties	? 0K ×
Password Settings	
Password:	
Confirm password:	
Enable password prote power-on	ection at
Enable password proto screen saver	ection for
教 🔒 Passw 🧏 🗫 3:	23 AM 💯 🗟

Figure 3.74: Password Properties

3.2.15 PC Connection

Table 3.33: PC	C Connection
lcon	Icon and function
PC Connection	"PC Connection" Tab: (Figure 3-77)
	 * Select the first checkbox to enable direct connections to the desktop computer. (Figure 3-77)
	* Tap the "Change Connection" button to modify the connection method to USB or Serial. (Figure 3-78)
	* To exit the "Change Connection" dialog, press "OK" on the control bar, or press the <enter> key on the key- pad.</enter>
	* To exit the " PC Connection " properties control panel, press " OK " on the control bar, or press the <enter></enter> key on the keypad.

PC Connection Proper ? OK 🗙			
PC Connection			
 Enable direct connections to the desktop computer 			
When enabled, connect to the desktop computer using:			
"USB'			
Change Connection			
Warning: Changing the connection may disable communications with your desktop computer.			
🐉 💯 РС С 🌟 🅪 3:23 АМ 😼 🖷			

PC Connection Proper ? OK ×
PC Connection
Finable direct connections to the
Change Connection ? OK ×
Connect to desktop computer using:
`USB
` Serial
`USB
may disable communications with your desktop computer.
your desktop compater.
communications with your desktop computer.
🐉 💯 РС С 🦞 🅪 3:24 АМ 💯 🖷

Figure 3.75: PC Connection Figure 3.76: PC Connection

3.2.16 Power

Table 3.34:	Power
lcon	Icon and function
- (4)	"Battery" Tab: (Figure 3-79)
۹ 	 Provide change level indicators for the Main battery and the Backup battery.
Power	 * Show the remaining power capacity of the main battery. * If a "Main Batteries Very Low" warning message shows, the MARS-1030 will shut down in 30 minutes. (Figure 3-83) * The DDT will shutdown when the main betten is capacity.
	* The PDT will shutdown when the main battery's capac- ity is around 0% .
	* To exit the battery control panel, press "OK" from the command bar, or press <enter> key on keypad.</enter>
	"Schemes" Tab: (Figure 3-80)
	 * The Scheme tab allows you to determine when to switch to suspend mode when using either Battery Power or AC Power.
	 * Select Battery Power or AC Power as the power scheme from the pull-down list. (Figure 3-80)
	 * Select the time to suspend mode from the pull-down list. (Figure 3-81)
	"Device Status" Tab: (Figure 3-82)
	Show the power level of device. The power level ranges from " High(D0) " which means the device is at the highest power level to " Off(D4) " which means the device is at the lowest power level.
Note:	
1	This icon on the taskbar shows that the AC adapter pro- vides power to the PDT.
Ĩ	The icon on the taskbar shows that Main Batteries pro- vide power to the PDT.
9 7	The icon on the taskbar shows that the AC adapter pro- vides power to the PDT while charging the main batteries.

Power P	roperties		? OK ×
Battery	Schemes	Device St	atus
Power-			
Main b	attery	Backup	battery
.uS	Good	_	Good
<u> </u>	Low	$ \rightarrow $	Low
	Very Low		Very Low
Main ba	tteries —		
Remaini	ng power:	77%	
💦 🗞 Ре	owe 🏋	3:24	ам 🔛 🔁

Figure 3.77: Power

Power Properties	?	ок 🗙
Battery Schemes Devic	e Statu	5]
Power Scheme:		1
Battery Power	-	
Switch state to Suspend:		
After 5 minutes		-
After 4 minutes		
After 5 minutes After 10 minutes		
After 30 minutes		
Never		_
🍋 🖓 POWe 🕺 🗶 🍛 🖡 3	25 AM	A 19

Figure 3.79: Power

Power Properties		?	0K	×
Battery Schemes	Device S	Statu	JS	
Power Scheme:			ſ	'n
Battery Power		-		
Battery Power AC Power				
Switch state to <u>S</u> us After 5 minutes	pend:			_
Janer o minutes				•
🐉 🐁 Powe 🦞	3:2 9	AM	1	5

Figure 3.78: Power

Power Properties	7	' OK ×
Battery Schemes	Device Sta	atus
Device Name	Power Le	vel
NDS0:	High (D	0)
1		

Figure 3.80: Power



Figure 3.81: Power

3.2.17 Regional Settings

Table 3.35: Regional Settings			
lcon	Icon and function		
_	 "Region" Tab: (Figure 3-84) 		
	* Select the desired location/language.		
	* Review the Appearance samples in the bottom half of		
Regional	the screen.		
Settings	* Select the tab at the top for any settings you wish to change. Settings to modify include Number , Currency , Time , and Date .		

Regional Settings Properties OK 🗙				
Region Number Currency Time Date				
Your locale:				
English (United States)				
User Interface Language:				
English (United States)				
Appearance samples				
Time: 3:26:41 AM				
Short date: 12/7/2004				
Long date: Tuesday, December 07, 2004				
Positive numbers: 123,456,789.00				
Negative numbers: -123,456,789.00				
Positive currency: \$123,456,789.00				
Negative currency: (\$123,456,789.00)				
🦹 🤌 Regio 🕈 🎐 3:27 AM 💯 🖶				

Figure 3.82: Regional Settings

3.2.18 Remove Programs

Table 3.36: Remove Programs		
lcon	Icon and function	
<u></u>	"Remove Programs" Tab:	
- 39	* Only user installed programs can be removed.	
Remove Programs	- Select the program you wish to remove from the list and press the " remove " button.	

3.2.19 Storage Manager

Table 3.37: S	Storage Manager
lcon	Icon and function
	"Storage Manager" Tab: (Figure 3-83)
-	* To change storage properties control panel default set- tings:
Storage Manager	 Insert a Compact Flash (CF) or Secure digital (SD) storage card into the unit.
	 Select Start > Settings > Control Panel > Storage Properties
	 From the "Storage Info" pull-down list, select the desired storage device.
	 You can also format, dismount, and create parti- tions on storage devices using this control panel.
	 To save and exit the Storage Properties control panel, press "OK" from the control bar, or press the <enter> key on the keypad.</enter>
	- Caution: Dismounting or formatting the DiskOnChip will erase all files and programs stored in flash memory.

Storage Propertie	s	?	OK	×
Storage Manager				
Store Info:	ip M-S	•		
Capacity: 22.53 MB Unallocated: 5.00 KB Sector Size: 512.00 B Eormat Dismount				
Partitions:				
Part00 *	N	ew		
	De	lete	9	
	Prop	erti	ies	
🐉 🌏 Stor 😔 🍾	K) 12:3!	5 PM	9	5

Figure 3.83: Storage Manager

3.2.20 Stylus

Icon and function
"Double-Tap" Tab: (Figure 3-86, Figure 3-87)
 Double-tap the checkerboard grip at a comfortable speed.
* Double-tap clapboard to test your settings.
* The function is OK if the figures are changed from Fig- ure 3-86 to Figure 3-87.
* Tap " OK " to exit the Stylus Properties dialog box.
"Calibration": (Figure 3-88, Figure 3-89)
 * In the Welcome Wizard, you tapped a target with the stylus to set the amount of pressure needed for the screen to respond to your stylus taps. * Please also see 2.4.3 Calibration of the touch screen



Figure 3.84: Stylus Properties

Figure 3.85: Stylus Properties



Figure 3.86: Stylus Properties

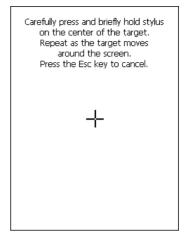


Figure 3.87: Stylus Properties

3.2.21 System

Table 3.39: Sy	stem		
lcon	Icon and function		
-	"General" Tab: (Figure 3-90)		
	* To show:		
System	- Firmware information		
System	- Information about processor type, memory size, and		
	expansion cards		
	"Memory": (Figure 3-91)		
	 Move the slider to adjust memory allocation. Default storage memory is normally is normally set to about 8 MB with the reminder assigned to program memory. 		
	* Press the "OK" key on the Keypad.		
	 Note: The difference between the memory occupied by the OS and the RAM size is shown in Information properties, along with the total size of storage memory and program memory "Device Name" Tab: (Figure 3-92) 		
	* Your device uses this information to identify itself to other computers.		
	* The input panel will open to for data entry.		
	* To close the Device Name , press the " OK " button, or		
	press the < Enter > key on the keypad.		
 "Copyrights" Tab: (Figure3-93) 			
	 Refer to this tab for specific copyright data. As a user, you are responsible for reading this statement. 		

System Properties ? OK ×		
General Memory Device Name		
System		
Microsoft?Windows?CE .NET		
Version 4.20		
Copyright ?1996-2003 Microsoft Corp. All rights reserved. This computer program is protected by U.S. and international copyright law.		
Computer		
Processor:	Intel(R) PXA255	
Memory: 128000 KB RAM		
Expansion cards:IEEE_802.11.		
Registered to:		
🐉 💐 Syste 📍	🎭 3:29 AM 💯 🖶	

Figure 3.88: System Properties

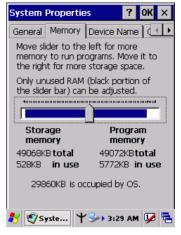


Figure 3.89: System Properties

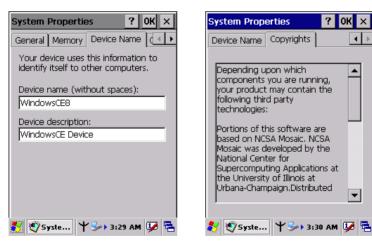


Figure 3.90: System Properties

Figure 3.91: System Properties

3.2.22 Volume & Sounds Properties

Table 3.40: Volume & Sound		
lcon	Icon and function	
	 "Volume" Tab: (Figure 3-94) 	
JO Volume &	* The factory default volume level is the four. You can	
	adjust the volume to your environment and comfort.	
Sounds	- Set the volume by adjusting the slider from Soft to	
	Loud, or press the right or left edge of the navigation	
	keys.	
	 "Sounds" Tab: (Figure3-95) 	
	* Enable the desired sounds for key clicks, screen taps,	
	notifications, and applications.	

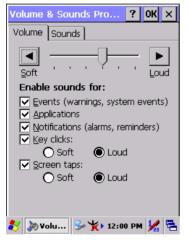


Figure 3.92: Volume & Sound

Volume & Sounds Pro	? 0K ×
Volume Sounds	
Event:	
Windows CE	•
Sound:	Preview:
(None) 🔻	
Scheme:	Save As
Windows CE Default 💌	
	Delete
🐉 🄊 Volu 📲 🕯 12:2	2 PM 💯 🔁

Figure 3.93: Volume & Sound

3.3 Taskbar and Start Menu

Table 3.41: Taskbar and Start Menu		
lcon	Icon and function	
Taskbar and	"General" Tab:	
Start Menu	 * In this tab, You can change the position of the Taskbar and Start Menu - Is always on top or not - Auto hide or not - Show Clock or not 	
	"Advanced" Tab:	
	 * Tap the "Clear" button to remove the contents of the Documents Menu. 	
	* Enable "Expand Control Panel" to list all icons of the Control Panel from top to bottom.	



Communication

This chapter describes how to use the communication features of the PDT.

Chapter 4 Communication

4.1 Installing & Setting Up Microsoft ActiveSync

4.1.1 Installing Microsoft ActiveSync on the Host PC

Microsoft ActiveSync is a file transfer tool to synchronize the files on a PC with the files on your PDT.

To install Microsoft ActiveSync, complete the following steps on the PC:

- Go to the Microsoft Windows CE.NET website and download the latest current version of ActiveSync: http://www.microsoft.com/mobile/pockeypc/downloads/.
- 2. Install the latest version of Microsoft ActiveSync on the host PC.
- 3. Open ActiveSync.
- 4. Select **File > Communication Settings** from AtiveSync's menu bar.
- 5. Go to "Using ActiveSync" on page 4-1 to continue using Active-Sync.

4.1.2 Connecting PDT to Host PC

- 1. You can use either the USB/Serial (RS232) port of Single Dock or a USB/Serial (RS232) cable to connect the PDT to the Host PC.
- To use the dock, you must first insert the PDT into the slot, making sure that the unit is firmly seated the dock.
- To use the cable, connect the USB/Serial cable to the PDT.
- 2. Connect the USB/Serial dock or cable to the Host PC's serial port or USB port.
- 3. Connect the dock or PDT to the power adapter and power source.

4.2 Using ActiveSync

Use ActiveSync to transfer and synchronize files between the PDT and the Host PC.

4.2.1 Setting up a Partnership

During the Microsoft ActiveSync installation, you were prompted to create a partnership with your mobile device. When you set up a partnership, you select synchronization and file conversation settings, which are contained in a file on your desktop computer. This file enables your desktop computer to recognize your device. Only devices that have a partnership with a desktop computer can synchronize information between the two computers.

For more information on partnerships, please refer to your Microsoft ActiveSync documentation or help file.

Transferring Files:

To transfer files, complete the following steps on the host PC:

- Select Start> Programs >Communication > (Serial, or USB) Activesync.
- Double-click on the selected ActiveSync icon
- After you have established a connection with PDT, tap the "Explore" button at the top of the ActiveSync window (or select Explore from the File menu).
- Navigate to the target directory on your PDT and copy the desired file by using the **Copy/paste** method or dragging and dropping the desired file(s) into the folder.



Figure 4.1: Communication

4.2.2 ActiveSync File Synchronization

ActiveSync files synchronization requires an ActiveSync partnership between the PDT and the Host PC. Refer to "Setting up a Partnership", above:

- Select the files in the synchronization configuration for the PDT partnership.
- Select **Tools** > **Options** from the ActiveSync command bar to configure the synchronization options.
- Place the file to be synchronized in the **Synchronization** folder created you're **My Documents** directory. Defaults to the desktop. During the ActiveSync connection, all files in the **Synchronization** folder will be synchronized to the **My Documents** directory on the PDT.



Figure 4.2: Connected

4.3 Networking

Please see the **3.2.14 Owner**, **Table 3-33 Owner** on page 3-45 for **setting up the network ID**. And see the **2.5.6 Setting Up Wireless LAN RF** to setup the 802.11b Wireless LAN for RF connecting.

CHAPTER CHAPTER

Software Applications

This chapter describes software implementation procedures.

Chapter 5 Software Applications

5.1 Introduction

The PDT includes Calculator and Inbox applications. You can start any program by tapping the Start Menu.

5.2 Software Applications

5.2.1 Calculator

This can process basic numeric calculations with "+", "-", "*" and "/".

* Procedure:

- Tap a number
- Tap an operator "+", "-", "*" or "/"
- Then, tap another number
- Tap another operator or number if needed
- Tap "=" to get the result

* Button Function:

- "MC" Clear memory
- "MS" Store the displayed number in the memory
- "MR" Read the last number that was stored
- "M+" Add the stored number to the displayed number
- "Backspace" Same as the "backspace" key
- "CE" Clear current number. Same as the "Delete" key
- "C" Clear the current calculation. Same as the "ESC" key

5.2.2 Inbox

Use Inbox to send and receive e-mail messages in the following ways:

- * Synchronize e-mail messages with Microsoft Exchange or Outlook on the Host Computer.
- * Send and receive e-mail messages by connecting directly to an email server through an Internet server provider (ISP) or a network.

To setup "Inbox":

* Select Start> Programs> Inbox.

- * Select Service> Options from the command bar. Drag the dialog to show the right edge so that you can configure e-mail.
- * Select "Add..." (Note 1)
- * In the "Service Type" list, select POP3 Mail or IMAP4 Mail. (POP3 is the most common mail protocol for ISPs). Enter a unique name for the e-mail service in the "Service name" field. This name cannot be changed later.
- * Select "OK".
- * The Mail Service Setup wizard appears after you add a service. If you are adjusting the settings of an existing service, select Service> Options, select the service you want to modify, and then select-Properties. In the Service Definition dialog box, complete the following entries as needed:
 - Connection: Select the name of the connection you created to connect to the mail server. If you are receiving e-mail through a network (Ethernet) connection, select Network Connection. If you want Inbox to use your current connection, select (none). If you have not created a connection, select Create new connection. Double-tap the "Make new Connection" icon, and follow the instructions in the wizard. When finished, select Inbox on the Taskbar and continue setting up the Inbox.
 - **POP3 Host** (POP3 only): Enter the name of the mail server you use to receive and send messages.
 - **Server** (IMPA4 only): Enter the name of the mail server you use to receive and send messages.
 - User ID: Enter the user name or mailbox ID assigned to you.
 - Password: Enter the password you use to access this mail account. If you do not want to be prompted to enter the password each time you connect, select "Save password".
 - Domain (Windows NT): Enter your Windows NT domain name. This name is required only when connecting to networks, such as a corporate network, that use Windows NT domain security. This is not required for most ISP accounts. If you have trouble connecting, try clearing this box.
 - SMTP Host: If your mail service uses a separate server for SMTP, enter the name in the box. If you're setting up a POP3 Mail service with an ISP, the ISP must use an SMTP mail gateway.
 - Return Address: By default, the return address is set to username@POP3host or username@Servername. This

depends on the service you are using. If this is not your e-mail address, enter the correct address in the box.

* Set general preferences:

If you are adjusting the setting of an existing service, select **Service> Options**, select the service you are using, select **Properties**, and then select **Next**. In the **General Preferences** dialog box, choose any of the following settings, all of which are optional:

- Disconnect service after actions are performed: Select to automatically disconnect from the server upon completion of all pending actions. This option minimizes connection time and cost.
- Check for new messages every: Select how often (in minutes) you want the device to check for new mail. If this option is turned off, you must check for new mail manually by selecting Services> Send/Receive Mail.
- Display a message box when new mail arrives (POP3 only): Select this to be informed that new mail has arrived.
- Display a message box when new mail arrives (IMAP4 only): Select this to be informed that new mail has arrived.
- Send using MIME format (POP3 only): Select this to send messages with extended characters.
- **Only display messages from last 3 days**: Select how many messages per day you want downloaded.

* Set inbox preferences

If you are adjusting the settings of an existing service, select Services> Options, select the service you are using, select Properties, and then select New twice. In the Inbox Preferences dialog box, choose any of the following options:

- Get message headers only: Select to save storage space and time by downloading only headers. You can download a full copy of the message later by selecting the message and then Services> Get Full Copy.
- **Include <number> lines**: Select to set the message length (approximate number of lines) that you want to download.
- Get Full Copy of messages: Select to receive a full copy of all messages. In addition to the message body, any options you select in When getting full copy will be downloaded. Selecting this option increases the amount of time needed to download messages.

- Only synchronize folder hierarchy under Inbox (IMAP4 only): Select to reduce download time by preventing the complete downloaded of the folder list every time you connect.
- Get meeting requests (POP3 only): Select to download and store copies of meeting requests when getting full copies of messages. This setting applies whether you have chosen to download full copies of messages by default, or you selectively download full copies of messages by opening the message and selecting Services> Get Full Copy Limitations apply.
- Get file attachments (POP3 only): Select to download and save message attachments when getting full copies of messages. This option may use significant RAM and network bandwidth. This setting applies whether you download full copies of messages by default, or selectively download full copies of messages by selecting Services> Get Full Copy.
- Get file attachments and meeting requests (IMAP4 only): Select to download and store meeting requests and message attachments when getting full copies of messages. This setting applies whether you download full copies of messages by default, or selectively download full copies of messages by selecting Services> Get Full Copy. Limitations apply.
- Only if small than (IMAP4 only): Select this to restrict the size of the attachments you download. Set this to 10 KB if you want to receive meeting requests only.
- * Include the original message in a reply:
 - Select Services> Options> Compose tab.
 - Under **Reply**, select **Include Body**. This setting will place a copy of the original message beneath your response text.
 - To indent the original message, select Indent.
 - To add leading characters (such as>) to the original message lines, select Add leading character, and enter the character you want.
- * Save copies of sent messages: By default, sent messages are not saved on your device. To enable messages to be saved automatically:
 - Select Services> Options> Compose tab.
 - Select Keep copy of sent mail in Sent folder.
- * Set the action to follow deleting, moving, or responding to a message:

- Select the Services> Options> Read tab.
- Select the desired options.

* Delete a message:

Select the message and then select **File> Delete**. Messages are moved to the Deleted (local) folder and deleted according to the option you have selected in the **Services> Options> Delete** tab:

- **On connect/disconnect:** Deletes messages when you connect or disconnect from your mail service or exit the Inbox.
- Immediately: Deletes messages as soon as you select File> Delete.
- Manual: Deletes messages when you select File> Empty Deleted (local)

Note: If you are working offline, messages are deleted from the device the next time you connect.

* Empty the Deleted (local) folder:

- Select File> Empty Deleted (local) to permanently delete messages in the Deleted (local) folder.
- To check or adjust the current settings for deleting messages, select the Services> Options> Delete tab.

* Move or copy a message:

- Select the message
- Select File> Move To or File> Copy To.
- Select the destination folder. If you are working offline, the message will be moved or copied from the server the next time you connect.

Caution: When you move a message that you have received through POP3 or synchronization to a folder you created on your device, the copy of the message on the server is deleted. This prevents duplicate copies of messages. Although the complete message is moved, message attachments will be deleted if you have not selected the option to download attachments. Once the message is moved, you will be able to access the message only from your device.

* Folder-

- Create a folder:
 - Select File> Folder> New Folder
 - Type a name for the folder.

• Delete a folder:

- Select the folder you want to delete
- Select File> Delete

• Designate a folder as offline:

Only IMAP4 folders can be designated as offline. All IMAP4 default folders, such as Inbox, are automatically designated as offline. Messages in offline folders can be viewed when you are disconnected from your mail server. If a folder is not designated as offline, you will be able to read and respond to messages in that folder only when connected to the server.

- To designate a folder as offline, select the folder and then select
 Service > Offline Folder.
- Rename a folder:
 - Select the folder you want to rename.
 - Select File> Folder> Rename Folder.
 - Type the new name for the folder.

Notes:

- Default folders, such as Inbox, can't be renamed.
- Folders you create for IMAP4 mail servers can't be renamed.
 - Synchronize folders while connected:

When you synchronize folders, the contents of your device folders and mail server folders are compared and updated. New mail messages are downloaded, and messages in your device Outbox folder are sent. The synchronization behavior depends on how you connect to your mail server.

- When you connect to a POP3 server, the Inbox and Outbox folders on your device are synchronized with the corresponding folders on the mail server. To synchronize after the initial connection, select Services> Send/Receive Mail.
- When you connect to an IMAP4 server, all folders, including the Inbox and Outbox, that are marked as offline are synchronized. To synchronize all folders after the initial connection, select Services> Synchronize Folders. To synchronize just the selected folder and the Outbox folder, select Services> Send/ Receive Mail.
- * Compose and send a message:
 - In list view, select Compose> New Message
 - Enter the address of one or more recipients, separating them with a semicolon. If the recipient is listed in the Address Book,

enter a few letters of the recipient's name and select **Compose> Check Name**. If there is only one match, the e-mail address is inserted. If there is more than one match, select the correct address from the **Choose E-mail Recipients** dialog box. If there is no match then add a new e-mail address through **Choose E-mail Recipients**.

- To attach a file, select File> attachments> Add Attachment.
- Select File> Send. If you are working offline, the message is moved to the Outbox folder and will be sent the next time you connect.

Tip: To see more header information, select the triangle in the lower-right corner of the header area. Select the triangle again to collapse the header area.

* Save a message:

 Select File> Save to save the message you are composing or editing.

The message is not sent and is saved in the inbox folder of the active service.

* Reply to or forward a message:

- Open the message, and then select Compose> Reply to Sender, Reply to All, or Forward.
- Enter your response.
- Select File> Send.

Tips:

- Selections in the Options dialog box determine whether the original text is included.
- To see more header information, select the inverted triangle in the lower-right corner of the header area. Select the triangle again to collapse the header area.

* Check Inbox status:

- In list view, select Compose> Status. You can view details such as the number of messages to be sent, deleted, and copied, and the number of attachments to be downloaded.
- * Download message from the server:
 - When you download messages, you need to create two connections: a remote connection and a mail server connection. The remote connection connects you and your ISP or network. The

mail server connection enables messages to be downloaded from your mail server to the Inbox on your device. When you select Services> Connect to Inbox, the Inbox starts a remote connection using the connection you specified when setting up the current mail service. If you are already connected through a remote connection other than the one you specified in the service, you will be asked if you want to use the current connection. If you choose not to, you will need to disconnect from the current connection before you can check for new messages.

- Select the Services menu and make sure that the service you want to use is selected (the selected service has a bullet next to it).
- Select Services> Connect. The messages on your device and mail server are synchronized: new messages are downloaded to the device Inbox folder, messages in the device Outbox folder are sent, and messages that have been deleted on the server are removed from the device Inbox. Double-tap a message list to open it.
- If you read a message and decide that you need a full copy, select File> Get Full Copy while in the message window or Services> Get Full Copy while in list view. This will also download message attachments and meeting requests if you have those options selected in the Inbox Preferences dialog box. You can also choose to download full copies of messages by default.
- When finished, select Services> Connect to disconnect. You also need to disconnect your dial-up connection by double-tapping the icon in the status bar and selecting Disconnect.

Notes:

- Receiving entire messages consumes memory.
- The size column in the Inbox list view displays the local size and server size of a message. Even when a message has been down-loaded fully, these numbers may differ because the size of a message can very between the server and the device.
- When using IMAP4 to get Outlook data, you will see the contents of your Journal folder. File editing transactions and documents (such as Task items, e-mail message, and Word documents) attached using drag and drop will appear as shortcuts on the device. A copy of the document will not be moved to your device, and the shortcut on the device cannot be used. To access the documents

associated with a journal entry on the device, attach the document to the entry rather than dragging and dropping it. Also, be sure to set your IMAP4 service to receive full copies of messages, attachments, and meeting requests. For more information on using the Journal, see the Help for the desktop version of Outlook.

* Working with Message Attachments:

 If you receive messages through a remote mail server, in Inbox on the device, select the Get file attachments and meeting requests (IMAP4) or Get meeting requests (POP3) setting in the Inbox Preferences dialog box. For more information, see Set Inbox preferences.

Notes:

- Embedded images and OLE objects cannot be received as attachments.
- Embedded messages can be viewed as an attachment when using IMAP4 to receive e-mail. However, this features does not work if TNEF is enabled so that you can receive meeting requests.

* Check attachments status:

- An attachment sent with an e-mail message, whether it has been downloaded or not, will appear as an icon at the bottom of the message in its own window. If you don't see this pane, select File> Attachments> Show Attachments. If TNEF is turned on so you can receive meeting requests, you will not see attachments until they are fully downloaded.
- To mark an attachment for downloading in a POP3 or IMAP4 service, double-click it. The attachment will be downloaded the next time you connect. You can also set Inbox to download attachments automatically when you get a full copy of a message. For more information, see Receive attachments.

* Open an attachment:

With the message open, double-tap the attachment's icon at the bottom of the message. If you don't see this pane, select File> Attachments> Show Attachments.

* Store an attachment:

- Select Service> Options> Storage tab.
- Select to store attachments in internal RAM or on a storage card.
- If you use more than one storage card, select it from the list.

Note: Once you make the above selection, all attachments will be moved to the selected card.

- * Delete an attachment:
 - To delete an attachment from a message you are sending, select the attachment, and then select Edit> Clear or press the DEL key on the keypad.
 - To delete an attachment you have received, delete the message.
- * Attach a file to a message:
 - With the message open, select File> Attachments> Add Attachment.
 - Select the file you want to attach.

Note:

OLE objects cannot be attached to Inbox messages.

Note 1: To add a mail service, select "Add", To remove a mail service, select the service from the Installed service box and select "Remove". To view a mail service's properties, select the service from the Installed service box and then select Properties.

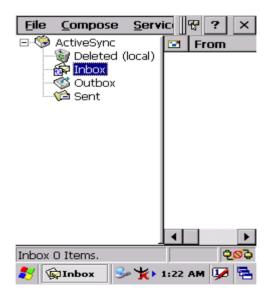


Figure 5.1: Inbox

5.2.3 Internet Explorer

With the Internet Explorer, it is possible to view the Web or intranet Web pages. A modem or WLAN is required to connect to an Internet server provider (ISP) or network.

5.2.3.1 Connect to the Internet

To view Web pages, set up a remote connection to your ISP or network.

5.2.3.2 Start Internet Explorer

- * Open Internet Explorer by selecting Start > Programs > Internet Explorer.
- * To setup the default home page, navigate to the web page that is desired for use as the default web page.
- * Select View > Internet Options from the command bar.
- * Enter the desired URL in the **Start page** field.
- * Press the **OK** button.



Figure 5.2: Internet Explorer

5.2.3.3 Navigation control

Internet Explorer uses sliding menus for navigation control. Tap and drag the sliding menus to the left or right to reveal hidden menu items and toolbars.

To view a larger screen space in the Internet Explorer, hide the **Status** bar and the **View** menu. From the top menu bar, select **View > Hide Tool-bars**.

Once hidden, it is necessary to "cold reset" these features to access them again. (Refer to "2.7.2 Cold Reset" for more information.)

5.2.3.4 Set up a proxy server

Proxy servers are often used when connecting to the Internet through a local network for added security.

- * Select View > Internet Options > Connection Tab.
- * Select Access the Internet using a proxy server.
- * Enter the proxy server address and port. For more information, see your administrator.
- * To bypass the proxy server of a local address, such as corporate intranet pages, select **Bypass proxy for local address**.

5.2.3.5 Enable cookies

A cookie file contains information about identity and preferences so that a website can tailor information. The website automatically sends the file to the receiving device.

- * Select View > Internet Options > Security Tab.
- * Select Allow cookies.

5.2.3.6 Search for an internet site

* Select **View > Go > Search** to search the web.

5.2.3.7 Go to an internet address

- * Select Address Bar, if necessary to display the Address bar
- * Enter the address.
- * Press "ENTER" key.

5.2.3.8 View previously visited sites

- * Tap the Arrow button at the right site of the Address Bar.
- * Select the desired Web Address to view.

5.2.3.9 Add and view favorites

- * Go to the desired page.
- * Select Favorites > Add To Favorites.
- * If necessary, locate the appropriate folder.
- * Confirm or change the name and save the site address.

* To view favorite Web sites, select **Favorites** and highlight the Web page to view. IE automatically navigates to the website.

Note:

To organize the favorites list, select **Favorites > Organize Favorites**.

5.2.3.10 Browse Web pages

- * To view a page previously visited, select **View > Back**.
- * To move forward again to the next page (provided it was viewed previously,) select **View > Forward**.
- * To return to the Home page, select **View > Go > Home**.

5.2.3.11 Refresh current page

* Select View > Refresh.

5.2.3.12 Stop loading a page

* Select View > Stop.

5.2.3.13 View current page

- * Select View > Internet Options.
- * To view the protocol, page type, size, and address, select the **General** tab.
- * To view the security information about the page, select the **Security** tab.

5.2.3.14 View HTML source code

- * While viewing the page, select **File > Save As** and save the file as a .txt file.
- * Open the file in a word processing program, such as **WordPad**.

5.2.3.15 Change home and search page settings

- * Select and open the page to use as the home or search page.
- * Select View > Go > Home or Search.

5.2.3.16 Save a copy of current page

It is possible to save web pages and view them later when disconnected from the Internet or Intranet, without using cached memory.

- * Select File > Save As
- * Specify a folder location and give the file a name.

5.2.3.17 Copy a web page to a document

- * Select all or part of the web page to be copied.
- * Select Edit > Copy.
- * Go to the text or html document to place the information, and select the location in the text.
- * Select Edit > Paste.

5.2.3.18 Select security options

- * Select View > Internet Options > Security tab.
- * Select the necessary security protocols.

5.2.3.19 Change the font size

* Select View > Text Size and select the desired size.

5.2.4 Media Player

The PDT comes with Media Player for Windows CE.NET installed.

- * Open Media Player by selecting Start > Programs > Media Player from the desktop.
- * Select File > Open to open a new media file.
- * Please refer to <u>www.microsoft.com</u> for additional information and help with your Microsoft Windows Media Player.



Figure 5.3: Media Player

5.2.5 Messenger

- * The Windows CE Messenger client application in Windows CE.NET allows real-time communication using text-based messaging, VOIP, and more.
- * See who's online, and when colleagues are online. Notify a predefined list of watchers about any pertinent information.
- * Talk with a colleague anywhere in the world using a microphone and speakers. Windows Messenger supports high-quality voice calling on a Windows CE device.
- * Communicate using Session Initiation Protocol (SIP) or Hotmail contacts Windows Messenger supports. Communication with colleagues using a SIP based communications service. Talk to Hotmail contacts using .NET Messenger.

5.2.6 Microsoft WordPad

Create and edit documents and templates in WordPad, using buttons and menu commands that are similar to those in the desktop version of Microsoft Word. It is possible to work with files in Normal or Outline views.

WordPad documents are usually saved as **.pwd** files, but it is possible to save documents in other file formats, like **.rtf** or **.doc**.

5.2.6.1 Selecting and editing text

* Select text

To select	Do this
Any amount of text	Drag the stylus over the text.
A word	Double-tap the word.
A single paragraph	Triple-tap within the paragraph.
An entire document	Select Edit > Select All
An picture	Tap the picture

* Find text

- To search for text in one part of a document, select that part. Otherwise, the whole document is searched.
- Select Edit > Find
- Enter the text you want to find. For a paragraph, enter ^p. For a tab stop, enter ^t.
- Select the search options you want.
- To continue searching, select **Edit > Find > Next**.

* Replace text

- To replace text in one part of a document, select that part. Otherwise, the whole document is searched.
- Select Edit > Replace.
- Enter the text to replace and the text to substitute. For a paragraph, enter ^p. For a tab stop, enter ^t.
- Select the replacement options.
- Select Find Next.
- On the **Find/Replace** toolbar, select the appropriate button.

* Move, copy, or delete text

- Select the text you want to move, copy, or delete.
- To move or delete text, select the **Cut** button. To copy text, select the **Copy** button.
- To paste the information, move the insertion point to the desired location, then press the cursor over a **Paste** button.

Notes:

- To undo an action, select **Edit > Undo**.
- To restore the action, select **Edit > Redo**.

5.2.6.2 Formatting text

- * Creating bulleted and numbered lists.
 - Select the **Bullets** or **Numbering** button.
 - Type the first item.
 - Press ENTER, type the next item, and repeat as needed.
 - Select the button again to end list formatting.

Note: To change the number style for the selected list, select **Format > Paragraph**, In the **Format** list, select the style you want.

* Set the default font

- Select Format > Font.
- Select the font from the list of available fonts.
- Select Set As Default
- To confirm that changes will be applied to subsequent documents, select Yes.

Note: To apply the default font and stylus to selected text, select **Apply Default**.

* Select a different font

- Select the text you want to change. To select all text, select Edit
 Select All.
- From the **Font** list, select the desired font.
- From the **Font Size** list, select a size.

Note: To see more formatting options, select Format > Font.

* Change font formatting

- Select desired text.
- Select the **Bold**, **Italic**, or **Underline** button.
- To change the font color, select Format > Font and select the color from the Color list.
- * Adjust the paragraph alignment
 - Select the paragraph to align using the mouse and cursor.
 - Select the Align Left, Center, or Align Right button.

Note: To see more formatting options, select **Format > Paragraph**.

* Indent a paragraph

- Select the paragraph to indent.
- Select Format > paragraph.
- Adjust the indentation settings as needed.

* Set tabs

- Select Format > Tabs.
- Change the tab settings as needed.

5.2.6.3 Adjusting the Display

* Wrap text in the window

- Select View > Wrap to Window.

* Display the document in full screen view

- Select View > Full Screen.
- To exit Full Screen view, select **Restore**.
- To move the **Restore** button, drag the bar on the left side.

* Display or hide scroll bars

- Select View > Horizontal Scroll Bar or Vertical Scroll Bar.

* Zoom in or out

- Select **View > Zoom**, and select the desired percentage.

Note: For Custom, enter the exact percentage and select OK.

5.2.6.4 Working in outline view

- * Switch between Normal and Outline views
 - Select View > Normal or Outline.

* Assign and change outline levels

- Select **View > Outline**.
- Select the appropriate buttons on the toolbar.

5.2.6.5 Inserting symbols

- * Place the insertion point where you want to insert the symbol.
- * Select Tools > Insert Symbols.
- * Select the symbol you want, and then select **Insert**.

Tips:

If selecting a different font (or subset of a font), a different set of symbols will be displayed.

5.2.6.6 Printing a document

- * Select File > Print.
- * Select the desired printing options.

Tips:

- **Port** lists the available printer ports.
- If **Network** is selected from the **Port** list, enter the path to the network printer to the **Net Path** box.

5.2.6.7 Setting a password for a document

* Select File > password.

- * Type and verify the password.
- * Saving the document is necessary (File > Save) to return the password.

5.2.6.8 Converting Documents

* About document conversion

If an e-mail program is installed and receives an attached Word document or template created in Word version 6.0 or later, Word-Pad can convert the file. To view the document, simply open the attachment in WordPad.

During conversion, some formatting attributes may be changed or lost. To avoid losing these attributes permanently, close the file after viewing it, rather saving the file on the device. If saving the file, save it with a different file name.

For more information about performing conversions on your device, study the following topics:

* Changes caused by Word document conversion

- Formatting
 - Borders and Shading

Borders and shading are not displayed in WordPad, but are restored if converted back to a Word document. Shading is not restored when used in a table, but simple borders are restored.

- Character formatting Bold, italic, strikethrough, superscript, subscript, and hidden text are retained and displayed. Other effects are changed or removed.
- Colors

Colors are retained and mapped to the colors available on the current system.

- Fonts and font sizes

Fonts not supported by your mobile device are mapped to the closest font available in WordPad.

- Page Formatting

Headers, footers, footnotes, columns, pages setup information, and style sheets are removed during conversion to WordPad. WordPad supports built-in headings.

- Paragraph formatting

Tabs, alignment, bullets, indentation, simple numbered lists, and paragraph spacing are retailed and displayed in WordPad.

• Pictures

Pictures are removed during conversion.

• Table of Contents

Table of Contents text and some formatting are preserved. However, any text set at right-aligned tab stops may wrap to the next line.

- *Index* Index text and some formatting are preserved.
- Tables

Tables appear as tab-delimited text. Cells containing wrapped text, tabs, or paragraph markers may be difficult to read. Simple tables are displayed accurately and restored when converting a WordPad file back to a WordPad document.

• OLE Objects

OLE Objects are removed during conversion.

• *Revisions marks, annotations, and comments* Revision marks are visible but cannot be changed. Annotations and documents are removed during conversion.

5.2.7 Remote connection

The Remote Desktop Connection can log onto the Windows Terminal Server and then access and use all the programs installed on the server. For example, instead of running Microsoft Pocket Word, you can run the desktop version of Microsoft Word.

5.2.7.1 Connecting to terminal server

- * Select Start > Programs
 > Remote Connection, or run 'CETSC' from the command prompt.
- * In the Server box, type or select a Terminal Server, a name or TCP/IP address, or select a server in the drop-down list.
- * Select Connect.
- * In the **Remote Connec**tion window, type your user name, password, and domain, (if required), and then select **OK**.

Remote Desktop Connection ? 🗙
Computer:
Connect Options >>
Inbox
e
Internet
Explorer
教 🍓 Remo 🕪 🏌 9:41 AM 💯 🖷

Figure 5.4: Remote Connected

5.2.7.2 Disconnecting without ending a session

- * In the **Remote Connection** window, select **Start > Shutdown**.
- * Select **Disconnect** > **OK**.
- **Note:** If previously disconnected from a Terminal Server without ending the session, the Terminal Server will continue to execute any running processes; the Remote Connection can later reconnect to this same session (provided that the administrator has configured Remote Connection to reconnect later to disconnected sessions).

5.2.7.3 Disconnecting and ending a session

- * In the **Remote Connection** window, select **Start > Shutdown**.
- * Select Log Off > OK.

5.2.8 Windows Explorer

Windows Explorer works almost the same on a PDT as it does on the PC. See the topics below for information about the difference between Windows Explorer on each device.



Figure 5.5: Windows Explorer

5.2.8.1 Navigating in file view

* Go forwards and back

- To go back to the previous folder, select **Go > Back**.
- To go forward again to the folder previously viewed, after having gone back, select Go > Forward.

* Use the Go menu

- To quickly access the My Documents folder, select Go > My Documents
- To see all folders that have been accessed, select Go > History.
 Double-tap a folder to return to it.

5.2.8.2 Viewing files as icons lists

- * To view icons, select **View > Large Icons** or **Small Icons**.
- * To view a list, select **View > Details**.

5.2.8.3 Working with files and folders

* Create a new folder

 If necessary, open the folder in which the new folder is to be placed.

- Select File > New Folder.
- * Add a folder to your Favorites list
 - Open the folder
 - Select Favorites > Add to Favorites.
 - In the **Name** box, type the shortcut name.

Tips:

- To open a favorite file or folder, select **Favorites** and then select the folder.
- To organize your favorites, select **Favorites > Organize Favorites**.
- * Transfer a file using infrared
 - To send a file, select it, line up the infrared ports, and select File
 > Send To > Infrared Recipient.
 - To receive a file, line up the infrared ports, and select File > Receive.

5.2.8.4 Creating desktop shortcuts

- * Display the file or web page for which a shortcut is needed.
- * Select File > Send to.
- * Select **Desktop as Shortcut**.

5.2.8.5 Switch to internet

* Type a URL in the address bar.

5.3 DiskOnChip

The DiskOnChip helps to save applications or data files onto a Flash Memory device.

Note: The DiskOnChip storage memory resists all reset (warm/cold reboot) conditions and software/firmware updates.

It is strongly recommended to install all applications, applets, programs and important data files onto a DiskOnChip Flash.

Caution:

If an application or a data file is only installed or saved in the RAM, a hard reset will result in the loss of that application or data file.

5.3.1 Saving to flash

To save an application or data to the Flash Memory, from the current application, select File > Save As > navigate to the **DiskOnChip** location and save it.

5.3.2 DiskOnChip location

To access the contents of files in the DiskOnChip storage:

- * Double-tap the **My Computer** icon on the desltop.
- * Double-tap the **DiskOnChip** icon to view **DiskOnChip**.



Figure 5.6: DiskOnChip

5.3.3 DiskOnChip size

The size of the DiskOnChip will vary, depending on the size of system firmware.

- Inside the DiskOnChip directory, tap File > Properties.
- * The **DiskOnChip Properties** dialog:

The number listed after **Free** is the amount of memory bytes currently available on the device for the Dis-kOnChip system.



Figure 5.7: DiskOnChip Size



Barcode Setting

This appendix provides instructions for customizing the barcode engine.

Appendix A Barcode Setting

A.1 Setup Tab

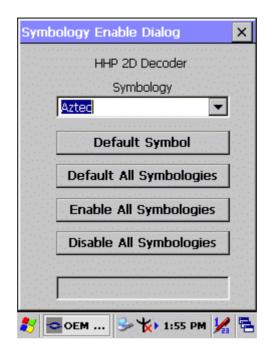
Setup	Update			×
<u>S</u> ymbo	logy Setup			
Decod	er Setup			
Option	IS		ast	
	urrent Conf e Config Fra			
<u>E</u> xit			₽\$	
Device ID): IT4080 -	31205122-0)63	
				\mathbf{v}
灯 🔤 o	EM 😼	₩ 1:55 P	м 🏒	٩.

Item	Explanation
Symbology Setup	Selecting the Symbology Setup menu item causes the symbology setup dialog to be displayed. This dialog consists of a symbology drop down list, plus four buttons and a message box.
Decoder Setup	Selecting the decode menu item displays the decode options dialog box.
Options	Selecting the Options Menu item displays the Setup dialog box

ltem	Explanation
Save Current Config to File	The application has the capacity to save the Config file. The Config file that is saved when this item is selected is correlated to the Config that is currently active. A dialog is presented and requests selection of a name for the file to save. The default file extension matches the current active Config. Saving a Config file this way is independent from the Config Format option of the Imager menu. In this case, the Config file is saved as it appears on the screen instead of how it was received.
Restore Config From File	This selection restores the Config from any file. The restored Config file is full size, uncompressed, and unprocessed.
Exit	Selecting Exit shuts down the Application Program.

A.1.1 Symbology setup

Selecting the Symbology Setup menu item display the symbology setup dialog. This dialog consists of a symbology drop down list, plus four buttons and a message box.



ltem	Explanation
Default Symbol	Defaults the current symbology shown in the drop down list to the internal default.
Default All Symbologies	Defaults all symbology options for all symbologies to the internal defaults.
Enable All Symbologies	Enables all symbologies, but does not change other symbol options.
Disable All Symbologies	Disables all symbologies without affecting other symbol options.

A.1.2 Decoder setup

Decode And Display Options
Decode Options
Timeout (milliseconds)
Multiple Symbols Mode Enable
Use Aimers During Decoding
Center Window (% Of Dimens
Width 20 🕂 Height 20 🕂
Display Options
 Display Symbol Molmation Display No Decode Message
Apply
🦹 🔤 ОЕМ 🎐 🏠 3:36 РМ 🧏 🚍

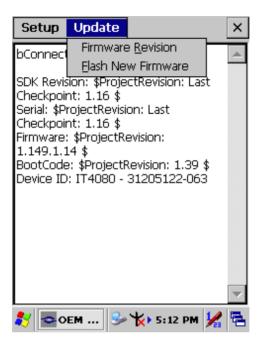
ltem	Explanation
No Read Timeout	Maximum time (in milliseconds) that the imager attempts to decode before declaring a "No Decode" condition. If attempting to decode using the trigger key, the imager quits decode attempts even if the trigger key remains depressed. A new decode using the trigger can only begin after the trigger is released. The timeout also applies to the decode operation of the imaging technology. The Timeout range is 0, meaning no time- out, (i.e., infinite) to 300,000.
Multiple Symbols Mode	Enables/Disables multiple symbols decoding. Normally the imager stops attempting to decode when a bar code symbol is decoded. In multiple symbols mode, the imager does not stop until the trigger is released or a "No Decode" timeout occurs. The same bar code will not be read again until the current decoding stops.

ltem	Explanation	
Aimers During Capture	Enables/Disables aimers during decoding.	
Center Window Decode Enable	A decoded symbol is returned only if it intersects a rectangle specified by the center window.	
Center Window	Center Window indicates the percent-age of width and height of the center decode rectangle, relative to the entire image. The limits are 0-100%. The default is 20x20 (128x96 pixels).	
Display Symbol Information	The Display Symbol Information option enables / disables display of decoded symbol information, which includes the AIM ID, SymID (Code ID), and symbol modifier.	
Display No Decode Message	Enables / disables display "No Decode" message if no bar code symbol is decoded by either a timeout or trig- ger release.	

A.1.3 Options

Option	×	
_[Behavior ———		
Trigger Timeout	6 💌	
Termination Code		
Beep after data co	llect 1 🔻	
Auto Scan	Disable 💌	
Label —		
prifix suffix		
ОК		
🐉 🔤 OEM 🕪 Y	🐼 3:36 РМ 🧏 🗟	

Item	Explanation		
Trigger Timeout	Select the scanning timeout duration (in seconds) from the pull-down list. <3 ~ 10 sec, <u>Default: 6</u> >		
	None	After showing barcode, no action.	
Termination Code	<u>CRLF</u>	After showing the barcode, jump to next row.	
Code	Space	After showing the barcode, jump one unit.	
	Tab	After showing the barcode, jump a section.	
Beep after data collect	Select a beep tone after data is collected.		
	<u>Disable</u>	Disable this function.	
Auto Scan	1 ~ 5 sec	Alternate number of seconds for Continuous Scan.	
Label	Prefix	Type the desired label prefix in this text box.	
	Suffix	Type the desired label suffix in this text box.	



Item	Explanation
Firmware Revision	When this item is selected, the imager is queried for the current firmware version information. The version information is then displayed in the text window.
Flash New Firmware	This item allows new engine firmware to be installed into the imager. When Flash New Firmware is selected, a prompt to select the firm- ware file appears. The file, which must have the extension ".bin", must reside on the PDT. The firmware file can be copied to the PDT using Microsoft Explorer as long as the PDT is linked to the PC via Microsoft's Active Sync. The default search location is the My Documents folder. Once a file is selected, the file is transferred to the engine. The engine then writes the new firmware into flash memory and re-initializes. The flashing of the firmware and subsequent restart takes approximately 30 seconds. The application insures that the unit does not enter suspend mode during that time. Note: It is very important that the device remains awake during this time. Failure to do so can cause the scan engine to become unusable.

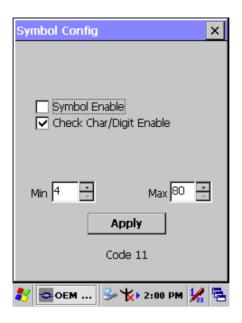
A.3.1 Aztec

✓ Symbol Enable ■ Enable Aztec Runes
Min 1 📩 Max 375 🕂
Apply
Aztec
87 ∞оем 🥪 🏷 1:56 рм ½ 🖷

Item	Explanation
Symbol Enable	Enable this barcode.
Enable Aztec Runes	Enable if you are scanning Aztec Runes, the smallest type of Aztec Code symbols, which have the capacity to encode a very short license plate message.
Message Length	The minimum and maximum length ranges for the barcodes are 1 - 3750.

Symbol Config	×
 ✓ Symbol Enable Check Char/Digit Enable Check Char/Digit Transmit Start/Stop Transmit 	
Min 4 🚔 Max 60	•
Apply	
Codabar	
🧞 🔤 ОЕМ 🞐 🏌 1:56 РМ	1/2 🖻

Item	Explanation
Symbol Enable	Enable this barcode.
Check Char/Digit Enable	The scanner can read barcode data with a check digit. If this item is not checked, the bar code is read as though no check digit was present.
Check Char/Digit Transmit	The scanner will only read Codabar bar codes printed with a check digit, and will transmit this character at the end of the scanned data. This setting is only valid if check char/digit is enabled.
Start/Stop Transmit	Start/Stop characters identify the leading and trailing ends of the barcode.
Message Length	The minimum and maximum length ranges for the barcode are 2 - 60.



Functions:

Item	Explanation
Symbol Enable	Enable this barcode.
Check Char/Digit Enable	This option sets whether 1 or 2 check digits are required with Code 11 type barcode.
Message Length	The minimum and maximum length ranges for the barcode are 1 - 80.

Check Digits Required

Default = Two Check Digits.

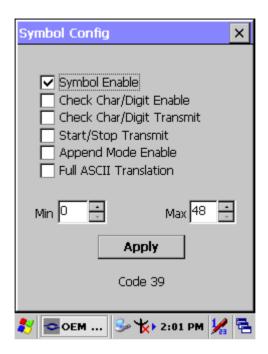




A.3.4 Code 128

Symbol Config	×
Symbol Enable	
Min 0 📫 🛛 Max 80 🕂	1
Apply	
Code 128	
🦹 🔤 ОЕМ 🞐 🏠 1:57 РМ 🧏	٩.

Item	Explanation
Symbol Enable	Enable this barcode.
Message Length	The minimum and maximum length ranges for the barcode are 0 - 80.



Item	Explanation
Symbol Enable	Enable this barcode.
Check Char/Digit Enable	The scanner reads barcode data with a check digit. If not checked, the barcode will be read as though no check digit was present.
Check Char/Digit Transmit	The scanner will only read Code 39 type barcodes printed with a check digit, and will transmit this character at the end of the scanned data. This setting is only valid if check char/digit is enabled.
Start/Stop Transmit	Start/Stop characters identify the leading and trailing ends of the barcode.

Item	Explanation
Append Mode Enable	If this box is checked, the scanner can append the data from several Code 39 barcodes together before transmitting them to the host computer. When this function is enabled, the scanner stores those Code 39 barcodes that start with a space (excluding the start and stop symbols), and doesn't immediately transmit the data. The scanner stores the data in the order in which the bar- code are read, deleting the first space from each. The scanner transmits the appended data when it reads a Code 39 bar code that starts with a character other than a space, or when it reads a barcode that is not Code 39.
Full ASCII Translation	If Full ASCII Code 39 decoding is turned on, certain character pairs within the barcode symbol will be interpreted as a single character.
Message Length	The minimum and maximum length ranges for the barcode are 0 - 48.

A.3.6 Code 49

Symbol Config	×
Symbol Enable	
Min 1 🐳 Max 81 🐳	
Apply	
Code 49	
🐉 🔤 ОЕМ 🎐 🏌 2:01 РМ 🖌	

Item	Explanation
Symbol Enable	Enable this barcode.
Message Length	The minimum and maximum length ranges for the barcode are 1 - 81.

A.3.7 Code 93

Symbol Config	×
Symbol Enable	
Min 0 📥 Max 80	i i i
Apply	
Code 93	
鸄 💁 ОЕМ 🎐 🏌 2:01 РМ 🛛	1

Item	Explanation
Symbol Enable	Enable this barcode.
Message Length	The minimum and maximum length ranges for the barcode are 0 - 80.

A.3.8 Composite Codes

Symbol Config X
Symbol Enable Enable UPC-A/EAN-13 Composite
Min 1 Max 243
Apply
EAN-UCC Composite
鸄 💁 ОЕМ 🎐 🏠 2:02 РМ 🖌 🖷

Item	Explanation
Symbol Enable 🔲	Enable this barcode.
Enable 🔲 UPC-A/ EAN-13 Composite	Enable to scan UPC-A/EAN-13 Composite codes.
Message Length	The minimum and maximum length ranges for the barcode are 1 - 2435.

A.3.9 Data Matrix

Symbol Config 🛛 🗙	;]
Symbol Enable	
Min 1 📩 Max 150 📩	
Apply	
Data Matrix	
鸄 💁 ОЕМ 🎐 🏌 2:03 РМ 🖌 🖣	2

Item	Explanation
Symbol Enable	Enable this barcode.
Message Length	The minimum and maximum length ranges for the barcode are 1 - 1500.

A.3.10 EAN-8

Symbol Config	×
 Symbol Enable Check Char/Digit Transmit Enable 2 Digit Addenda Enable 5 Digit Addenda Addenda Required Include Addenda Separator 	
Apply	
EAN-8	
💦 🔤 ОЕМ 🦻 🏌 2:04 РМ 💃	

Item	Explanation
Symbol Enable	Enable this barcode.
Check Char/Digit Transmit 🔽	Output the check digit at the end of the scanned data.
Enable 2 Digit Addenda	Option allows decoding and outputting of a 2 digit addendum at the end of all scanned EAN-8 data.
Enable 5 Digit Addenda	Option allows decoding and outputting of a 5 digits addendum at the end of all scanned EAN-8 data.
Addenda Required	Only reads EAN-8 barcodes that have addenda.
Include Addenda Separator	When this feature is selected, the data is output with a space between the data from the main barcode and the data from the addenda. When turned off, there is no space.

Symbol Config	×
 ✓ Symbol Enable ✓ Check Char/Digit Transmit Enable 2 Digit Addenda Enable 5 Digit Addenda Addenda Required ✓ Include Addenda Separator 	
Apply	
EAN-13	
鸄 🔤 ОЕМ 🦻 🏌 2:04 РМ 💃	5

Item	Explanation
Symbol Enable	Enable this barcode
Check Char/Digit Transmit 🔽	The output of the check digit at the end of the scanned data.
Enable 2 Digit Addenda	Option allows decoding and outputting of a 2 digits addendum on the end of all scanned EAN-13 data.
Enable 5 Digit Addenda	Option allows decoding and outputting of a 5 digits addendum on the end of all scanned EAN-13 data.
Addenda Required	Only reads EAN-13 barcodes that have addenda.
Include Addenda Separator	When this feature is selected, the data is output with a space between the data from the main barcode and the data from the addenda. When turned off, there is no space.

Symbol Config	×
✓ Symbol Enable Check Char/Digit Enable Check Char/Digit Transmit	
Min 🗧 🕂 Max 80	-
Apply	
Interleaved 2 of 5	
🐉 🔤 ОЕМ 🎐 🏌 2:04 РМ	1/2 🗟

Item	Explanation
Symbol Enable	Enable this barcode.
Check Char/Digit Enable	The scanner reads barcode data with a check digit. If not checked, the barcode will be read as though no check digit was present.
Check Char/Digit Transmit	The scanner will only read Interleaved 2 of 5 barcodes printed with a check digit, and will transmit this character at the end of the scanned data. This setting is only valid if check char/digit is enabled.
Message Length	The minimum and maximum length ranges for the barcode are 2 - 80.

A.3.13 MaxiCode

Symbol Config X
Symbol Enable
Min 1 + Max 150 +
Apply
MaxiCode
🧞 🔤 ОЕМ 🦻 🏌 2:05 РМ 🧏 🖷

Item	Explanation
Symbol Enable	Enable this barcode
Message Length	The minimum and maximum length ranges for the barcode are 1 - 150.

A.3.14 MicroPDF417

Symbol Config X
Symbol Enable
Min 1 + Max 366 +
MicroPDF417
🎝 🔤 ОЕМ 🎐 🦕 2:07 РМ 🧏 🖷

Item	Explanation
Symbol Enable	Enable this barcode.
Message Length	The minimum and maximum length ranges for the barcode are 1 - 366.

A.3.15 OCR-A, OCR-B, US Currency

Setup OCR	ahla Dialog 🛛 🗙 🗙
	ocr-A 🔿 ocr-B 🔿 US Cu
	RtoL O TtoB O BtoT
Template:	dddddd
Group G:	
Group H:	
Check Char:	
	Apply
🐉 🔤 ОЕМ	🎐 🏌 2:07 PM 🧏 🖷

The imager is able to read machine readable fonts used in optical character recognition (OCR). The imager can read from 6 to 60 point OCR type-face.

OCR Mode

• OCR-A

D123456789ABCDEFGHIJKLMN0P@RSTUVWXYZ ()<>/\+-*≑

• OCR-B

0123456789 ABCDEFGHIJKLMNOPQRSTUVWXYZ ()<>^+-*\$ • U.S. Currency Serial Number (Money)

I 07700277 F

• MICR E-13B

0123456789 4 / # **

SEMI Font

ABCDEFGHIJKLMNOPØRSTUVWXYZ-.0123456789

Either select an OCR default, or create a custom template for the type of OCR format intended to read. (*See* "OCR Templates" to create a custom "template" or character string that defines the length and content of OCR strings to be read with the imager.)

Note: Setting the template and check character options are essential for OCR reading.

OCR Off turns off all OCR capability in the scanner, so the scanner will be able to scan linear, stacked, matrix, and composite bar codes, but not OCR fonts. In addition, any OCR templates previously created are erased. The 8 digit default templates are reinstated for any future use of the OCR-A, OCR-B, or U.S. Currency fonts.

If OCR-A, OCR-B, or U.S. Currency are selected, it is possible to scan characters in that font. The default setting allows scanning of any 8 digit combination. If creating an OCR template, character combinations that fit the template can be scanned. (see Creating an OCR Template).

OCR Direction

The **OCR Direction** setting helps to prevent misreading of character strings that could be interpreted differently in unique orientations if the orientation of the characters being read is specific in relation to the position of the imager; for example, "80086996" can read as "80086996" or "96698008." The default is Left-to-Right, (*LtoR*).

A.3.15.1 OCR Templates

A custom "template," or character string defines the length and content of OCR strings that will be read with the imager. Several choices are available when creating a custom template for the application. Create a template for a single format, string together several formats, or you can create a template for a user-defined variable. These choices are described in more detail below.

A.3.15.2 Creating an OCR Template

A single template programs the imager to read any combination of characters in the specified order. Refer to examples according to the Template Characters table below.

а	Represents any alphanumeric character (digit or letter)				
С	Represents a check character position				
d	Represents any digit				
е	Represents any available OCR character				
g	Represents character from user-defined variable "g"				
h	Represents character from user-defined variable "h"				
1	Represents any uppercase letter				
t	Marks the start of a new template				
r	Multi row indicator				
All other charac	ters represent themselves. Spaces can be used.				
<i>Note</i> : In MICR E13 B templates, TOAD characters (capital letters T, O, A, and D), represent Transit, On Us, Amount, and Dash.					

Template Characters

Note: OCR templates default to eight digits, no check character.

A.3.15.3 To Add an OCR Template

There are four main steps required for creating an OCR template. Below them follows detailed descriptions and examples of specific situations that require precise programming of the coding strings.

- 1. Turn on the OCR font to be read.
- 2. Begin building the template. Scan the Enter OCR Template symbol.
- 3. Scan the characters for the string.
- Exit OCR Template Editor Scan Save OCR Template to save your entries. Discard OCR Template exits without saving any OCR Template changes.

A.3.15.4 Scanning Characters

Use the Template Characters chart to determine what characters are needed to create the required format. Use the OCR Programming Chart (after the Sample Codes in the back of this manual) to scan the characters for the template.

Example: It is required to read any combination of *eight* digits. The template should be:

ddddddd

To create this template, first enable the OCR-A font. Scan the **Enter OCR Template** symbol, and then scan the *d* from the OCR Programming Chart in the back of this manual eight times. Scan **Save OCR Template**. This would let you read any string of eight digits, for example:

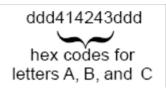
37680981

A.3.15.5 Character Match Sequences

On the ASCII Conversion Chart (Code Page 1252), page A-4, find the Hex value that represents the character(s) to match. Use the Programming Chart (inside the back cover) to scan the numbers that represent these characters.

Example: It is required to read *three digits, three specific characters* like "ABC" and then *three more digits*.

The template would be:



To create this template, enable the OCR-A font. Scan the **Enter OCR Template** symbol. Scan the **d** from the OCR Programming Chart three times. Then scan **414243** from the inside back cover (the hex characters for "A," "B," and "C"), and scan the **d** three more times. Scan **Save OCR Template**.

This would read any string of *three digits*, then "ABC," then any string of *three digits*, for example:

551ABC983

A.3.15.6 Adding Spaces

You may also need to put spaces in your template.

Example: You need to read *three digits*, space, *three specific characters*, like "ABC," a *space*, and *three more digits*. The template would be:

```
ddd2041424320ddd
↓ ↓
hex code for a space
```

To create this template, enable the OCR-A font. Scan the **Enter OCR Template** symbol. Scan the **d** from the OCR Programming Chart three times, and then scan **2041424320** from the Programming Chart (the hex characters for "space," "A," "B," "C," "space"). Scan the **d** three more times, and then scan **Save OCR Template**. This program will read any string of *three digits, space, "ABC," space*, and then any string of *three digits*. For example:

551 ABC 983

Note: If using Quick * View to program, use the space bar to designate a space and not the hex value of 20.

A.3.15.7 Stringing Together Multiple Formats (Creating "Or" Statements)

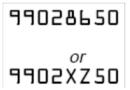
To program the imager to accept and recognize many OCR formats, it is necessary to string together each format beginning with a "t." This unit commands the imager to read optical characters that match any one of the formats in the template.

Example: To read any combination of *eight digits*, **or** a combination of *four digits*, *two uppercase letters*, and *two digits*.

The template would be:

dddddddddddlldd

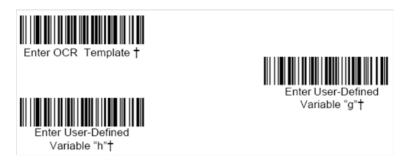
To create this template, enable the OCR-A font. Scan the **Enter OCR Template** symbol. Scan the **d** from the OCR Programming Chart *eight* times, then scan the **t** to create the "or" statement. Then scan the characters for the second template. Scan **d** four times, scan **l** two times, then scan **d** two more times. Scan **Save OCR Template**. This would let you read either type of format, for example:



It is possible to string together as many templates as are required.

A.3.15.8 OCR Template Codes

Note: Reading more than three rows of OCR is not recommended. Contact the factory if you have an application that requires reading four or more rows of OCR.



[†] One or more two-digit numbers and *Save* are required after reading this programming symbol. (*Refer* to the Programming Chart on the inside the back cover of this manual.)

Exit Selections



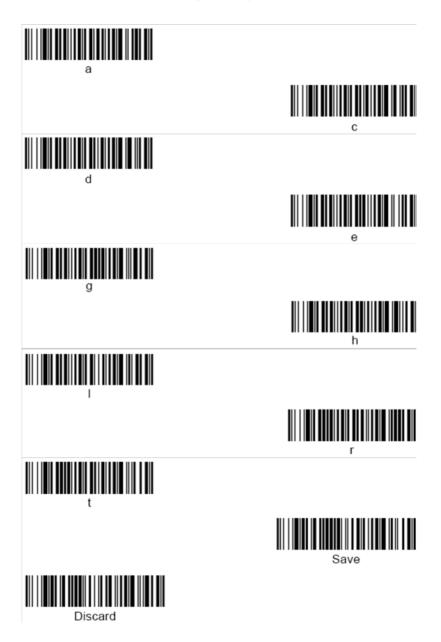


Dec.	Hex	Char	Dec.	Hex	Char	Dec.	Hex	Char	Dec.	Hex	Char
128	80	€	160	A0		192	C0	À	224	E0	à
129	81		161	A1	i	193	C1	Á	225	E1	á
130	82	,	162	A2	¢	194	C2	Â	226	E2	â
131	83	f	163	A3	£	195	C3	Ã	227	E3	ã
132	84		164	A4	α	196	C4	Ä	228	E4	ä
133	85		165	A5	¥	197	C5	Å	229	E5	å
134	86	†	166	A6	ł	198	C6	Æ	230	E6	æ
135	87	‡	167	A7	§	199	C7	Ç	231	E7	ç
136	88	î	168	A8		200	C8	È	232	E8	è
137	89	‰	169	A9	©	201	C9	É	233	E9	é
138	8A	Š	170	AA	<u>a</u>	202	CA	Ê	234	EA	ê
139	8B	(171	AB	«	203	СВ	Ë	235	EB	ë
140	8C	Œ	172	AC	7	204	CC	ì	236	EC	ì
141	8D		173	AD	-	205	CD	Í	237	ED	í
142	8E	Ž	174	AE	®	206	CE	Î	238	EE	î
143	8F		175	AF	-	207	CF	Ï	239	EF	ĭ
144	90		176	B0	۰	208	D0	Ð	240	F0	ð
145	91	4	177	B1	±	209	D1	Ñ	241	F1	ñ
146	92	2	178	B2	2	210	D2	Ò	242	F2	ò
147	93	66	179	B3	3	211	D3	Ó	243	F3	ó
148	94	73	180	B4	1	212	D4	Ô	244	F4	ô
149	95	•	181	B5	μ	213	D5	Õ	245	F5	õ
150	96	-	182	B6	¶	214	D6	Ö	246	F6	Ö
151	97	—	183	B7	•	215	D7	×	247	F7	÷
152	98	~	184	B8		216	D8	Ø	248	F8	ø
153	99	тм	185	B9	1	217	D9	Ù	249	F9	ù
154	9A	Š	186	BA	_	218	DA	Ú	250	FA	ú
155	9B	>	187	BB	»	219	DB	Û	251	FB	û
156	9C	œ	188	BC	1/4	220	DC	Ü	252	FC	ü
157	9D	D	189	BD	1/2	221	DD	Ý	253	FD	ý
158	9E	Ž	190	BE	3/4	222	DE	Þ	254	FE	þ
159	9F	Ÿ	191	BF	i	223	DF	ß	255	FF	ÿ

ASCII Conversion Chart (Code Page 1252)

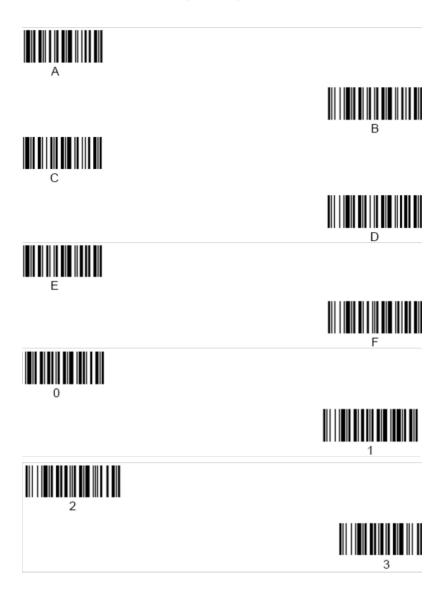
Dec.	Hex	Char	Dec.	Hex	Char	Dec.	Hex	Char	Dec.	Hex	Char
128	80	€	160	A0		192	C0	À	224	E0	à
129	81		161	A1	i	193	C1	Á	225	E1	á
130	82	,	162	A2	¢	194	C2	Â	226	E2	â
131	83	f	163	A3	£	195	C3	Ã	227	E3	ã
132	84	17	164	A4	α	196	C4	Ä	228	E4	ä
133	85		165	A5	¥	197	C5	Â	229	E5	å
134	86	†	166	A6	1	198	C6	Æ	230	E6	æ
135	87	‡	167	A7	§	199	C7	Ç	231	E7	ç
136	88	•	168	A8		200	C8	È	232	E8	è
137	89	‰	169	A9	©	201	C9	É	233	E9	é
138	8A	Š	170	AA	<u>a</u>	202	CA	Ê	234	EA	ê
139	8B	(171	AB	«	203	СВ	Ë	235	EB	ë
140	8C	Œ	172	AC	٦	204	CC	ì	236	EC	ì
141	8D		173	AD	-	205	CD	Í	237	ED	í
142	8E	Ž	174	AE	®	206	CE	Î	238	EE	î
143	8F		175	AF	-	207	CF	Ï	239	EF	ĭ
144	90		176	B0	۰	208	D0	Ð	240	F0	ð
145	91	•	177	B1	±	209	D1	Ñ	241	F1	ñ
146	92	1	178	B2	2	210	D2	Ò	242	F2	ò
147	93	85	179	B3	3	211	D3	Ó	243	F3	ó
148	94	13	180	B4	1	212	D4	Ô	244	F4	ô
149	95	•	181	B5	μ	213	D5	Õ	245	F5	õ
150	96	-	182	B6	ſ	214	D6	Ö	246	F6	Ö
151	97	_	183	B7	•	215	D7	×	247	F7	÷
152	98	~	184	B8		216	D8	Ø	248	F8	ø
153	99	тм	185	B9	1	217	D9	Ù	249	F9	ù
154	9A	Š	186	BA	_	218	DA	Ú	250	FA	ú
155	9B	>	187	BB	»	219	DB	Û	251	FB	û
156	9C	œ	188	BC	1/4	220	DC	Ü	252	FC	ü
157	9D		189	BD	1/2	221	DD	Ý	253	FD	ý
158	9E	ž	190	BE	3/4	222	DE	Þ	254	FE	þ
159	9F	Ÿ	191	BF	i	223	DF	ß	255	FF	ÿ

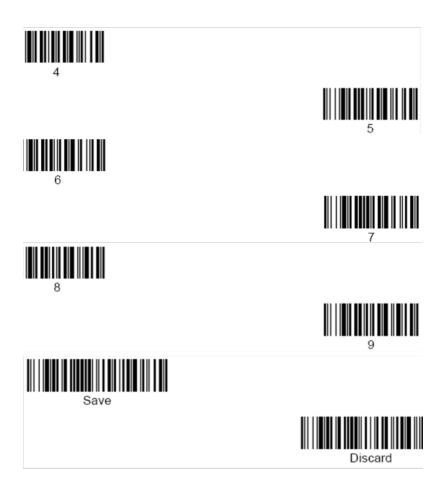
ASCII Conversion Chart (Code Page 1252)



MARS-1030 User Manual

Programming Chart

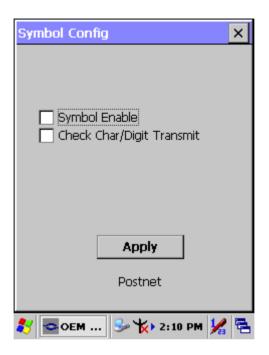




Symbol Config X
Symbol Enable
Min 1 - Max 275 -
Apply
PDF417
🐉 🔤 ОЕМ 🎐 🏠 2:09 РМ 🧏 🖷

Item	Explanation
Symbol Enable	Enable this barcode.
Message Length	The minimum and maximum length ranges for the barcode are 1 - 2750.

A.3.17 Postnet



Item	Explanation
Symbol Enable	Enable this barcode.
Check Char/Digit Transmit	The scanner can only read US Post- net bar codes printed with a check character, and will transmit this char- acter at the end of the scanned data.

A.3.18 QR Code

Symbol Config	<
Symbol Enable	
Min 1 - Max 350 - Apply QR Code	
🎝 🔤 ОЕМ 🦻 🦕 2:10 РМ 🏒 🤅	2

Item	Explanation
Symbol Enable	Enable this barcode.
	The minimum and maximum length ranges for the barcode are 1 - 3500.

A.3.19 Reduced Space Symbology

Symbol Config	×
 ✓ RSS Expanded Enable ✓ RSS Limited Enable ✓ RSS 14 Enable 	
Min 4 📩 Max 74	-
Apply	
Reduced Space Symbology	,
教 🔤 ОЕМ 🞐 🏠 2:10 РМ	1

Item	Explanation
RSS Expanded Enable	Enable RSS Expanded code.
RSS Limited Enable	Enable RSS Limited code.
RSS 14 Enable	Enable RSS 14 code.
Message Length	The minimum and maximum length ranges for the barcode are 4 - 74.

Symbol Config	×
 Symbol Enable Check Char/Digit Transmit Enable 2 Digit Addenda Enable 5 Digit Addenda Addenda Required Include Addenda Separator Send Number System 	
Apply	
UPC-A	
🐉 🔤 ОЕМ 🎐 🏠 2:10 РМ 🎉	1 🔁

Item	Explanation
Symbol Enable	Enable this barcode.
Check Char/Digit Transmit 🔽	The output of the check digit at the end of the scanned data.
Enable 2 Digit Addenda	Option allows decoding and outputting of a 2 digit addendum at the end of all scanned UPC-A data.
Enable 5 Digit Addenda	Option allows decoding and outputting of a 5 digit addendum at the end of all scanned UPC-A data.
Addenda Required	Only reads UPC-A barcodes that have addenda.
Include Addenda Separator	When this feature is selected, the data is output with a space between the data from the main barcode and the data from the addenda. When turned off, there is no space.
Send Number System	Transmits the numeric system digit of a UPC symbol.

Symbol Config X
 Symbol Enable Check Char/Digit Transmit Enable 2 Digit Addenda Enable Expanded UPC-E Enable 5 Digit Addenda Addenda Required Include Addenda Separator Send Number System
Apply UPC-E
🐉 🥃 ОЕМ 😌 🏷 2:11 РМ 🖌 🖷

Item	Explanation
Symbol Enable	Enable this barcode.
Check Char/Digit Transmit 🔽	The output of the check digit at the end of the scanned data.
Enable 2 Digit Addenda	Option allows decoding and outputting of a 2 digit addendum at the end of all scanned UPC-E data.
Enable Expanded UPC-E	Enable UPC-E Expanded code.
Enable 5 Digit Addenda	Option allows decoding and outputting of a 5 digit addendum at the end of all scanned UPC-E data.
Addenda Required	Only reads UPC-E barcodes that have addenda.
✓ Include Addenda Separator	When this feature is selected, the data is output with a space between the data from the main barcode and the data from the addenda. When turned off, there is no space.
Send Number System	Transmits the numeric system digit of a UPC-E symbol.

MARS-1030 User Manual

Symbol Config X
 Enable UPC-E1 Check Char/Digit Transmit Enable 2 Digit Addenda Enable Expanded UPC-E Enable 5 Digit Addenda Addenda Required Include Addenda Separator Send Number System
Apply
UPC-E1
🐉 🔤 ОЕМ 🎐 🏠 2:11 РМ 🧏 🖷

Item	Explanation
Symbol Enable	Enable this barcode.
Check Char/Digit Transmit 🔽	The output of the check digit at the end of the scanned data.
Enable 2 Digit Addenda	Option allows decoding and output- ting of a 2 digit addendum at the end of all scanned UPC-E1 data.
Enable Expanded UPC-E	Enable UPC-E Expanded code.
Enable 5 Digit Addenda	Option allows decoding and output- ting of a 5 digit addendum at the end of all scanned UPC-E1 data.
Addenda Required	Only reads UPC-E1 barcodes that have addenda.
✓ Include Addenda Separator	When this feature is selected, the data is output with a space between the data from the main barcode and the data from the addenda. When turned off, there is no space.
Send Number System	Transmits the numeric system digit of a UPC-E1 symbol.

Symbol Config	×
Symbol Enable	
Apply ISBT	
🦺 🔤 ОЕМ 🎐 🏠 2:11 РМ 🍹	1

Item	Explanation
Symbol Enable 🔲	Enable this barcode.

A.3.24 British Post

Symbol Config	×
Symbol Enable	
Apply	
British Post	
🦹 🔤 ОЕМ 🎐 🏌 2:11 РМ 🎉	1 🖬

Item	Explanation
Symbol Enable 🔲	Enable this barcode.

A.3.25 Canadian Post

Symbol Config	×
Symbol Enable	
Apply	
Canadian Post	
🦹 🔤 ОЕМ 🎐 🏷 2:11 РМ 🎉	1 🔁

Item	Explanation
Symbol Enable 🔲	Enable this barcode.

A.3.26 Australian Post

Symbol Config	×
Symbol Enable	
Apply	
Australian Post	
🐉 🔤 ОЕМ 🞐 🏠 2:15 PM 🖇	1 🔁

Item	Explanation
Symbol Enable	Enable this barcode.
Send Bar 🔲 Width Data	Australian Post is a 4-state symbology that was designed with a non-defined user area. The user can define how that area field is interpreted. Most systems have dedicated decoders that will not decode a symbology that is not already defined. If you select Send Bar Width Data, the bar levels will be outputted (0 - 3 for the four states) so that the receiving device can decode appropri- ately.

Symbol Config	×
Symbol Enable	
Min 4 🔺 Max 48 🚣	[
IATA 2 of 5	
🐉 🔤 ОЕМ 🎐 🏠 2:15 РМ 💃	٩.

Item	Explanation
Symbol Enable	Enable this barcode.
Message Length	The minimum and maximum length ranges for the barcode are 1 - 48.

A.3.28 Codablock F

Symbol Config	×
Symbol Enable	
Min 1 📩 Max 204 🛨	[
Apply	
Codablock F	
🦹 🔤 ОЕМ 🞐 🏠 2:15 РМ 🧏	٩.

Item	Explanation
Symbol Enable 🔲	Enable this barcode.
	The minimum and maximum length ranges for the barcode are 1 - 2048.

A.3.29 Japanese Post

Symbol Config	×
Symbol Enable	
Apply	
Japanese Post	
教 🔤 ОЕМ 🎐 🏠 2:16 РМ 🐓	1 🔁

Item	Explanation
Symbol Enable 🔲	Enable this barcode.

A.3.30 Planet Code

Symbol Config	×
Symbol Enable	
Apply	
Planet Code	
🐉 🔤 ОЕМ 🎐 🏠 2:16 PM 🖇	1

Item	Explanation
Symbol Enable 🔲	Enable this barcode.
Check Char/Digit Transmit 🔲	The scanner only reads Planet bar- codes printed with a check character, and transmits this character at the end of the scanned data.

A.3.31 KIX (Netherlands) Post

Symbol Config	×
Symbol Enable	
Apply KIX (Netherlands) Post	
🎝 🔤 ОЕМ 🦻 🦕 2:16 РМ 🕽	1 🔁

Item	Explanation
Symbol Enable 🗖	Enable this barcode.

Symbol Config X	
Symbol Enable	
Check Char/Digit Transmit	
Min 4 📫 Max 48 🛨	
Apply	
MSI	
鸄 🔤 ОЕМ 🎐 🏷 2:22 РМ ½ 🦷	

Item	Explanation
Symbol Enable	Enable this barcode.
Check Char/Digit Transmit 🔲	The scanner only reads MSI barcodes printed with a check character, and transmits this character at the end of the scanned data.
Message Length	The minimum and maximum length ranges for the barcode are 4 - 48.

A.3.33 TCIF Linked Code 39

Symbol Config	×
Symbol Enable	
Apply TCIF Linked Code 39	
🍂 🔤 ОЕМ 🞐 🏌 2:22 РМ	1

Item	Explanation
Symbol Enable 🗖	Enable this barcode.

Symbol Config	×
Symbol Enable	
Min 4	Max 80 👘
Appl	у
Matrix 2	of 5
鸄 🔤 ОЕМ 🞐 🤸	• 2:22 PM 🧏 🖶

Item	Explanation
Symbol Enable 🔲	Enable this barcode.
Message Length	The minimum and maximum length ranges for the barcode are 1 - 80.

A.3.35 Korean Post

Symbol Config 🛛 🗙	
Symbol Enable	
Min 4 📩 Max 48 🛫	
Apply	
Korean Post	
教 🔤 ОЕМ 🎐 🏠 2:22 РМ 🖌 🖣	1

Item	Explanation
Symbol Enable 🔲	Enable this barcode.
Message Length	The minimum and maximum length ranges for the barcode are 2 - 80.